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63 FOLK

Discover new operating performance with International's Executive 750 citizens band transceiver. Turn the illuminated Channel Selector dial . . . transmit and receive on any one of 23 crystal controlled channels.

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*TM Borg Warner



ASTATIC



Vol. 4, No. 5

S. R. COWAN, KBI7182, PUBLISHER

May, 1964

the citizens band journal

300 West 43rd Street New York 36, 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 300 West 43rd Street, New York 36, N. Y. Telephone JU 2-4460. 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: 59, 300 WEST 43rd STREET, NEW YORK 36, N. Y.

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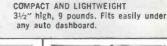
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Continuously tunable receiver picks up any of the 23 C-B channels. Tunes either by channel number or frequency.



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NEW LOW OFF #75*

READER MAIL

QUILTERS & SKIP WORKERS

Tom:

You were so right when you said that I would be swamped with responses for our "Skip Talkers Drinking & Quilting Society." You will be gratified to know that many notes received along with the QSL cards were along the line, "if it's good enough for S9, it's good enough for me." Grace R. Langlotz, KCI2290

Ruckersville, Va.

LOVE AND HISSES

Dear Tom:

It's sad that you should have such a closed mind to the ACBA, which, with proper direction, could benefit the whole CB world.

Francis Lally, ACBA Member #4380 Oklahoma City, Okla.

Editor:

As for the statement of Mr. Charles Messenger in your March "Reader Mail," in which he requested the Post Office Inspector to look into the finances of ACBA, he knew what he was going when he sent his dollar into the club. Let him ask for his dollar back if he is dissatisfied!

Paul H. Pitt, KDD6408 Gallatin, Tenn.

Editor:

Back the ACBA and help it become the organization that the majority of CB'ers want and need. Once this is done sit back and watch the profits roll in.

Otto J. Derra, KHD2114 Ludlow, Ill.

Tom:

I'm a member of the ACBA. So with respect to OUR club, please let us sink slowly without your glamorous burial!

Mickey J. Chapman, KHJ3354 Parchment, Mich.

Dear Tom:

Your magazine gets worse with each issue! I am a member of ACBA, so is my wife. I feel that you despise the ACBA so much is because it is not labelled "The Tom Kneitel National CB Organization." Did I hit the nail on the head?

You can rest assured that I won't be reading your trash box anymore. I've had enough of you and your so-called CB magazine. I know that you won't print this letter because we all know that you print only the nice ones.

Charles Howard, KDH1018 Tampa, Fla.

It's funny how, with each of the pro-ACBA letters we have received, no one has yet proved that any specific fact we have printed about the ACBA has been wrong! All we seem to get is considerable name calling and hot air. Anyway, if S9 is disliked by the ACBA so much, we can't be ALL bad! ACBA members, read S9, it's infuriating!

WHOOPEE! ! AT LAST!

Tommy:

Could it be that the "ACBA racket," which at first promised to be very profitable for a few people, was exposed and EXPLODED by S9?

Thomas E. Peifer, KHD0234 Decatur, Ill.

Dear Tom:

At first I couldn't see why S9 and ACBA couldn't get together. After reading over some of their "literature," it's pretty obvious that you were right all along. Everyone thinks that S9 is the greatest!

Sanford Greenberg, KCJ3772 Newark, N. J.

Dear Sir:

As a member of ACBA (of which I am not proud), I have followed your comments on this group with a great deal of interest. After all the hanky panky that has gone on down there I would say that they sure have a lot of questions to answer. C. J. Hendricks, KID5295

Greenville, Pa.

Gentlemen:

Down with the ACBA.

Warren C. Reynolds, KJ11346 Corry, Pa.

INVESTIGATION DEPT.

Sirs:

It was due to my reading your comments and information to ACBA that I was spared the loss of \$4 to their now dufunct CB HORIZONS. I have been stung by the loss of \$3.95 for a copy of their 1964 CB Call Book, for which I sent a check back in December, 1963, without even the courtesy of them acknowledging, let alone sending the book. I am writing this off to experience.

Cyril A. Wilson, KKA0488 Lynn, Mass.

Dear Sir:

I had sent for a subscription to CB HORIZONS in November of 1963. At the end of December, they had not sent an issue so I sent them a letter which they never answered. Several weeks later, I sent them a registered letter telling them to either send an explanation or a magazine. The following week I received a copy of a CB magazine I had never heard of and didn't buy.

> (name withheld) Babylon, N. Y.

Continued on page 77

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Watch for next month's big issue

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What's the latest in CB base station equipment? It's the Eagle by Browning — the outstanding receiver and transmitter duo that gives you the effective range and selectivity to make your base station the envy of CB'ers everywhere. Look at these new Browning Eagle features:

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Rear lighted selector dial.
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See the new Browning Eagle now at more than 175 authorized Browning Centers or write to the factory for complete specifications. Browning Laboratories, Inc., Department s9, 100 Union Avenue, Laconia, New Hampshire 03246.



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ACF-2 Two-crystal filter circuit using low impedance link input and 2K resistive output load. Unwanted sideband rejection greater than 30 db. \$9.95

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* Add-On-Circuit

International Crystal Mfg. Co., Inc. 18 North Lee, Oklahoma City, Oklahoma Please rush 1964 catalog.

FROM

INTERNATIONAL

ACF-4

WRITE

TODAY

YOUR

1964

CATALOG

FOR

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Address_

City_

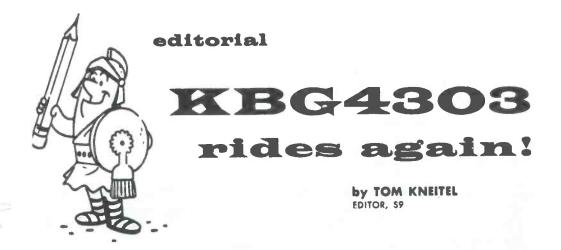
Zone___State

PLEASE PRINT



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S9-GUARANTEED Largest CB Circulation!



CHANNEL HAPPY

So it starts again—the letters asking, "What channel do they monitor in Oswego?" "... in Kalamazoo?" "... in Yazoo City?" and so on. These letters seem to flood in each year just before vacation time and put us behind the cue ball. We all know that Channels 9 and 15 are being monitored by *The Dixie Communicators* in the Atlanta area—but what about the many unpublicized monitoring channels? Who would dare venture a guess as to how many there are? Certainly not us!

This still doesn't solve the immediate problem of answering the hundreds of requests which we will be receiving within the next few weeks and throughout the summer. As the old King of Siam used to say, "Tis a puzzlement." So here's a chance for you to be of *direct* service to your fellow CB'ers-and also give us a hand.

Here is what we have devised in order to end the puzzlement. We ask that you please shoot us a card (OSL or postcard varieties are most suitable) and give us the following information: Your state, county, and the local standby/monitoring channel. Please indicate if the particular channel is monitored on a full or part-time basis by an organization such as REACT, sheriff, police, or whatever (please name the organization and callsign, if known). If the channel isn't regularly monitored on an organized basis, but is rather just a heavily used local monitoring and standby channel where friend traveler can usually be expected to raise someone at any hour, please mark the channel "popular use." Now, we do not neces-sarily want to know your own personal standby channel if it differs from the one(s) used by the majority of stations in your area-we just want to know the busiest channel(s). If you happen to also know the

foregoing information about counties other than your own, don't hesitate to send it along too. Canadians, please send us monitoring channels by province and *city*.

As soon as we compile enough of these channels to be of use, we will run a directory of them in S9. As additional channels are added, or as existing ones are changed, we will run supplements. If there is sufficient interest, we will work up a reprint for clubs to distribute free of charge to their members.

Anyway, as usual with things around here at S9, the success or failure of this project lies directly in *your* hands—don't count on the fellow down your street to send in the information, we've counted on him before and it didn't work out.

Send those cards right now so we can get right to work on presenting this to you and thousands of other CB'ers. Address to: "Monitoring Channels," % S9 Magazine, 300 West 43 St., New York, N. Y. 10036. Don't forget to include your callsign so that we can give you full editorial credit in S9.

MAL HOUM OOT

It seems to me that a very common complaint against CB'ers by neighbors is that we are "jamming" their tape recorders, electronic organs, phonographs, radios. Having heard some of the invaded tape recorders being operated while being "bombarded" by CB signals, I can attest to the fact that it is somewhat less than desirable to hear a bunch of "10-4's" emerging from a speaker system where Dave Brubecks' sounds are anticipated.

While poor old Joe CB'er generally bears the brunt of the wrath from the owners of

Continued on page 75

Write to our advertisers for special product news

WORK ALL 23... with PR Crystals

Channel jammed? Switch to another, and maybe still another. You've 23 channels to choose from ... and you can get famous PR Crystals immediately in any and all of those 23 frequencies. Get several sets today from your CB Dealer. He'll be glad to supply you with PRs, for he knows that these high-active crystals will help you get the most out of your transceiver. Yes, you'll get the strongest signal possible within power limits. That means maximum amplifier output,... greater distance... clearer reception.

TYPE Z-9R, TRANSMITTER CRYSTALS

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Type Z-13P — Transmitter Crystals \$2.95 Net

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| Same specifications as the transmitter crystals. Supplied for all 23 CB channels. Calibrated .005%. |
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EVERY PR CRYSTAL IS UNCONDITIONALLY GUARANTEED



Watch for next month's big issue

7-13

7-13P

CB Without Fuzz



HAVE THE POLICE STOPPED YOU YET? THEY PROBABLY WILL!

by ROBERT McAIRE, KIC7608

Several months ago (in the February issue of S9) we ran a letter from a Chicago CB'er who commented on the fact that the police have a rather annoying habit of harassing mobile CB'ers. This isn't any kind of master plot against us, but it is something which seems to be growing in national popularity on an isolated-case basis.

The probable reason is that in many areas it is "against the law to have a shortwave set in your car." We put this in quotes because that's usually the routine that the CB'er gets from the investigating gendarme. While it is a fact that there are some areas where ordinances are in effect which prohibit mobile receivers which are capable of receiving police transmissions, these laws certainly do not apply to your federally licensed CB transmitter and receiver (which don't receive police transmissions anyway). Of course, it's one thing for you to understand this, but it's another story when this

Besides FCC regulations, which require that one of these "Mobile Identification Cards" be affixed to your mobile rig, they are a good idea, if you are bothered by nosey police officers. The one shown here may be cut from the page and attached to the rig. UNITED STATES OF AMERICA FCC Form 452-C FEDERAL COMMUNICATIONS COMMISSION (March 1960) TRANSMITTER IDENTIFICATION CARD 1. Station call sign: 2. Name and Address of Permittee or Licensee:

The BIG Switch Is To S9

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must be explained to a cop (especially one you turn up while you're driving out-ofstate) who doesn't really want to hear your long involved tale of woe and explanation.

The author has been personally stopped a grand total of 3 times (once by the local boys and twice by out-of-state officers). Perhaps my experiences will save you some anguish, some time, and maybe even paying a fine at a "roadside courtroom."

FORTIFY YOURSELF

Possibly the *worst* thing you can do when faced with the above situation is to sit there, sheepishly, and sputter out some half-baked explanation. You've got to be "Johnny on the CB spot" with a quick reply-sure of yourself in the respect that you really know that you *aren't* doing anything wrong.

Even though you aren't required to, it's not a bad idea to have a photostat of your CB license in your wallet, ready for immediate whipping-out. Do not carry around the original copy of the CB license because that's supposed to be posted at your base station. The FCC does require that you have an executed Form 452-C affixed to your mobile rig. The 452-C is nothing more than an "ID" card for your rig, and these cards are available, free of charge, from any FCC office. If you wish, you may cut the Form 452-C out of this issue of S9 and attach it to your transceiver.

Another handy item would be one of the "EMERGENCY" signs we ran in the September, 1963, issue on page 22. By now these seem to have become "standard equipment" on CB mobile units in certain areas. They are available in decal form from Chuck Baer Enterprises, 6429-S5 North Glenwood, Chicago, Ill. 60626. Price is 2 for \$1--and they're well worth it. The signs explain, in a very few words, exactly what you've got going for yourself at the other end of your whip antenna. Most officers are auite satisfied at the explanation offered by these "EMERGENCY" signs and require no further details. This "EMERGENCY" decal should ward off inquisitive police officers. Actual size is larger than we show here.

DESK WORK

There are other things which you can do to ward off unnecessary police harassment while on a trip. You might alert your own local police department that you're on the move-tell them about your CB rig and advise them of your callsign. In the event that you really get yanked off the road by a rural Toody or Muldoon you can just ask him to contact your hometown police department. Of course, if you live in Chicago, New York, San Francisco, or any other large metropolitan area, you can forget about this gambit-the local police will be far too busy to worry about you and your CB rig. Come to think of it, if you happen to be chummy with the local police chief, you might ask him to furnish you with a letter explaining that you're not some kind of underworld electronics maniac.



BUZZ WARE

If you can contact any of the CB clubs along your route to let them know that you'll be passing their way, it could also be used as a mobile grief saver in a pinch. You could then contact them to vouch for you in the event of trouble.

You might find it handy to check, in adcance of your trip, any out of state laws which would bear upon mobile radiotelephone operation. In some states it is illegal to operate your transmitter while your vehicle is in motion and under your control.

While all of this might seem like far too much precautionary procedure than necessary, believe me that if it saves you the customary 2 hours of delay, \$15 to \$50 worth of fines, and any of the accompanying aggravation, it will be more than worth the trouble it takes.

Just a reminder, don't get flip with an out of town patrolman—the local boys might be willing to listen to you "sound off" but the road trap fellows won't be quite so receptive to any "lip." Be gentlemanly—it's probably half of the battle.



new! Courier 23



23 CHANNELS 23 FEATURES DUAL CONVERSION TRANSISTOR POWER SUPPLY

including all crystals, mounting brackets, power cords and noise-cancelling microphone

slightly higher west of Rockies Send for details . . . dealer inquiries invited

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Gentlemen: Please send all information concerning the COURTER 23.

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"MESSENGER" AND "MESSENGER TWO"—For mobile or base stations. High efficiency design makes full use of maximum allowable legal power. Excellent receiver sensitivity and selectivity. Automatic "squelch" control. 5 crystal controlled channels on the "Messenger" and 10 crystal controlled channels plus tunable receiver on the "Messenger Two".

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| 115 VAC/6 VDC \$169.95 Net |
| Cat. No. 242-163 |
| 115 VAC/12 VDC\$169.95 Net |
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"MESSENGER III"—Offers everything you ever wanted in a CB transceiver ... compact size, a husky signal, extreme sensitivity, razor-sharp selectivity—and complete flexibility for base station, mobile, public address, or battery powered portable use! Double conversion receiver—set-andforget "Volume" and "Squelch" controls—11 channel coverage—"Tone Alert" Selective Calling System available as accessory.

WRITE TODAY for full color brochure, or see your Dealer/Distributor and ask for a demonstration!



E. F. JOHNSON COMPANY

7025 TENTH AVE. S.W. . WASECA, MINNESOTA

CB To The Rescue

SEE-MORE HAMS IT UP

by THE OL' TIMER

All mat-teerial used in this here story is true and correct. Anybody takin' offense, or gittin' mad at it (either one) will be taken care of by a certain gent in Washington that is handy with his mits; if he ain't too busy cussin' out the commies or punchin' cattle.

The inter-estin' and informative conversations that is takin' place on the CB radio band these days is boostin' rayo set sellin' up over television, and it might even 'liminate television altogether. And small wonder! What could be more interestin' than knowin' that some guys is preparin' for mergency with coal-ineers and rescue teems. And how would we find this out if it wasn't for CB rayo, which gives us a chanced to hear it wid our own ears? The very thought of dis is wunnerful, to say nuttin' of what leckdrit inventions was bein' used back in world wars figgers one and two. I don't know how long things like this has gone on, an' I wouldn' even a knowed it now if it wasn't the wunnerful uses of rayo started durin' the cold war, which is now in progress.

Things is coming to a pretty pass an' everythink's changed. Instead of listnin' in to some nice music on da rayo. I gotta git news. I ain't had hardly no rest atall since da cold war started, an sometimes I wisht there weren't no such thing. Account of the adam bombs that is expected, I gotta git o' bed all hours and git dat news, git dat news, and git dat news, all time. An' if I don't git it, da world could come to end, adams could drop somewheres, da gov'mint could give out money or Bert Parks could rastle on television and I wouldn' be none da wiser. Sometimes I think worryin' over dem adams is gonna drive me nuts. Last week I dozed off between da news and dremt about night mares wid adams bombs droppin' ever'wheres wid me up a tree ontop a mountain where I couldn' git down. If it hadn' been for a guy that come along in a flyin' saucer, I'da still been up there.



A guy's life ain't worth a nickel around here no more! Anyways I gotta be ready and do everythink I can even if it kills me. I'm diggin' fox holes around in da back yard and I got buckets of sand settin' all over da joint. While I'm restin' I'm air raid warden, auxiliary policeman, 'mergency welfare worker, nurses aide, baby sitter an' dog walker. Ontop o' that I got a big sign in da woods dat will make da whole country safe! Da sign lights up an' says WASHINGTON D. C., do dem reds will drop adams there thinkin' they're gittin' da politicians; an' da rest of us will be safe. I got my house all lookin' like a Russian salt mine, painted wid camoflag. I even keeps swords in bed wid me jist in case them reds fine time to drop in of a sudden. Now if nuttin don't happen after I went to all dis trouble, I'm gonna be awful disappointed.

Other night da CB activity was fierce and I couldn' hear nuttin. so I tunes in short waves to da hams to see what dey was doin'. They was drillin' wid roll calls. One guy was bustin' up the whole thing givin' code lessons, but after while I could git a little of it. I listened to what schemes they was cookin' up an' what they was usin'. 'Mergency net controls din't had no traffic an' nuttin to report, so he wished to be excused. A fell' I think

The BIG Switch Is To S9



named Rogers Wilco or sumpin like that said they was havin' a 'mergency ham meetin' 8 oclock at da YMCA on the 14th; so I figgers on bein' there myself. Course I aint go no business at no ham meetin', but that din't make no difference as long as I keeps up on this 'mergency stuff.

When the 14th come, I was all set for da meetin', and headed for da YMCA buildin'. Jist so them hams wouldn' think I was no outsider. I wore my 'mergency helmet wid a CB sendin' and receivin' set inside, to prove I knowed somethin' about rayo. I carried extry ear phones wid spare tubes and battrees in my pockets jist in case anythink went bad. I knowed how to whistle CQ letters in code, so I runs into da YMCA buildin' whistlin' CQ, jist to make it look like I was a real rayo ham. Inquirin' at da desk, I was tole the amateur meetin' was up on da forth floor; so I runs upstairs whistlin' CQ. I loked all 'round and found a room wid a lotta fell's sittin' down. One tall ball' head guy with a beard was standin' up makin a speech. I wasn't sure if they was hams because some of 'em looked jist like normal human beins.

Sneakin' up quiet, so's I wouldn' interrupt nuttin' I whispers to da nearest guy. "Excuse me", I, says, "is iss da right time to ast a ser'ous question an' git throwed out?"

"Yeah!" said da guy, "What did you want to know?"

"Is iss de amateur meetin'?" I says.

"Yeah, come right in and have a chair," he said. Boy tilk about up on stuff, these hams was really up. They was about a hunnert years ahead of every ham I ever knowed of. Pictures of all da stars and da moon wid horoscopes and scorpians was stickin' all over da joint. It looked like they musta been makin' rayo contacks wid Venus an' Mars and lotsa places that is outa this world. They knowed more about da stars than Metro Goldwind Mair hisself, an' they was talkin' about planets too.

At first I din't ast too many questions because I din't want 'em to git to figgerin' I didn't know nuttin. I jist sat dare wonderin' what things was all about an' two guys give me books to look at. One fell' tole me he wrote da books. I din't look at the books right away because I wanted to be polite and make believe I was inter-ested in what da big ball' hed' guy was talkin' about. Besides I probbly wouldn' unnastan' no rayo book no way. Ever' onced in a while I figgered these guys must he some kinda nuts or maybe was cookin' up a new scheme for upper air rayo contacks. Anyways I figgered on humorin' em till I found out what was up.

"About 45 million lights, years ago", da big guy was sayin', "galaxies was bein' sent into da spectrum on different œfractions wavelengths", or sumpin like that. It was gittin' inter-estin', but I din't unnastan' it all because I come in too late. Some other fell's got up and tole what they knowed on da subject, an' I was gittin' ashamed because I was almost de only-ist one what hadn' said nothin'. I figgered them guys was gonna think I was a dope or wasn't no ham atall.

Makin' speeches is jist my meat! I always can give out wid a mean spiel, even if I said so myself. I hadda show them guys they wasn't so smart, so I stands up after while an' speaks to da crowd. "Gentlemens", I said, "I am glad at dis opportunity of speakin' to youse tonight on da recent chains of events dat brought on dose brilliant conclusions." Then I busts out wid some reg'lar ham talk like I picked up from listnin' in to 'em. I says. "I been usin' a pole up ontop my roof dat took four men to put it up there. Then we found out we got better results wid da wire jist hooked on da tin roof, so we took da pole down. Therryetically the set-up all boils down to this and stuff like that. And don't forgit ohms law there and all that. The co-tangereein multiplied by the cosigns there."

You shoulda saw them guys lookin' at me! There musta been 35 guys in da joint an' neither one looked like they knowed what I was talkin' about. They was watchin' me kinda queer like as if I was Christopher Columbus jist in from Egypt on ex'gurshion. The big ball' head' guy was stumped too I think, because he never said nothin' back to me. All he said was somethin' about a lecture on television from some college that was comin' on in a couple minutes. He turned on the television set there in da room but da pitures didn't come in good. They was jumpin' up and down so bad we couldn't see nuttin'.

"Jist a minute", I says, "lets have a look at dat set. Maybe we kin fix it."

"Do you know anythink about it?" asts da big guy.

"Sure," I says "youse is got da wrong faze inversion match up or a loose dis-connection. We gotta check da aerial". Then lookin' out da winder I seen da wires went out on a slantin' roof. Account of there was rain on there, I gits

14 • May 1964 • S9

S9-GUARANTEED Largest CB Circulation!

hold of a ladder and ties it to a chair wid some heavy twine s'os I could stand up on it, out on da roof.

What happened next was da most wunnerful thing I ever seen! I gits out on da roof and stands on da ladder which was tied to da chair inside da winder. I think da twine musta broke, because I started slidin' down da roof ontop da ladder. Boy, I picked up speed dat was terrific! I took off down an' done a double bucket roll, somerset an' hammerhead power off whip up stall, all in one. I seen a limb on a tree goin' by so I grabbed it. Da limb busted off an' I seen another limb comin' up, so I grabbed dat too, an' it busted off. I hit da ground feet first an' was knocked down on my back side. I bounced up and come down ontop my head. When I got up my feet felt like they was on fire. To cool off da feet, I walks to a creek and gits in with shoes an' all on.



I don't know how I got home, but next day da doctor said I had two sprained ankles. An' as I sits in da kitchen soakin' my feet and lookin' at da mornin' paper, I seen da followin':-

"The lecture of Doctor David Swanson, eminent astronomer, before the local amateur astronomers club at the YMCA was slightly interrupted last night by a CB operator who made a hasty but unexpected departure from the fourth floor window. The CB'er evidently had mistaken the astronomers meeting for the radio meeting that was taking place in another room in the same building."

Astronomers? Holy smokes! That ole ball' head' guy din't fool me for a minute. I knowed all da time he didn't look like no rayo ham!

As da silver fox said to da sour grapes, "A bird in da hand aint worth nuttin' so try, try again."



TRUE OR FALSE



- 1. Subscribing to S9 makes the editor rich.
- 2. Subscribing to S9 saves me all sorts of money.
- 3. S9 carries more pages of CB features than any other publication of any kind.
- 4. S9 is run by real live onthe-air CB'ers.
- 5. A Bugatti won the Grand Prix in 1937.
- 6. Alexander the Great's horse was named Bucephelous.

Answers: 1) False, S9 gets the same money whether you subscribe or buy from the newsstand, the only difference is that you save the profit of the newsdealer and distributor and we get a bigger subscription list to show to our advertisers. 2) Yup. You save \$1 over the one year newsstand price, \$3 over the two year cost. 3) Natch. 4) No other publication can make this claim. 5) Wrongo, it was won by a Mercedess Benz. 6) Right. Now fill out the envelope in the rear of this issue, enclose the loot, send it in fast!

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Spring has started to arrive and with it comes news of Jamborees being held in the States. If you have never been to a Jamboree you will not realize what you are missing. Try and make it to one close to you, they are not expensive and if on your holidays you will get to know more than your share of CB'ers from all parts of North America who will go out of their way to make them enjoyable. Maybe some of our clubs in Canada could get together and plan one for Canada's Centennial. Certainly I am sure that we will have more tourists visiting us who are interested in CB so it is something to think about.

The ASSOCIATION RADIO des ILES have written asking if news of their club could be published in both French and English, however this is not something that can be done on short notice, so let us know your feelings on this.

Charters seem to be on the upswing and it is on this theme that I will mention that the SOUTH WESTERN GENERAL RADIO ASSOCIATION has received a Provincial Charter. To the best of my knowledge they are the first in the Province of Ontario. As I mentioned last month this is a club to watch. They have a membership of 170 and it is growing at the rate of 17 members per month on the average, this is not mentioning clubs throughout Ontario who have affiliated with their Association. The club has been in full operation for about three years. I have been told that they have a new car decal, as soon as I receive one it will be shown. One humorous item was noticed in their bulletin. XM44-1403 Dr. C. Harry Roder felt that he shared the 11 meter band, not because he operated a CB set but because he uses a Diathermy Machine. Consequently he became a member. He now has a set (CB) and enjoys the interference with the rest of the members. You may write to XM44-1070 Peter Harding, Secretary, 26 Grosvenor St., London, Ontario for any information concerning their Association. From the SASKATCHEWAN CITIZEN RADIO

From the SASKATCHEWAN CITIZEN RADIO CLUB, I received a news clipping from The Saskatoon Star/Phoenix. The Secretary-Treasurer, Mrs. Esther Walsh, XM.3-4161 of 218 27th St., West, Saskatoon has an interesting hobby. She has been repairing old radios that have been donated and then they are presented to groups who need them, such as the Saskatoon Sanitarium and the Saskatoon Geriatric Centre. Since a small child, Esther has been interested in electronics and with supervision from her husband when she gets stumped she is now fulfilling that childhood interest. Congratulations, who said women CB'ers are not capable operators.

A new club is being formed in Peterhorough, Ontario and will be known as THE KAWARTHA G.R.S. CLUB. More on this club in the next issue.

In Belleville, Ontario, the TRI/COUNTY (G.R.S.) GROUP held their elections. XM48-039 Jim Brown, President. XM41-1055 Harry Roulston, Vice-President. XM-48-133 Keith Moore, Secreary. XM48-046 William Ironside, Treasurer. This club has been instrumental in starting the

by JOHN BURNUP, XM49-405 926B CUMMINGS AVE. OTTAWA, ONT., CANADA



Officers of London, Ontario's South Western General Radio Assoc. look over their provincial charter.

Peterborough club. I hope to get more news from this club in the future.

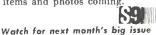
THE GOLDEN TRIANGLE (G.R.S.) RADIO CLUB in Ottawa, Ontario have been receiving a great deal of publicity from Radio Station CFRA and the Ottawa Citizen. They assisted in a search for two pre-teenage skiers lost in the Camp Fortune area. The search was very successful and a pair of grateful parents now appreciate the advantages of Mobile CB sets. The 10-4 CB Centre along with XM49-053 "Pete" Young, owner of Youngs Radio and Television offered their equipment and time for which the Club was very grateful.

This club is in the process of raising enough money to supply a Blind or Paraplegic person a CB unit to act as a club monitoring station. They feel this will also help in the rehabilitation of such a person. XM-49.651 Issie Hoffman is the Publicity representative for the Club and he is contacting all interested parties.

There is a move underway to adopt a Standard 10-code for Canada. The Golden Triangle (G.R.S.) Radio Club have adopted a National 10 code that has been used in the States. They hope that in time you will be able to go any where in Canada and not run into local codes as is now the case. I have seen the Code and find it very good, and it allows for clubs to include their own meanings that apply to their areas, without confusing a visitor. See the editorial in last month's issue of S9 for 10 code comments.

Well that's 10-98 for this month. Let's have some news. I understand that a manufacturer in the Ottawa area has come out with a two channel transmit and variable receive transceiver called a *Commander*. Sells for less than a hundred dollars. Under Canadian Regulations all sets must be approved by the Department of Transport, so we will see what develops.

Keep those club items and photos coming.





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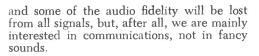


the STATIC SMASHER

SIMPLE DEVICE ELIMINATES MOST NOISE, IMPROVES S/N RATIO! by PHILIP NOLAN, KEA2905

Here's a variable bandpass filter which, when connected between the speaker and audio output transformer of your CB rig, will substantially filter background noises and local interference from static, neon signs, fluorescent lights, motors, ignition noises, etc. While this gadget will remove these unwanted signals, it will cause weak voice signals to suddenly *pop* out of the hash and become readable.

There must be a compromise, however,

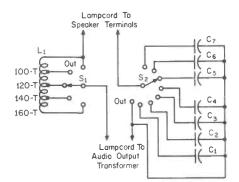


THE STATIC SMASHER

The STATIC SMASHER is operated by adjustment of the two switches, S_1 and S_2 , which are the high and low frequency attenuators, respectively. This is done while listening to a station buried 'neath the noise,



- C1 15 ufd (Centralab DD30-150)
- C₂ 10 ufd (Centralab DD30-100)
- C₃ 5 ufd (Sprague TVA 1203)
- C₄ 2 ufd (Sprague TVA 1301)
- C₅ 1 ufd (Sprague TVA 1300)
- C₆ 0.5 ufd (Sprague 2TMP50)
- C7 0.1 ufd (Sprague 2TMP10)
- L₁ 160 t. #18 enam. copper wire ¾" diam. on 1¼" long form. See text.
- S₁ 5 pos. non-shorting SP rotary (Mallory 3215J)
- S2 12 pos. non-shorting SP rotary (Mallory 32112J)
 6 x 5 x 4 chassis (Bud CU-3007A) lamp cord, knobs for switches.



Watch for next month's big issue

and the proper adjustment of these controls should produce the desired signal quality. For best results, the controls will have to be varied with each station tuned in.

CONSTRUCTION

Building the unit is a snap and should take only an evening's work.

The coil, L_1 , is wound on a $\frac{34}{2}$ wooden dowel about $\frac{112}{2}$ long and consists of 160 turns of #18 enameled copper wire. If you place cardboard discs at each end of the coil dowel, you will find that it will reduce the possibility of the coils slipping off the edge. When winding the coil, bring off taps at 100, 120, 140, and 160 turns.

The coil tap offs go to S_1 , a 5 position switch.

The seven capacitors may be of any type with better than a 25 volt rating. If electrolytics are used, it doesn't make any difference which polarity is which way. The capacitors are connected to S_2 , a 12 position switch.

For both S₁ and S₂, the "out" (off) position bypasses the STATIC SMASHER if you don't want to use the unit.

Because of the fact that the STATIC SMASHER removes part of the audio from the signal being received, expect that it will cut down the volume from the loudspeaker. This may be easily compensated by means of the volume control, if necessary.

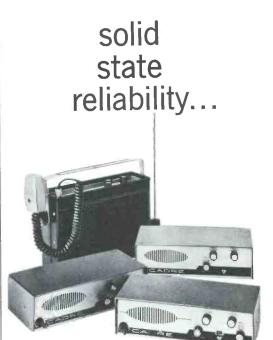
Connect the gadget to your transceiver with lamp cord.



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Solid state circuitry means that Cadre CB receivers can be bounced over rough roads in mobile installations; and can take plenty of rough use at base stations and in portable field use.

Solid state circuitry means that Cadre transceivers draw about as much power as an electric clock. Not only do auto or marine batteries last longer, but when batteries get low, Cadre solid state transceivers operate where others might not.

Reliability is only one reason why Cadre solid state CB transceivers are your best buy. Performance is another part of the story—plenty of transmission punch on 5 crystal controlled-channels—long distance reception with the dual conversion superhet receiver. And unwanted noise and adjacent channels are effectively suppressed.

FOUR POWERFUL SOLID STATE 5-WATT, 5 CHANNEL MODELS for every possible application—base station, mobile, field. New Cadre 510-A—AC/DC 23 channel manual tuning \$199.95. Cadre 515 same as 510-A less manual tuning \$185.00. Cadre 520 DC only with battery cable and mounting kit. For mobile and portable use from 12 volt batteries \$169.95. Cadre 525 model 520 in portable pack carrying case with builtin battery/power supply, recharger, AC cord and telescoping antenna for complete field portability. \$249.95.

FULL POWER, 1.5 WATT HAND HELD RECEIVER CADRE C-75 Solid-state throughout. Two crystal controlled channels. Sensitive receiver, powerful transmitter with one watt output to the antenna. \$99.95. Recharger and set of (2) nickel-cadmium batteries. \$28.05. Cartridge for (9) penlite cells. \$2.55.

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- VSWR 1.5:1 or BETTER OVER ENTIRE BAND.
- Feed Point Impedance-

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- Assembled Weight 8 POUNDS.
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- Number Radials THREE.
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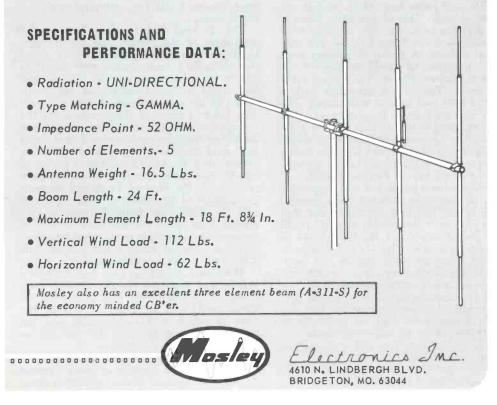
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IS CB LEGAL?

A LAWYER DISCUSSES THE FCC'S "RIGHTS"

by MAURICE J. HINDIN, W6EUV

The use of the very low power for citizens band radio service has raised a question in the minds of some operators as to whether or not the service is really one which is engaged in interstate commerce. The question has been answered in the courts of law. Regardless of power, all radio transmissions are legally in interstate commerce. The precedent setting case arose long before citizens band operations were authorized.

While, of course, statutory law has provided the framework for the development of radio, it is the case law which provided the color and precedent which rounds out the law of radio. One of the early cases of major importance in the field of radio communication arose in Texas in 1934. The case arose as follows: A group of persons com-menced operation of a radio station without a Federal license. The station was operated in Houston, Texas, and operated with a power of only two to four watts input. The station operated on a frequency of 1310 kilocycles, which was at that time a clear channel. The Government brought an action in the United States District Court to enjoin and prevent the station from being operated since it did not have a Federal license.

The defendants presented two arguments which, to that time, had not been decided by any court. The first argument was that the signal which the station emitted could not be heard outside of the boundaries of the State of Texas. The second argument was that since no other station had been assigned the frequency upon which the station was broadcasting, the station did not violate any requirement of the Federal law. This station, therefore, contended that the Federal Government had no authority to legislate except as to interstate commerce, and that the station was not operating in interstate commerce.

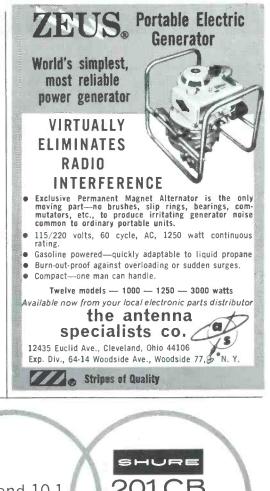
The importance of this case can be readily understood when it is realized that the very authority for the Federal Radio Acts must be found in the Constitution of the United States itself. This constitutional authority is found in the provisions of the Constitution which authorize and empower the United States to make laws relating and affecting interstate commerce and commerce with foreign countries. If the court held, as the station contended, that this station was not engaged in interstate commerce, then the Government would have no constitutional authority to pass or enforce laws relating to such radio stations which were not engaged in interstate commerce, but which were confined solely to operation within a single state.

The Federal Court, after hearing the arguments of the station and the Government, made a monumental ruling. It ruled that all radio communication was interstate commerce, whether or not the station's sig-nals could be heard outside of the boundaries of the state wherein it was situated. The Court arrived at this decision on the theory that while the station in question could not itself transmit a signal that could be heard outside of the State of Texas. nevertheless, it would constitute a source of interference with the reception of signals coming into the State of Texas and originating outside of the State of Texas. Thus, it said, in effect, that both the reception of signals from outside of the State as well as transmission of signals constituted interstate commerce and, as such, it was properly the subject of Federal regulation.

The Court, therefore, held that a Federal license was required by the station, even though its power output was so low that its signal could not be heard outside of the state in which it was operating, and the Government won the case and secured an injunction against the station.

Prior to this time, serious questions had been raised as to whether or not a Federal license was required of stations which could not transmit a signal beyond the confines of a single state. Had the Court ruled that such transmissions wholly within the state were not activities in interstate commerce, the entire course of the law with reference to the field of regulation of radio transmissions might conceivably have been different from what it has developed. For those who may be interested in actually reading the Court's decision on this case, the name of the case is U.S.A. vs. Gregg, and the case is cited as 5 Fed. Supp. 848.

This case is particularly important because it was one of the first cases which declared the exclusive regulatory powers of the Federal Radio Commission, now called the "Federal Communications Commission," to regulate all phases of radio communication. There has been a tug of war of considerable magnitude between the state (and also local) governments and the Federal Government over regulatory powers. Numerous states have, from time to time, by the enactment of state laws, attempted to get a foothold in the field of radio. The Court decisions holding that radio is basically under the control of the Federal Government and not the state governments is, of course, the basis for a radio service such as citizens band radio.



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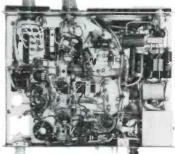
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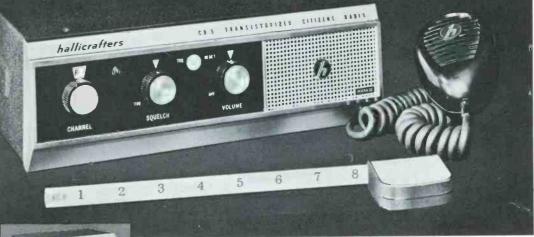
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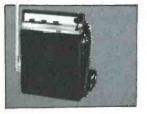


Meet the magnificent new transistorized CB-5 Mark II





P5-120 AC Power Supply. Slim matching pedestal for CB-5 MARK II. Size: $10\frac{14}{x} \times 2\frac{14}{x} \times 6\frac{3}{x}$. Optional at just \$44.95.



HA-14 Portable Pak. Either 1.5 or 5watt capability, depending on batteries. Two alkaline or single nickelcadmium-both types rechargeable. Fiber glass whip included.



Precision engineering throughout—and a genuine engineering breakthrough in noise immunity.

A high-performance citizens band transceiver, reflecting the most advanced and practical concept of transistor design.

An entirely new principle of noise suppression—the result of many months of experimental work—employing a new nickel alloy high-permeability toroid filter has virtually eliminated conducted noise pick-up.

Automatic series noise limiter improvements have cut radiated noise so dramatically that no external noise-stopping device is necessary.

Six crystal-controlled channels • Provision for HA-15 built-in selective call (optional at \$54.95, available now) • 100% modulation capability. **\$219.95.**

- SPECIFICATIONS

5 watts input; 100% modulation capability; 6 crystal-controlled channels; 1 μ v sensitivity for 10 db. S/N ratio; 45 db. adj. channel rej.; PTT ceramic mike; 6 kc. selectivity at 6 db.; 18 transistors, 9 diodes, 3 instant-heat transmit tubes.

If you're sold on tube equipment, the field-proven excellence of our eight-channel, dual-conversion CB-3A will be verified in detail by your CB dealer, \$159.95.





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www.americanradiohistory.com



Among the new CB gear this month is a superelete 23 channel base station from Browning Laboratories, Inc., 102 Union Avenue, Laconia, N. H. 03246. The new station, known as the "Eagle," consists of the *Eagle R-27* receiver and the *Eagle S-23* transmitter. The *Eagle R-27* features an RF gain control, a selectivity switch, a cascode Nu-



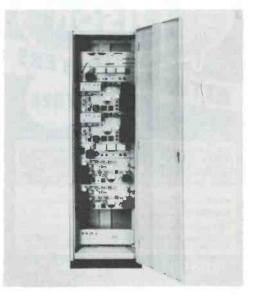
vistor front end, 12 tuned IF coils, plus many other "Browning special touches." The transmitter employs a compression amplifier and a clipper-filter stage for highest percent of modulation as well as all 23 channels and an SWR meter built in. The station sells, complete, for \$359. The company can supply you with further details and the name of a franchised Browning dealer in your area.

A transistorized inverter for operation of AC equipment from a 12 volt DC power source has been announced by GC Electronics, 400 S. Wyman St., Rockford, Ill. The compact power-pack features a built-in load control; it has no knobs to twist or adjustments to set. It is designed for continuous 100 watt duty, with 125 watts intermittent duty, taking its power from the vehicle's cigarette lighter. GC calls the inverter their Model 26-900.

Peninsula Electronic Company, 656 South First St., San Jose, Calif., offers their new 1964 catalogue, which contains 352 pages of electronic gear. The book is indexed in 4 ways, by product, by manufacturer, by new products, and by new industrial products. Copies are available from the company.

If you're interested in some fine products (and even finer prices) we suggest that you drop a QSL to our old friend Harry Zipkin, Sales Manager, Rego Insulated Wire Corp., 830 Monroe St., Hoboken, N. J. Their catalogue offers bargains in coaxial cables, TVI filters, lightning protection devices, coaxial connectors, generator noise filters, and more!

Budelman Electronics, a unit of General Signal Corp., 375 Fairfield Ave., Stamford, Conn., is now offering their type 17A4 CB frequency meter. It operates from self-contained batteries making it useful in the field as well as on the bench. Rated accuracy is 0.001% at room temperature. The instrument measures frequency deviation directly in kilocycles per second on a calibrated meter, and can be equipped with up to 4 crystals for measuring 12 CB channels. Complete information is available from the manufacturer.



For those of you who dig really BIG CB stations, how about this one, the Budelman Electronics



model 14AN and 14AW. This is a single channel, crystal controlled unit, which features push-to-talk or duplex operation (simultaenous transmit and receive, for which two channels are needed). Set puts out 3 watts with a frequency stability of 0.0005%. Receiver has a dual conversion superhet circuit. Before you run down to your corner CB shop and ask for one, we forgot to tell you that the model 14AN/14AW is not for Class D CB use, it is for Class A and B use in the 460 mc/s UHF band. The price? Don't worry about it, just think about a lot of zeroes and commas.

S9 Lab



THE e.c.i. COURIER 23



After a few years of checking over CB gear you can just about guess at the price of a rig by hearing about 5 or 6 of the set's features. Think you can play the game too? Well, this set has dual conversion, it comes complete with all crystals needed for 23 channel operation, it has a crystal synthesizer, a standby switch, a phone jack, a built-in public address system, a transistorized power supply, a noise cancelling mike, push-to-talk, combination "S" and RF meter, 12 VDC/110 VAC operation, and more. We think that you would agree that this describes a \$250 unit. We thought so too until we found out that the description fits e.c.i.'s new *Courier 23*, and the rig goes for \$189.50!

This is for real-and if there are any of these rigs on the air in your area, you have no doubt heard the respective owners paying them due tribute—because *Courier 23* really has PA-ZAZZ! It's a slick looking set, a dandy performer, and proves our old battle cry that a "winner" can *still* be turned out for a relatively low price; and *a winner* is about the best short description of the set we can come up with. If our enthusiasm seems to be carrying us away, please be patient—we don't get this way too often.

OTHER FEATURES

Besides offering the features mentioned previously, the *e.c.i. Courier 23* has a "fine tuning" provision which lets you tune 2 kc/s to each side of the channel to enable the receiver to sniff out off frequency stations.

In addition to the "extras," the rig has the now standard features of automatic noise limiting, floating gate squelch control, pi-network, a neon modulation indicator, automatic volume control, 9 tubes, 7 diodes (17 tube performance).

Now, while this set has many of the features you are used to in higher priced gear, it was not manufactured with the capability of being "souped up" to run higher than 5 watts input. The final tube is a good old-fashioned 6BQ5 which pumped 3.4 watts into our lab wattmeter (e.c.i. claims 3.2 watts in their literature). It was found, however, from on the air tests, that the *Courier 23* has quite a healthy amount of "talk power" in its modulator, and we were able to be copied through the most awful "junk" QRM which New York's busy ChanALL NEW 3 COLOR 1964 CB MAPS—Yes the famous red-on-white S9 map has been sold out. We've reprinted it in striking red and black on a gold background, big $8\frac{1}{2}$ " on 11" size, and on heavier paper too! You won't want to miss this CB value, and they will be gone before you know it. These are only 35¢ each, postpaid. Bulk orders of 10 or more, only 25¢ each. Order now! Send to: Wall Certificate, S9 Magazine, 300 West 43 St., New York, N. Y. (10036)



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We need used gear and we're trading high. What do you have and what do yoù want? If you are ready to switch to Business Radio with 10 to 150 wats of power this is your chance to trade in your CB gear for a good price. We handle all major brands of CB and AM Business Radio equipment.

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nel 11 could drum up. Everybody commented on the rig's fine "sound," as a matter of fact.

The receiver checked out on the test bench with a quarter of a microvolt sensitivity for 10 db signalto-noise ratio. IF frequencies are 6 mc/s and 455 kc/s and the manufacturer's claim of 3 kc/s selectivity was not double checked—adjacent channel signals were *not* heard on the set, however.

The only problem with the mobile installation we tried was some noise in the receiver. This was cured with a hash trap on the car's generator—and turned out to be the fault of an exceptionally noisy car rather than a deficient rig.

ALL IN ALL

By now you should be able to know that the *Courier 23* is a very exciting rig, a great value for the price, and something you will most certainly be hearing quite a bit about as it gets into full distribution.

Details from your nearest dealer or from e.c.i. electronics communications, inc., 325 North Mac-Questen Parkway, Mt. Vernon, N. Y. 10552. Here's a hint, if you address your request to Mr. Peter Robins at e.c.i, and mention S9, you'll get some special literature on the rig.



THE KNIGHT MODEL 10-2 CB TESTER

It's finally been done—someone's combined practically all the important CB test circuits in a reasonably priced test set. Allied Radio's Knight Model 10-2 Citizens Band Tester not only contains the most needed functions it's also easy to use—even for the newcomer to CB. No guesswork, no cross patching, no consulting the manual; a single clearly labeled function switch sets up the instrument for all tests.

Naturally, there's a power output meter (with dummy load) of average accuracy. Next, a modulation meter which indicates in *percent modulation* both the negative and positive modulation. (This function is important to those of you who use speech clippers, etc., since modulation boosters can often result in overmodulation unless they are adjusted with the aid of a *calibrated* modulation

Watch for next month's big issue

meter.) For critical monitoring, such as when testing for distortion, a headphone output is provided. In addition, there is an oscilloscope output for really critical measurements.

One difficulty the CB'ers often runs across is obtaining a signal source for testing speech amplifiers and modulators. Allied has recognized this need and has included an audio oscillator in the tester. Since the oscillator was already in the unit, key jacks were added so the oscillator can be used as a code practice oscillator (CPO).

The tester also includes a true standing wave ratio bridge (it is not a VSWR meter). Since a bridge circuit is used the SWR meter cannot be left permanently in the line; it is connected when adjustments are made and then must be disconnected.

The tester also includes a crystal activity checker which indicates crystal quality. In addition to the (more or less) standard crystal socket a miniature socket is provided for testing mini crystals, such as those used in walkie-talkies.

Since the crystal is checked while oscillating the crystal checker is also used as an RF signal generator. While the signal would normally be received via radiation, it is also available at an output jack, giving a whopping signal (should you need it). To insure that the signal generator doesn't get buried in a mess of heterodynes the internal audio oscillator modulates the RF generator.

For antenna measurement, or whenever field strength measurement are needed, a transistor amplified FSM is provided. With the built-in antenna extended full length the FSM's total sensitivity is



SONAR FS- 23 CITIZENS

BAND RADIO



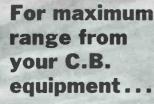
You can Hear and See the

Difference

In every field one manufacturer stands out above all others . . . in performance, dependability, engineering know-how, basic components . . . to present the finest product available . . . the Sonar FS-23.

Continuous one control channel switching • Low noise dual purpose transistor supply • Low noise Nuvistor receiver R.F. stage • Provisions of accessory VOX control and 2-tone squelch • High stability and frequency accuracy • crystal controlled receiver fine tuning • With mike, power supply cables and mobile mounting brackets. \$29995

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specify Au-gain's Gain Performance MARINE TOPPER Completely packaged - Ready to install

Hy-Gain's Marine Topper brings you optimum performance and maximum reliability from your Citizens Band equipment. Designed for mounting on any wood or fiberglas boat, it develops 1.5db of omnidirectional gain. The sleek, trim, high-flex stainless steel Marine Topper with its thin-line Topper capsule permanently encapsulated in polyethylene plastic is designed to operate independent of ground thus eliminating the need for radials or ground plane. Its overall height is 54 inches.

Over and above superior performance characteristics, the Marine Topper offers mechanical features galore – a "flick-of-the-wrist" quick-disconnect fitting for fast, easy removal of the antenna – a special molded high impact cycolac plastic mount designed to distribute strain over a large



area to prevent fatigue or damage to boat decks-rust and corrosion resistant materials and hardware throughout for lasting durability. It comes completely packaged, ready to install with Topper antenna, mount, quick-disconnect, PL-259 connector and 12 ft. of coax cable. Net weight, 3 lbs. Available from Hy-Gain Distributors the world over specify Hy-Gain Model TLMA **\$19.95** CB Net

Send for your copy of Hy-Gain's Citizen's Band Catalog...16 pages of performance-

Lincoln, Nebraska



packed antennas and accessories ...base station and mobile. HY-GAIN ANTENNA PRODUCTS CORP. 8590 N.E. Highway 6 sufficiently high to give a meaningful indication on just the transmitter's oscillator.

A long life 9 volt transistor radio battery (replacement cost about \$0.45) powers all amplifier circuits.

The tester is available in both kit (\$29.95) and wired (\$39.95) models; either way it's a good buy for the money. While, by contemporary standards, the kit is easy-to-build, it is not a beginners project. There are RF circuits which require careful attention to layout, and there are a few tight corners; while construction would be a "snap" to the experienced builder, the newcomer to electronic construction might get "hung up" on a few connections. We recommend that you should have built, at the least, one transistor project before tackling the kit.

In conclusion: without question, the Knight 10-2 CB Tester can be considered a "best buy."

TESTING THE LAFAYETTE HB-111



The chrome-trimmed look of the new Lafayette HB-111 transceiver matches the set's "hot" electronics performance.

The $\hat{H}B$ -111 (\$139.95) is the latest addition to Lafayette's modest-priced line (they have more expensive models); but though the *cost* has been kept down the performance is definitely up.

The all important receiver section is new. A double conversion IF with two stages of 455 kc. amplification results in about the sharpest selectivity the average CB'er can use. In practical terms, a strong signal of over S-9 on channel 10 will not interfere with channel 9 reception. Overall sensitivity is very good, and the receive audio quality is very clean. An adjustable squelch of average performance is provided, in addition to an excellent noise limiter.

The receiver is 23 channels variable tuned or 8 channels crystal controlled. To allow the user to *easily* compensate for component aging, a hole in the top of the cabinet permits access to the receive VFO inductor; adjusting the inductor corrects the dial calibration. To insure accurate calibration, or preset tuning, a crystal spotter is provided; when the Smeter peaks the receiver is tuned to the same channel as the selected transmit crystal.

The 8 channel transmitter utilizes a pi-net output matching 30 to 100 ohms—it delivered 3.2 watts into a 50 ohm load. The transmitter tuning, and crystal sockets, are accessible through a hatch in the top of the cabinet.

Continued on page 77

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S9-GUARANTEED Largest CB Circulation!

CB CHIT-CHAT

INDIVIDUALS AND CLUB MEMBERS!! SEND US ITEMS FOR THIS COLUMN!

Address correspondence to:

JOHN KREJC, KBI8077 **60 DIVISION AVENUE** GARFIELD, N. J.

New appointments to the A.P.R.E. program this month include: Gary A. Baker, KIC, 50 E. Fourth Street, Waynesboro, Penna; Mr. Robert Blakeley, 1918 Harbor Blvd., Costa Mesa, California. All clubs in this area should include Mr. Blakeley on their mailing list and also send him their meeting nights. coffee breaks, club channels, and any other information which may benefit your club. Mr. Blakeley will travel quite-some, and he needs all the information possible.

Attention all A.P.R.E.'s

Recently, through the efforts of S9, Club Editor, John F. Krejc, we can offer to the A.P.R.E. Staff, a choice of A.P.R.E. decals for your mobile, brief-case and etc. Also on the drawing boards is A.P.R.E. buttons, to show-off at Jamboree's, club meetings, and social events. Natu-rally, there is a small charge for the above. For further info contact: S9, Club Editor, John F. Kreic, KBI8077, 60 Division Ave., Garfield, New Jersey. See page 74, this issue.

EXTERIOR

On two occasions recently the "S9" Citizens Band On two occasions recently the "S9" Citizens Band Radio Group of Alaska, has assisted in fund raising drives. In November, the Spenard Lions Club, Spenard, Alaska, conducted a Telethon over KENI-TV, Anchor-age, for the purpose of raising \$14,000 for a Rescue Wagon. The "S9" club picked up contributions that were phoned into the Telethon Headquarters where a base station was set up to dispatch mobile units. More recently during a coffee call, at the Red Sails Inn, members of the 'S9' Group voted to assist the Junior Jaycees during their March of Dimes Telethon-Auction. This was a similar operation to that of the Lions Fund Drive and using the same principals, with the co-operation of KTVA-TV, a base station was set up in the KTVA-TV Studios, for a simulcast with KENI-TV. Starting at 11:00 p.m., January 31st, Billie (Mrs. Clyde) Bloker dispatched mobile units, for seven hours and 45 minutes to all points in the Anchorage and surrounding areas. During these two operations over 2500 miles as a public service. Monitor channel is "Lucky 13" with help for all in need. "S9" Citizens Band 49'ers CB Ass'n for keeping the air clear during the latest operation. Ray Williams, KJB0035.

PACIFIC

The Klamath Five-Watters Emergency Communications Service, Inc. of Klamuth Falls, Oregon have moved to channel 9 to avoid the crowded conditions now existing on channel 11. They will have 24 hour monitoring KFG0812. They have a new Ass't Communications Officer, Jim Yahne, and a new Area Control Station, Bill Harden, KFG2242. As the club is growing they have decided to meet twice each month beginning this past March, instead of only once as in the past. The new meeting dates will be on the second and last Thursdays of each month, 7:30 p.m., in the regular meeting room on the ground floor of the Court House. Beginning with the first meeting in March, they will be conducting classes in first aid. Meetings are always open to CB'ers in the area.

The Capital City Monitors, which organized in 1962, became affiliated with REACT, and was acclaimed the official REACT representative in Sacramento later the same year. The club incorporated in early 1963. The purpose of this unit, is to assist in public relations, and for the betterment of the CB'er. The club is also





Race Marshall for the Anchorage Fur Rendezvous; Orville Lake, dog musher; Sally Metcalf, KHJ4797, Secretary of the 49'ers; Dick Beno'd KJB0299, President of the 49'ers; John Knudsen, KJD0104, Member. The Alaska 49'ers CB Association has been very helpful in providing radio communications for the races through the years. The group has been working with the "Alaskan Sled Dog and Racing Association." Photo credit—Wally Metcalf, KHJ4797.

happy to say that it has its own deposit at the local blood bank, and were instrumental in getting a complete blood change for a Miss Carol Baker, 12 years of age, for heart surgery. The club meets once a month on the 4th Friday, in the auditorium of the Country Club Center, and visitors are welcome. President of the club is Wes Castros, KFC1382.

is Wes Castros, KFC1382. During the latter part of 1963, Idaho acquired a new, yet formerly trained rescue squad. The groups objective, as said in their By-Laws, "We give our aid and assist-ance within our capabilities to any or all bonafide agencies requesting our aid where there is a life in jeopardy, excluding assistance in the apprehension of criminal. "ALERT." (Associated Land Emergency a criminal. "ALEKT." (Associated Land Emergency Rescue Team) was a coordination effort of several pro-fessional groups, including Idaho CAP, the Owyhee County Mounted Sheriffs Posse and others. A large number of CB operators, including all of ALERT's officers, are active in the units membership, enabling ALERT excellent coverage in the mountainous area found in the state. Last fall the Treasure Valley Citizens Pand Club and ALERT orenzized a large communica-Band Club and ALERT organized a large communications practice covering much of Idaho. The Treasure Valley CB Club monitors channel 9, and in the event Valley CB Club monitors channel 9, and in the event of an emergency, all ALERT members carry on com-munications on their official unit channel, 14. ALERT officers are: President, Ed Wonacott, KFG1919; 1st Vice President, Ed Pefley, KFG1587; 2nd Vice Presi-dent, Paul Kimball: Secretary-Treasurer, Ruth Pefley, KFG1587; Communications officer, Walt Harrow, KFG1587; **KFF0764**

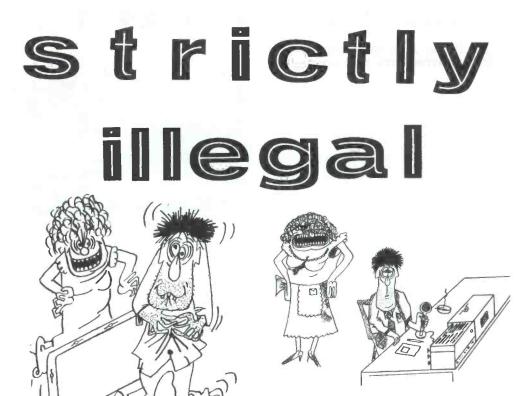
ATLANTIC

The Carolina Radio Club held their semi-annual elections with President, Roy Williamson, 6W6125; Vice President, Leonard Williams, KDD9656; Secretary, John Klonis, KDB3351, Unitl; Treasurer, Ken Morse, KDB-4663. Most members of the club have successfully completed a CD course in Shelter Management and Emergency Communications in cooperation with the Extension Division of the University of South Carolina. The club also plans to build a clubhouse.

COMING EVENT—National Grandfather Mountain CB Jamboree, June 12, 13, and 14th. Jamboree control monitor channel 11. Contact: CB Jamboree Committee, Box 362 Spruce Pine, North Carolina. COMING EVENT—The Cee Banders Radio Club of

Birmingham, Ala., is pleased to announce their forth-

Continued on page 67

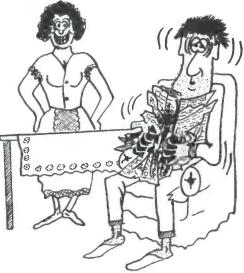


"Venezuelan QSO my eye, get in to supper! 10-4?"

"I burned all of those stupid DX cards. How's them for apples?"



"Here it is stupid-- 'CB operator falls off illegal 100 foot antenna onto 10,000 volt power lines' 1^n



"The band's open honey, why don't you CB for a while?"



CASEBOOK

by LEE AURICK, KCD5514 MT. PLEASANT RD. RFD 1 COLUMBIA, PA.

Not long ago an organization called VESU came to your reporters attention, and Mr. Jerome B. Schiller, 20W8450, was contacted for further information as to their activities, particularly as to how CB radio works for them.

Mr. Shiller kindly offered to provide the history of VESU, and S9 is happy to record here the dedicated efforts of the many civic minded people who contributed to this excellent organization, as well as the role that CB radio has played in its operation since the inception of the organization. VESU is presently under the command of Commander Charles T. Miller.

Mr. Schiller reports:

"In the fall of 1960, and with the full cooperation of all CB radio clubs in the Greater Pittsburgh area, Channel 20 of the Class D Citizens' Radio Service was established as the communications line between Survival Units of the Survival Officer Service of Civil Defense. It was our hope also to establish a CB emergency network for the entire Western Pennsylvania area contiguous to Allegheny County in cooperation with the active Civil Defense groups in those counties.

"The group from the Survival Officer Service who assisted in crowd and traffic control at the scene of multiple alarm fires, became known as the Volunteer Emergency Service Unit. As the effectiveness of the Unit became more apparent with each call, they were then asked to assist at the site of other activities where large crowds were expected.

"Since its formal reorganization in January, 1963, VESU has served in many ways: On August 3rd we were ordered by Civil Defense to handle communications for traffic and security controls in the wake of a devastating tornado in one of our suburbs. This we maintained for a full 24 hours without interruption until we were relieved by military and Pennsylvania National Guard personnel following our Governor's proclamation of a state of emergency at the request of Allegheny County Civil Defense.

"In January, 1963, the group became a separate entity, adopting the name Volunteer Emergency Service Unit of the City of Pittsburgh (VESU). Each member of the unit must meet very rigid standards of reputation and character, serve a thirty-day test period and complete a carefully planned training program on First Aid, Ambulance Attendance, Traffic Control, Medical Self Help, etc. A course in Cliff Rescue is set up for this spring to further equip each member to handle almost any emergency. The uniforms and equipment carried by each member is paid for by the member. Each VESU man has an investment of from \$200 to \$400, depending on the amount of equipment he possesses. Most VESU cars are equipped with a CB radio, 100 feet of 5/8" rope and a first aid kit. In addition, many have walkie-talkie units, and an assortment of tools that include shovels, picks, sledgehammers, and pry bars.

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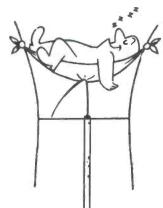
"Despite some ridicule around the CB band, and the usual assorted 'growing pains' of any organization, the value of VESU's service continues to grow and has gradually gained acceptance by City police.

"In November, 1963, the Unit was assigned its own call letters, KID9753. We have set up a 24-hour monitoring program, with mandatory participation required for all members. Channel 20 is used for all communications and VESU is most appreciative of the cooperation of other CB'ers in the area in keeping this channel open for urgent traffic.

On February 11, 1964, VESU members were presented special City of Pittsburgh badges by Assistant Superintendent of Police Lawrence J. Maloney and Inspector Thomas McNamara. In his address, Superintendent Maloney said he was amazed to learn that in one week in December the Unit had contributed over 159 combined man hours assisting in traffic control at multiple-alarm fires in the City of Pittsburgh. He extended to VESU the appreciation of Mayor Joseph Barr and the City's official family for our volunteer service. The Unit is now being called upon with great regularity by Pittsburgh police for assistance in crowd and traffic control as a supplement to the regular police force.



The BIG Switch Is To S9



ANTENNAS

by LEN BUCKWALTER, KBA4480

GIVEN ENOUGH ROPE

Phil Funk nervously stripped off the wraps from his new antenna. It was one of those gamma-matched T-square types. This antenna had fingers that curled around a passing signal, flicked it in like a Venus Fly Trap, then rammed the RF down the line. Anxious to be the first on his block to receive that fabulous and rare signal report— "Your signal is S-10"—Phil skipped outside and prepared to install his new antenna.

Up the steeply pitched roof went surefooted Phil. That is, until he reached out to grab some support—any support. Losing his balance for an instant he hovered between safety and salvation. Who won? The forces of gravity; Phil bumped, slithered and slid down the sharp slope and thudded into the posy patch. At last report he was still nursing a bent coccyx.

A moral? The steep roof is no place to be caught without some kind of safety aid. One of the simplest gimmicks for rough installations is the Tom Mix method. All you need is a long piece of rope. Tie one end somewhere near the side of the house, close to the chimney or other antenna mounting point. Now lob the other end completely over the roof peak. Fasten it down securely at the other side of the house. If you've ever watched Sir Edmund Hillary climb Mount Everest, you'll get the point fast. The rope makes a fine support you can cling to while rising to new heights.

HEIGHT AND RANGE

As any CB'er is aware, increasing antenna height means more range. But just how much more? The answer, of course, depends on the number of obstructions in the area, hills, nature of the terrain, etc. These vary so much that no definite mileage rating can be assigned to a particular antenna installation. There is, however, one factor that never changes (we hope). This is the curve of the earth. For each foot the antenna is raised, the signal can peak slightly further over the horizon. We'll forget, for a moment, considerations of power and obstructions to concentrate solely on how height affects distance.

If you park your mobile on top of Mount Wilson in California, range will be nearly 100 miles. One 5-watt transmitter we know of turned in a whopping performance not too long ago-22 million miles. Legal, too. It was aboard the space probe to Venus, launched last year. (An enviable record; more than 4 million miles per watt!) Getting back to earth, let's consider how these figures can be predicted in terms of daily CB operations.

There's a formula easily worked out by anyone who doesn't blanch at the sight of a square root. It takes into account how much the horizon appears to lower when transmitting and receiving antennas are elevated:

Range (in miles) = $1.23 (\sqrt{h_t} + \sqrt{h_r})$ Before you get up and watch Gunsmoke, here's a practical example. That h_t and h_r represent the height in feet of transmitting antenna is 36 feet up, the receiving antenna 25 feet off the ground. Plugging numbers into the formula:

> Range = $1.23 (\sqrt{36} + \sqrt{25})$ or 1.23 X (6+5)or 1.23 X 11or 13.5

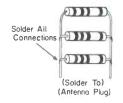
Range, therefore, may be considered 13.5 miles with the antenna heights given, and conditions of clear terrain.

ACCURATE LOAD

A No. 47 pilot lamp inserted in the antenna jack of the rig is a good dummy load for approximate checks on the transmitter. We should underline the word *approximate* since the glowing lamp is usually far from the 50or 52-ohm load presented by the transmission line and antenna. An easily constructed dummy load to closely duplicate action of line and antenna is in the accompanying sketch. It affords much greater accuracy than the hit-or-miss lamp.

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The unit is an arrangement of three carbon composition resistors, the most common type used in electronics. It is of utmost importance that wirebound resistors be avoided. Turns of wire in these types behave like coils and ruin the action. Carbon resistors, on the other hand, nicely provide the desired function; converting RF energy into heat while presenting the proper load impedance to the transmitter.



The resistors can be those "Little Devil" units by Ohmite, or the equivalent. Three are needed, each 150 ohms, each rated at 2 watts. Tolerance should be 5% and they'll cost 48ϕ a piece at current catalog prices. When these are wired in parallel, total resistance is 50 ohms. They'll meet the power requirement since the combination is capable of dissipating six watts (nearly double the output RF of most rigs). Some hints on construction: keep leads as short as possible to prevent inductive loops from forming; and allow a fraction of an inch spacing between resistor bodies to assure air circulation. (This prevents heat build-up if the dummy load is energized for any length of time.)

The arrangement will radiate a limited amount of signal to the surrounding area. To reduce it, the resistor assembly may be optionally mounted inside a metal can which is grounded to the rig's chassis. Just be sure to drill a dozen or so tiny holes in the can to allow air in, but not radiation out. A simple check is touching the resistors after they've been in operation for a few minutes. They should be just warm to the touch. And to keep the can from creating an undesirable capacity effect, it should be large enough to be well spaced from the resistors.

This unit, incidently, provides an excellent method for measuring the amount of RF watts the transmitter is able to deliver to a proper load. You'll also need a vacuum-tube voltmeter with an RF probe. By measuring voltage across the dummy load, simple Ohm's Law yields the amount of RF output power. The calculation is $P = E^2/R$. (E is the voltage measured by the meter, R is always 50, the resistance of the dummy load.) Some examples: 10 volts equals 2 watts, 12.2 volts equals 3 watts and 13.2 volts equals 3.5 watts.



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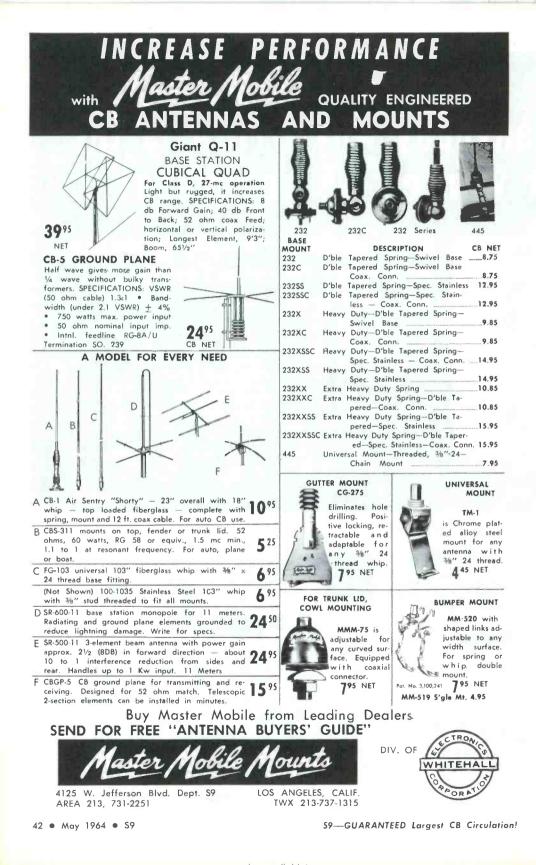
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SPECIAL BONUS 16 PAGE SECTION



Last month. in the first half of this article, we covered in detail the choosing, installation, and final hookup of your complete mobile rig, from transceiver to antenna. Now it's time to look at the finer points of mobile installation.

These points include the ever-present noise problem; the choice, installation, and use of accessory items; the special audio requirements of mobile operation; "batteryitis," the dead-battery problem which plagues mobile operators only; and finally (but far from least) the special responsibilities of the mobile operator.

Since any of these subjects could, in itself, provide material for a complete book, the treatment must of necessity be rather general in nature. However, enough detail is included so that you should have little difficulty in applying the data to your own mobile installations.

We'll assume that you have just completed installation of the mobile rig as described in the previous article—but the material is equally applicable to old installations as well, so don't turn the page hastily if your own mobile installation is several months old. You may still find the answers to some of your problems here.

Ready? Let's get with it.

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The Noise Problem

Noise and mobile radio just naturally go together, since the automobile is (from a radio standpoint) nothing but one huge noise generator and the mobile station is located inside it.

As a result, the noise problem is one to which in all probability no one will ever find a total answer (unless it's doing away with autos and going back to horses). However, with modern techniques it's not usually difficult to reduce the noise level to an acceptable value.

In fact, with only a little extra trouble you can usually obtain "broadcast-quality" reception of most stations, and for all practical purposes you can consider the noise problem solved, when this point is reached. But the extra noise imposed by mobile operation remains as a virtual "floor" which may keep you from hearing the weakest signals, those which come in around S-1 on your home station.

Mobile noise can be categorized in a number of manners. You can divide it into that originating in your own vehicle, and that from other cars. You can call it "impulse" and "discharge" noise. Or you can, as we do here, divide it into "ignition noise" and "noise from other sources."

The division into "ignition" and "other" follows no valid electrical reasons, but stems from the corrective measures necessary. Noise from the ignition system must be *contained* but can hardly ever be *eliminated*, since the ignition process itself results in a portion of the noise. If you can keep this noise bottled up so that it never gets to the radio, it works out to be the same as eliminating it. But the approach is different.

"Other-source" noise, on the other hand, can usually be eliminated or at least drastically reduced without impairing performance of the auto.

These differences in treatment are the reason for the division of our discussion into the headings we chose.

Ignition Noise

Ignition noise stems from a number of sources within the vehicle's ignition system. Among the major contributors are the spark plugs, the coil, and the distributor.

In general, whenever a current-carrying circuit is broken, a noise pulse will result. The more current flowing in the circuit, the stronger the pulse.

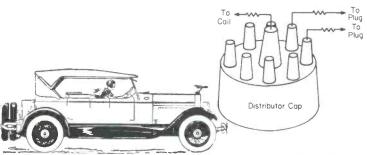
The conventional ignition system develops the high voltage necessary to fire the spark plugs by breaking the flow of current in the primary winding of the spark coil; this is a heavy flow of current, and the resulting noise pulse is a whopper indeed. It may reach an instantaneous amplitude of hundreds of volts.

The breaking of the current which produces this pulse is done by the breaker points in the distributor. The pulses will be produced at a rate equal to half the number of cylinders in the engine, times RPM. Thus, an 8-cylinder engine idling at 400 RPM would produce 1600 such pulses per minute, or almost 27 pulses per second. In the radio receiver, this sounds like a rapid corn-popping noise.

The high voltage from the secondary of the spark coil is distributed to the proper spark plug by the rotor arm of the distributor, and here again a noise pulse is produced. Finally, the spark plug fires, and it produces a third pulse.

The pulse at the spark plug is typically several thousand volts in strength, and in addition happens at the end of a rather long wire (the spark-plug cable) which can act like an antenna, so the spark-plug pulse usually bears the brunt of the blame.

This source of noise cannot be done away with while letting the engine continue to run. However, it can be bottled up to an amazing degree by using resistor plugs or, alternatively, a special suppression resistor at each plug. This confines the major part of the noise energy inside the motor itself, where it can't bother the radio.



Unfortunately, when the spark-plug noise is reduced in this manner the distributor and breaker-point noise remain in full strength, and so frequently little if any improvement is noticed after suppressing the plugs.

To apply the same treatment to distributor noise requires the addition of suppression resistors at the distributor cap as shown in the illustration.

However, suppression of the breaker-point pulse is a bit more difficult. At one time, I had considerable success by using a noise filter (surplus, equivalent to the Sprague "Filterol" unit) in the line between breaker points and spark coil. This required that the motor be retimed, but operation of the vehicle was then normal and the ignition noise simply disappeared.

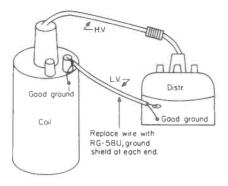
Until, one fine morning, the car simply wouldn't run.

Investigation showed that the noise filter had broken down under the high-voltage noise pulses, and was shorted out. This required my removing the filter and returning the engine to its original timing settings put the vehicle back in business—along with the original noise.

It appears that no commercial noise filter is capable of withstanding the punishment applied on this particular line, and so this approach isn't recommended. It's mentioned simply to show what *can* be done.

The most practical way to contain this noise pulse is to replace the existing wire between points and coil with a

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length of RG-58 coax, grounding the shield at each end. This will reduce the strength of the pulse radiated, and will keep it down to some degree in the radio.

This same approach, shielding, can also be applied to the ignition system as a whole. Some mechanics claim that noise suppression resistors hurt the performance of today's engines; such engines can be shielded, without any change to the ignition system. Nothing is really done about the actual amount of noise, but it's all bottled up where it can't bother the radio.

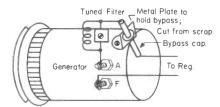
The simplest way to shield an ignition system is to purchase a commercial shielding kit and install it according to the directions furnished. These kits are not expensive, and they do work nicely. Frequently, a properly installed shielding system can reduce the noise level to the point that you can't detect any noise at all—more than this, you can't ask of any system.

Such kits are manufactured by Johnson, Hallett and Webster, among others.

For most installations, either suppression or shielding will take care of ignition noise adequately. Which brings us directly to the "other sources," which vary widely from vehicle to vehicle.

In most cars, the generator is a prolific noise source. As a rule of thumb, the generator armature should be bypassed to ground with a .01-mfd coaxial capacitor as close as possible to the terminal itself. Don't use an auto-radio bypass; these units are worse than useless at 27 Mc. Use another identical coax bypass unit at the battery terminal of the regulator. Opinion is divided about use of a resistorcapacitor network between the regulator field terminal and ground. This network is included in most commercial suppression kits, and has been recommended for years by many authorities. Others claim that it will reduce regulator life and should never be attached. Because of this controversy, it's best to try your installation both ways. If the R-C hookup seems to produce less noise, then you can leave it but be prepared to replace the regulator a bit more often than you otherwise would. If it makes no difference, take it off.

Tuned noise-filter traps are available to connect in the lead between the generator armature terminal and the regu-



lator. These can't hurt anything and frequently help. Shown here are instructions on how to hook one up in conjunction with the bypass capacitor already recommended.

When the ignition system and the generator/regulator system are both pretty well in hand, noise level should be far lower than when you started. From here, it's a matter of a lot of looking and a little luck. Dashboard gauges can produce noise. So can the tires, wheel bearings, the fenders or other body panels—in fact, almost anything.

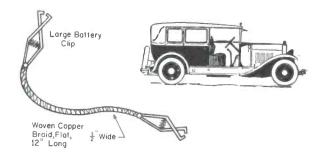
The only way to get it all out is to keep looking, and trying seemingly ridiculous things, until the noise goes away. To check the gauges, prepare a bypass capacitor as shown here. Hook it across the terminals of a suspected gauge and leave it there a few days. If the noise is reduced for this period, substitute another capacitor with identical lead lengths but minus the test clips, and move the test capacitor to another gauge.

To check the possibility of fenders, body panels, nufflers, etc., introducing noise, use the portable bonding strap shown here. Attach one clip to the suspected panel or metal object and the other to the frame, making certain that both bite deeply into raw metal rather than into rust, undercoating, or dirt. Again, if the noise is reduced, make the installation permanent with sheet-metal screws instead of the big clips, and move the checking strap to another location.



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AGE SECTIO



Complete denoising by these techniques may take several weeks, but when you're down to the last dregs of noise the bothersome pulse may be present only one or two minutes out of an hour so more direct methods cannot be used.

Choosing, Installing, and Using Accessories

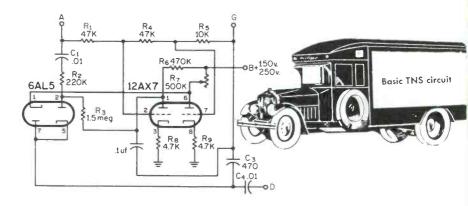
Accessories for the mobile station are almost endless in number, but fall into a few broad categories. Most popular

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by far are the outboard noise-suppression devices sold under a variety of names. Running a close second in the popularity race are the various audio gadgets—but these deserve discussion on their own, apart from the other accessories, and so we'll hold them until later. SWR meters and similar test equipment forms a third category.

So let's look at the noise-suppression gadgets, the test and indicating devices, and the selective calling devices in some detail.

By far the most popular of all the noise-suppression devices ever to hit the CB or ham market has been Bill Scherer's "TNS," known variously as the *Noistop*, *Noise Filter*, *Squelcher*, and a number of other trade names. All follow the same basic circuit and all work in the same way.



The schematic diagram for the basic TNS appears here. You can build one for yourself from this circuit if you've had any experience at electronic construction, but don't try it for a first project. All leads must be kept as short as possible, and the entire device must be enclosed in a shielded case, or you'll have oscillation and audio noise problems galore.

Here's how it works, stripped down to the essentials. Follow the schematic to keep from getting lost.

Resistors R1, R4, and R5 replace the detector load resistor in the transceiver, when the TNS is installed. When any signal comes in, a negative voltage appears across this string of resistors, with the largest amount of it appearing at the R1 end and the R5 end remaining approximately at ground.

The negative voltage at the junction of R1 and R4 is applied to the 12AX7 grid, pin 2, while that at the junction of R4 and R5 is applied to the other grid, pin 7. The resistors are proportioned so that about half the voltage shows up on pin 2 while only a tenth of it appears at pin 7.

These negative voltages on the two grids reduce the flow of current through the two halves of the tube, so that the plate terminals (pins 1 and 6) become more positive. Resistor R6 is fixed in value, while R7 is adjustable. This allows the voltage at pin 6 to be made equal to, more positive than, or less positive than that at pin 1, for any incoming signal, by adjusting R7.

The voltage between pins 1 and 6 is used to switch the 6AL5 diode "on" and "off," and the audio from the detector must pass through C1, R2, and half the 6AL5 (pins 2 and 5) before reaching the output through C4. If the 6AL5 is "cut off," no audio can get through to the output at terminal D. The way the tubes are hooked up, this will be the case whenever pin 6 is more positive than pin 1.

In practice, R7 is set (with nothing but noise coming in) so that pin 6 is just barely more positive than pin 1 on the 12AX7, so the diode is cut off and the receiver output is squelched.

An incoming signal drives both plates of the 12AX7 more positive, but since the tube half ending at pin 1 gets half the signal voltage while that ending at pin 6 gets only a tenth, pin 1 rapidly goes more positive than pin 6 and the squelch opens up.

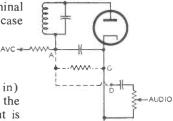
Should a noise pulse come in on top of the signal, it will appear as a very rapid rise in voltage at both 12AX7 plates. However, R3 and C2 prevent the voltage at pin 1 from changing in less than 15/100 of a second, which is much slower than the noise pulse. No such network is connected to pin 6, so pin 6 goes more positive again for the duration of the pulse, making the pulse punch itself right out of the output. As soon as the pulse is past, audio resumes—and the ear never even knows the pulse was there in the first place.

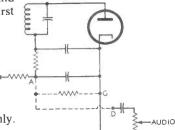
There's no rule that R7 be adjusted on noise input only. If you want to copy only S-8 or stronger signals, you can set R7 so that S-7 and weaker signals will be squelched out, and the only signals you hear will be those strong enough to open the squelch. This is frequently handy for dispatch operation during band openings, when every channel is cluttered by distant interference.

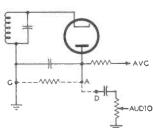
The A, G, and D connections are for use in hooking into the various types of transceiver circuits. We show here several typical detector circuits, identifying the points to which connections A, G, and D are made in each. By matching your own transceiver schematic with these, you can quickly locate the proper connection points for your own rig.

With some sets, the TNS circuit won't work because of unusual transceiver design. With more than 90 percent, though it usually provides enough boost in performance that the user feels it's money well spent whether he buys a commercial version or builds his own.

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In the field of test equipment accessories, the two types most useful in general mobile operation are the in-line SWR meter such as the *Reflectometer*, and the field-strength meter or FSM. The SWR meter is useful for tuning the antenna, and also indicates power output at all times. They are a bit complex to build, but are quite reasonably priced by a number of manufacturers. Several models are designed specifically for CB use, but at least two non-CB-oriented SWR instruments feature separate sensing heads and meter boxes, and these are more practical for the mobile.

The sensing head of an SWR meter, you see, must be inserted in the coax between transceiver and antenna, and if the coax is properly cabled this puts the meter where you can't read it easily in operation. The two-part instruments, though, allow the sensing head to be placed almost any where, and the meter boxe to be located wherever you like. An inconspicuous 3-wire cable connects the two.

To use this type of meter, first switch it to "forward" or "set" position and push the mike button. Adjust the meter zeroing knob for full-scale needle deflection. Then flick the switch to "reverse" or "read" and press the mike button again. The needle indicates SWR directly. In SWR, the lower the figure the better off you are—until you reach an SWR of 1 to 1. This is perfect; no lower figure can be obtained.

To use the SWR meter as a power output monitor, set it to "forward" and adjust the needle to some convenient indication near $\frac{2}{3}$ of the way up the scale. Tape the knob in place so that the setting won't be accidentally changed. So long as the reading remains the same, you're getting the same amount of power out. If the reading begins to fall off, you know you are having some type of trouble. Most likely cause is an aging transmitting tube. Another possibility is a weak battery.

If you don't want to keep an SWR meter tied up just to read power output on the rig, you can easily put together a simple FSM that will do the same job. The FSM is essentially a super-simplified radio receiver which picks off a tiny part of your radiated power, and indicates its strength on a meter. The circuit for one appears here; no case is needed, as the entire FSM can be built on the back of a $1\frac{1}{2}$ -inch meter, covered with tape to protect it, and then taped in position on the steering column or dashboard.

Simple FSM

Sensitivity of this FSM is determined by the length of its sensing antenna. The longer the wire, the higher the reading for a given amount of radiated RF power. In most cases, a 10-inch wire will be more than ample. When putting it together, have the rig tuned to maximum performance and make the sensing antenna long enough to get a reading of about 0.8 on the meter. Mark this spot with a scrap of tape as "normal." As with the SWR meter, any reduction

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Sensing Antenna

1N34

See Text for

Lenath

0-1 ma

Meter

in reading indicates probable transmitter trouble. Only a skilled technician can tell you just what the trouble is, however.

Audio and the Mobile

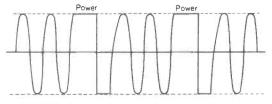
Mobile operation imposes several unique requirements on the audio system of a transceiver, which haven't been widely publicized.

One of the most important of these requirements, electrically, stems from the fact that a mobile antenna is usually not nearly so efficient as that at a base station, and so the mobile signal is usually several S-units weaker at the same range.

What does this have to do with audio? Simply this. By proper audio processing, those lost S-units can be gained back!

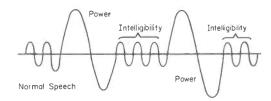
The human voice has two major sets of components; one of them provides intelligibility, while the other provides power. In normal speech, the "power" component is usually 10 to 100 times stronger than the "intelligibility" component. However, if it is cut back to the point that they are of equal strength, the voice is just as understandable. It won't sound quite so natural, but it will be easy to understand.





Clipped Speech

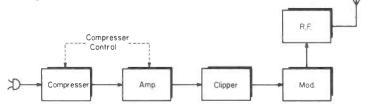
Getting extra talkpower



And, more to the point, it will *sound* that same 10 to 100 times as loud, though electrically the peak power content is the same as before. And that's where we make up those missing S-units.

The processing technique which cuts the "power" components back down to size is usually known as "clipping" and a number of devices are marketed to do this job. A similar, though not quite so effective, technique is that known as "compression," which does nothing about the relative strengths of the two components but keeps the output at the same level regardless of whether you talk loudly or softly.

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For maximum benefit, of course, both clipping and compression can be incorporated. While no commercial devices do this as yet, it's not difficult to cascade a clipper and a compressor on the same rig to do both at once.

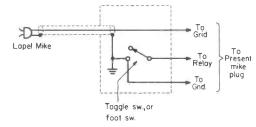
While the circuits for both clippers and compressors are relatively simple, they must be specially adjusted to the rig in which they will be used, and this adjustment must be made by a licensed technician as misadjustment is quite likely to cause overmodulation, an illegal condition. Therefore we're not showing the detailed circuits. Any technician capable of making the required adjustment can easily design and build you a clipper, while compression amplifiers are marketed by at least a dozen firms.

But the story of mobile audio doesn't end with clippers and compressors. It's just getting a good start.

If you've ever tried to operate mobile in heavy traffic, you know what a problem you can run into trying to make a sharp turn, shift gears, and talk at the same time with the mike keeping one hand tied up.

A simple accessory, not widely known, can overcome this problem for you at all times. It's an "operators' boom mike" such as that used by telephone operators, which is held in place by a headband. A spare headlight-dimmer switch can be mounted on the floor to replace the push-to-talk switch on the usual mike, so that a simple touch of the toe puts you on the air and another push switches back to receive. Alternatively, a SPDT toggle switch can be mounted near the transceiver to accomplish the same purpose.

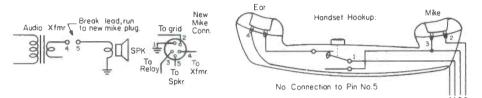
The boom mikes are available from several sources. Several microphone manufacturers include them in their product lines, but prices are apt to be high. You can occasionally locate such gadets in surplus, but they're few and far between.



An equally good alternative is to purchase an inexpensive *lapel* mike, which has a spring clip and attaches to your collar. This can be clipped to your collar when you get in

and switched as before; total cost of making this modification shouldn't be over \$5 at the outside—far cheaper than the least expensive traffic ticket or fender repair. Shown here are the wiring details.

Along the same lines, it's frequently nice to have privacy on your radio link. By this, we mean privacy in the car. You may not want your passengers hearing all the conversation. You can get this privacy, by adding a handset to the rig.

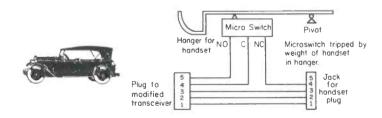


Some transceivers, notably the Lafayette HE-20 series, come with the mike plug already wired for handset installation. If yours isn't so equipped, you can change it as shown in here so that it will accept either a handset or a regular mike.

When the handset is plugged in, the regular speaker is disconnected and the receiver audio goes instead to the earpiece of the handset. Pushing the handset button is the same as pressing the conventional mike button, and use is similar to an ordinary telephone. Passengers can hear only your side of the conversation.

Unlike the boom mikes, handsets are readily available in surplus from a number of dealers. You could also build one, if you liked, using a ceramic microphone, a pushbutton switch, and one magnetic earphone.

For maximum handset versatility, you can go to the arrangement shown here. Here, the speaker operates normally so long as the handset is in its hanger. When the set is lifted from the hanger, the audio transfers to the earpiece and the speaker goes dead. When you "hang up" after the contact, the sound switches back to the speaker. An installation such as this, together with a selective-calling installation to keep you from receiving unwanted messages, is almost the equal of land-line telephone!

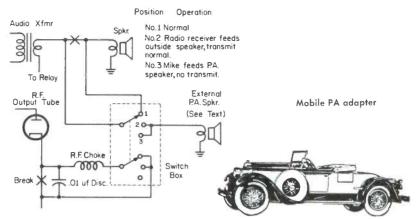


Frequently, there is possibility that mobile-equipped vehicles may be participating in civil defense and emergency activity. For these events, the modification to transceiver audio shown in here is useful. This modification allows the

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Mike Hot to No.2 Switch to No.3 Grid. to No.1 48.5 Connect Together.

Mike Hookup:



transceiver to be used either in its normal function as a radio, or as a portable P.A. system, at the flick of the switch. Information can be received and acknowledged by radio, the switch flipped, and the information broadcast to by-standers through the P.A. function.

The P.A. loudspeaker to be used with this should be a horn type of speaker, of weatherproof design. The University Model MIL-A4 is ideal but expensive. Similar speakers are available from Racon, Electro-Voice, and also from importing firms. Power rating need not be more than 5 watts.

A Bit on Batteryitis

"Batteryitis" is a word you won't find in any dictionary, but if you operate mobile very long you'll know what it means without a book. It's a disease which appears to be chronic with many mobile installations, and while it can be made acute by ignoring the power-requirement criteria set forth in the first part of this series it can also show up at any time, especially if weather turns cold and the mobile rig gets a lot of use.

What it boils down to is that the battery appears to be run down almost all the time. With many older vehicles especially, the disease is already present and installation of a mobile rig only brings it out for closer attention.

Most batteryitis can be prevented with a touch of battery maintenance. Water level in the battery should be checked at every refill of the gas tank, and distilled water added if necessary.

Should you be a do-it-yourselfer, an inexpensive battery hydrometer is a good investment. This will let you check the charge in each cell of your battery; a fully charged cell will give a reading of 1.275, while any reading below 1.150 indicates a dangerously low charge condition.

Any time you get a reading below 1.150, a quick-charge is indicated. One hour of fast charging is permissible with a starting reading this low.

However, the quick-charge is simply an emergency measure. To keep the battery life as long as possible, continued slow charging is much better.

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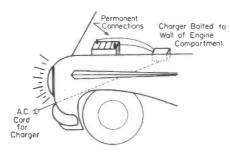
If most of your driving is on the open road, you probably have no worries about batteryitis. If it's mostly in town traffic, though, you have a problem, since the average auto generator won't keep the charge up under continual traffic driving.

A solution to this problem offered by many "Sunday mechanics" and all too many service-station attendants as well is to adjust the regulator for a higher charging rate. Don't do it, unless you just enjoy throwing away money. The regulator is factory adjusted for the maximum safe charging rate; the undercharged condition in inherent in the slow speeds at which the vehicle is driven.

A better answer, if the vehicle is *always* driven at slower than normal speeds, is to replace the generator pulley with a larger unit, so that the generator will turn faster for a given vehicle speed. This is usually inexpensive, and offers a total solution. However, if open-road driving is to be done even occasionally there's a chance the high-speed pulley may cause the generator to burn itself out.

One of the best answers is to replace the generator system in its entirety with an alternator system, which produces nearly 10 times the output at slow speeds without the attendant high-speed overload danger. Thanks to recent semiconductor developments, a complete alternator ready to install may be purchased for less than \$60; the installation is a two-hour job for anyone not afraid of a little grease, and no automotive know-how is required.

All of these answers involve modifications of the vehicle. One used by the author for years doesn't make a single change in the vehicle, and can readily be moved from car to car, yet will keep the battery fully charged almost all the time.



This is to purchase an inexpensive battery charger, at a cost of about \$8. The charger is then firmly bolted to the vehicle, at any convenient place in the engine compartment, and its battery leads run to the battery posts themselves where they are attached by means of sheet-metal screws. The AC cord for the charger is routed around the radiator and out through the front grille, and excess tied back so that only a few inches of the cord protrude through the grille.

A waterproof extension cord is then run from the house to the normal parking spot for the vehicle, and staked down securely. Everytime the car is parked, the cord is plugged

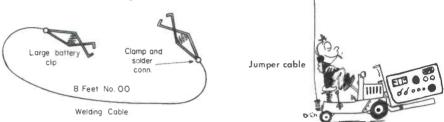
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Charger installation

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in. This turns on the charger, and the battery is left charging all the time the car is parked there. Should you forget to disconnect the cord when backing out, the firm staking takes care of it for you. The result is an end to batteryitis. At car-trade time, the charger is removed to be mounted in the new vehicle.

Of course, you may get a few laughs from the neighbors from time to time when they see you plugging your car in every night—and this trick won't work at all for apartment dwellers who must park on the street or in huge lots. But in many cases, it's a rapid and inexpensive answer to the problem.



No matter how the batteryitis problem is solved for normal use, though, you're bound to find the battery dead now and then. Emergency operation is one possible reason. Unexpected cold weather may be another. For these times, it's always nice to have a set of "jumper cables" handy.

You can either buy or build cables. If you build them, follow our sketch. Be sure you use at least No. 00 cable; best place to locate this extra-heavy-duty stranded cable is at an electric-welding supply firm, for it's used in arc welders. Each of the cables in the set should be at least 8 feet long, as the other vehicle may not be able to drive right up next to your hood. The clips at the ends should be large enough to grip any battery, and for your own safety (against burns, not shock) should be well insulated with vinyl tape.

The purpose of these cables is to allow you to borrow some power from another vehicle's battery to start your own engine, or to operate your rig in an emergency situation. To use them, the other vehicle is driven to a point where its battery is as close as possible to your own battery, and then the corresponding posts of your battery and his are connected together with the cables. Be sure not to switch the polarity; not all automobiles use negative-ground wiring. If both vehicles involved are wired in the same polarity, you can clip one cable to the other and drive the other vehicle so that its bumper is in close contact with your own, connecting the hot battery posts together and letting the bumper contact make the ground patch, but this may mar the chrome on the bumpers and if reverse polarity is encountered can seriously damage both vehicles, so is not recommended.

Even if you never anticipate batteryitis, a set of these cables is nice to have handy. You may meet some other operator stranded alongside the road someday, who doesn't have any of his own.

Watch for next month's big issue

SPECIAL BONUS 16 PAGE SECTION

Responsibilities of the Mobile Operator

For nearly the entire history of our radio service, various writers and authorities have preached endless sermons on the responsibilities of operators insofar as they involve adherence to federal regulations, proper use of the air, and so forth. This is *not* another in that endless series.

The subject is far different—what we're talking about here is the special responsibility which accompanies the privilege of having a mobile radio installation, regardless of the radio service in which that installation is licensed.

The operator of a fixed or base station has little contact with the world otuside the confines of his operating room, while he is on the air. His responsibilities while operating are confined solely to radio operating procedures.

Not so the operator of a mobile station. He is *in* the outside world, and the dividing partition between his "operating room" and the world outside is usually nothing more than an expanse of glass. If, as is most often the case, he is also the driver of the vehicle, then he is at the same time a radio operator and an active participant in the world around him. While he still has all the operating responsibilities of any radio operator, he has also the responsibilities of a citizen at large.

And in addition to both these sets of responsibilities, his possession of radio communications equipment imposes a third, and unique, set of responsibilities. That third set is what we're going to be talking about here.

Religious folk tell the parable of the Good Samaritan. An entire branch of social science called Ethics studies the interplay of this ideal between individuals and between masses of people.

In practice, most of us follow these responsibilities of helping people—whenever we know the people involved, or when conditions are such that we feel it is *safe* to offer help.

But few of us indeed would halt in a dark portion of a little-traveled road to offer help to another motorist, especially if the other auto contained three or four suspiciouslooking people and we were driving alone. Instead of needing help, there's too much probability that the "stranded motorist" would be planning to rob us.

And that's where the special responsibilities of the mobile operator come into being. So long as your radio is operating, you are never completely alone. This in itself means that you are more able to give help on the highway. Should the situation be suspicious, all you need do is call a friend and ask him to join you.

Road emergencies aren't the only field in which the special responsibilities of the mobile operator are active. In brief, the only reason you are permitted to have a mobile radio installation_is because the government feels it is in the *public* interest, convenience and necessity for you to have it. No radio license is granted for any other reason. You never had to prove it, simply because the FCC decided that operation in this service would fill those needs without



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having to require each individual licensee to prove how he would do so. But it's still the only reason you have a license.

And this overriding responsibility to the *public* is, as we have said, particularly present to the mobile operator because he is right out in the world. You may be a witness to almost anything. Statistically you will probably either see or discover about one major traffic accident in every 10,000 miles or so you drive. Your radio can, at that time, be the difference between life and death for the victims. The chances of your witnessing a crime being committed are considerably smaller, but again alert use of your radio can be of public benefit.

Since, as a mobile operator, you do have this responsibility, you should be prepared for it. The radio should a'ways be kept in top operating condition. You should carry a fully equipped first aid kit, and know how to use it. A couple of railroad flares in the trunk are nice to have should you come upon an accident after dark; they can prevent a two-car pileup from becoming a four or five vehicle smash in a hurry. The flares aren't expensive, and three will usually suffice for any occasion.

A key part of the fulfillment of your mobile responsibilities is to train yourself as a "sharp" operator. This means simply learning how to get your message through with a minimum of on-the-air time. Some emergencies, such as a storm disaster, will result in overcrowding all available radio channels. Then every message must be brief and to the opoint, to get them all through. Others, such as fires and auto accidents, involve time as an essential factor. Here again the messages must be short and seconds must be saved.

So far, we've been talking about individual action in relatively small emergencies. But large emergencies happen also. A tornado strikes. A child becomes lost. A brush fire rages. These are the times for organized group action.

Someone once said that the difference between an army and a mob was simply one of organization and training. The same thing applies to mobile radio operators. A hundred volunteer operators who have never worked together can converge on a relatively minor emergency scene, and rapidly convert it into a real disaster. The same people, if organized and trained (no matter how slightly) can offer real public service and meet their responsibilities.

And at this point, we're well out of the realm of mobile *installation* and deeply into *operation*, a completely different subject. So we'll wind it up here, with one parting thought: a radio system without mobiles is no system at all, so if you don't already have one, get busy and get it in. You're missing most of the advantages of CB!



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Several changes have been made in the S9 Swappers' Awards rules, plus a few additional awards have been whipped up to meet the ever growing needs of the swappers. A free copy of the *new* rules may be othained by sending a stamped, self addressed envelope to: "Swappers Awards Rules," S9 Magazine, 300 West 43rd St., New York, N. Y. 10036.

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Here are the Swappers Award Winners for this month:

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|------|------------|--|
| | 142 | George Thayer, KID2617, Burnt Cabins, Pa. |

- 223 W.E.Beem, KDD7568, Russellville, Ala. PX-25 224 John Ruppel, KBG 6946, Maspeth, N.Y. 225 Bill Pogue, KHD7778, Attica, Ind. 226 Andy Hines, KBI6248, So. Orange, N.J. 227 Eddie Dunn, KCI 5749, Kannapolis, N.C. 228 Robert Gilbert, KFI 1717, Livingston, Montana 229 Glenn Davis, 1882648, Chicago, 111. 230 P.B. Matthews, KEB2454, Greenbrier, Ark. 231 Steven Miller, KDC0071, So. Charleston, W. Va. 232 Curtis Foster, KFA7145, Sierra Vista, Ariz. 233 Donald Aspinall, KBC6415, North Heaven, Conn. 234 Bobby Denholtz, KBI 8237, Short Hills, N.J. 235 Bob Baumgardner, KHJ2979, Westlake, Ohio 236 Edward Ross, KCG 3689, Eastville, Va. 237 David Greenwood, KBA8540, Hudson, Mass. 238 James Eshleman, KCG2355, Liberty Grove, Md. 239 Luther Brandes, KEH6793, Kress, Texas 240 Ruthie Bopp, KIC3500, Lewistown, Pa. 241 John Ritchie, KCG2248, Conowingo, Md. 242 George Thayer, K1D2617, Burnt Cabins, Pa. 243 Dale Kephart, KCD1732, Bethleham, Pa. 244 Dick Dill, KHC0280, McLeansboro, 111. 245 Gene Coken, KCD3646, Bethleham, Pp. 246 George Solomon, KCD2574, Hellertown, Pa. 197 W.E. Beem, KDD7568, Russellville, Ala. PX-50 198 Robbie Roberts, KDE2475, Columbia, S.C.
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 - 162 Raymond Turek, KGC0267, Denver, Colo.

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163 George Thayer, KID2617, Burnt Cabins, Pa. 164 Arno Feltner, KED0775, New Braunfels, Texas

- PX-100 143 Bill Rosen, KH18546, Latonia, Ky. 144 Pamela Andresen, KHC2075, Fulton, III.
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- 118 Ralph Sorensen, 16Q1960, Bay City, Wisc. 119 Stanley Penc, KJ13337, Utica, N.Y. MSA 120 Jack Doggett, 17Q1339, Des Moines, Iowa 121 George Thayer, KID2617, Burnt Cabins, Pa.
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The first CB'er licensed under the FCC's recently acquired UNIVAC III processing system received the call KKA0001. It went to David W. Berry, Caratunk, Me.

Here are the CB'ers who heard from the FCC since we last looked in:

6Q1698, Mike Hiott, Round "O," S. C., directed to show cause why his license should not be revoked.

6W4919, Jim Harper, East Point, Ga., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged rule violations.

6W6454, Plato P. Powers, Atlanta, Ga., license revoked for repeated failure to respond to official notices concerning certain alleged rule violations.

10Q2041, James J. Owens, Amarillo, Texas, license revoked for repeated failure to respond to official notices concerning certain alleged rule violations.

11Q0571, Joseph Lambert, San Fernardo, Calif., hearings terminated on his show cause notice.

11Q4801, Frank Thompson, Los Angeles, Calif., hearings terminated on his show cause notice.

11W 4680, W. H. South, Placentia, Calif., hearings terminated on his show cause notice.

11 W8599, Donald M. Goddard, Fullerton, Calif., directed to show cause why his license should not be revoked for failure to respond to official notices concerning certain alleged violations of the CB rules.

14W1699, Roscoe J. Frye, d/b as A-1 Radio TV, Moses Lake, Wash., directed to show cause why his license should not be revoked for repeated violations of Sect. 308(b) of the Communications Act and Sect. 1.89 of the rules.

20Q4253, Michael J. Marshall, Rochester, N. Y., directed to show cause why his license should not be revoked for violations of the rules.

KCG0418, Shirley F. Brooks, Baltimore, Md., hearings terminated on her show cause notice.

KCG0478, Earl L. Johnson, Baltimore, Md., directed to show cause why his license should not be revoked for failure to respond to official notices concerning alleged violations of the rules.

KCI1019, Richard R. Zimpeiman, Lakewood, Calif., directed to show cause why his license should not be revoked for repeated failure to re-

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spond to official notices concerning alleged violation of the CB rules.

KC16404, James P. Bryant, Lynchburg, Va., license revoked for repeated failure to respond to official notices concerning certain alleged violations of the CB rules.

KDB1335, Thomas J. Hughes, directed to show cause why his license should not be revoked for violating Title 18, United States Code, Section 1464, and Section 95.81(a), non-substantive messages, of the rules.

KDB3441, Bowling Phillips Service Station, Rome, Ga., hearings terminated on their show cause notice.

KDD1812, Lucille H. Long, Powder Springs, Ga., hearings terminated on her show cause notice.

KDD2179, Larry E. Herring, East Point, Ga., directed to show cause why his license should not be revoked for certain alleged violations of the CB rules.

KD11452, Donald B. Smith, Miami, Fla., hearings terminated on his show cause notice.

KD12737, H&H Property Maintenance, West Hollywood, Fla., directed to show cause why their license should not be revoked for failure to respond to official notices concerning alleged violations of the CB rules.

KED0308, Elton O. Henson, d/b as Henson Grease Gun Repair Service, Houston, Texas, directed to show cause why his license should not be revoked for certain alleged violations of Title 18, United States Code, Section 1464, and the CB rules.

KEJ3522, Albert S. Holt, Compton, Calif., directed to show cause why his license should not be revoked for failure to respond to official notices concerning certain alleged violations of the CB rules.

KEJ5570, Post 170X, Boy Scouts of America, Los Angeles, Calif., license revoked for repeated violations of Sect. 308(b) of the Communications Act and Sect. 1.89 of the rules.

KFA0903, Darrell W. Small, Compton, Calif., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged violations of the CB rules.

KFA4204, Stephen B. McElhinny, Lakewood, Continued on page 75

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CB CHIT CHAT

Continued from page 35

coming CB Jamboree to be held at Camp Cosby, Birmingham, Ala., Saturday, June 6th and Sunday June 7th. Monitoring channels will be 9 and 11. Write Cee Band-ers, P.O. Box 563, Birmingham, Ala. Remember these dates.

dates.... Officers of the Arfax CB Club, Falls Church Va., are President, Donald Bates, KCG0708; Vice President, Van Gillenwater, KCG0258; Treasurer, Jim Lang, KCG2725; Secretary, Ann Gillenwater, KCG0258. Edi-tor and Associate Editor are "Cactus Bob" Howison, KCF0952 and Harrison, 4Q0791, respectfully. The club meets the last Thursday of each month, 8:00 p.m., at the McLean Bowling Center, McLean, Virginia. The Mid Tenn CB Club of Gallatin, Tennessee is a fast growing club, which was organized in April, 1963. The club hoast a membership of 100 and meets the third

The club boast a membership of 100 and meets the third Monday of the month. Membership comes from through-out the Middle Tennessee area. The club cooperates with civic organizations, sheriff's patrol, police and fire depts. Probably the most outstanding event for many of the CB'ers, was the annual Jamboree which was held last August at the Ceders of Lebanon State Park. At this writing, President of the club is Tom Lee. The election of officers will be held the third Mon-dav night in April. News of the club comes from A.P.R.E. S9 Magazine, Cecil Pryor, KDE0841. President of the Sportsman's CB Club is Gasket Warren ; Vice President, G. G. Bradford; Secretary, Robert Borden, Jr. The club meets the first Sunday of the month at the Hurricane Boat Dock Restaurant. The The club boast a membership of 100 and meets the third

the month at the Hurricane Boat Dock Restaurant. The

Robert Borden, Jr. The Cub meets the most blank, or the month at the Hurricane Boat Dock Restaurant. The club is from Cookeville, Tenn.
COMING EVENT—The Tri-County Citizen "D" Banders Inc., will hold a picnic and round-up, July 12th at Stuart Park located south of Elkins, W. Va. on U.S. Route 33. Join the fun in the National Forest of W. Va. Remember July 12th.
COMING EVENT—Hootenanny Jamboree to be held September 4th, 5th, 6th and 7th, over the Labor Day week-end. The event will take place at Albertson Midget Lakes, Dalton, Georgia. Follow the signs to Albertson's Midget Lakes, 5 miles north of Dalton, just of highway #71. Monitor channel 11. Fun for all, and a week-end you'll never forget.
COMING EVENT—The Donelson CB Club of Nashville, Tennessee is sponsoring a Dixie CB O'ree, June 27th and 28th. More info contact: Dixie CB O'ree, P.O. Box 2301, Donelson, Tenn.
COMING EVENT—CB Jamboree, May 9th and 10th at Oxford Lake Park, Oxford, Ala. Free prizes and

COMING EVENT-CB Jambore, May 9th and 10th at Oxford Lake Park, Oxford, Ala. Free prizes and entertainment for all. Tickets \$1.00 per person. For advance tickets write: Tickets, Box 58, Oxford, Ala. COMING EVENT-The First Annual Space Capitol CB Jamboree will be held May 29th, 30th and 31st, in Huntsville, Alabama. One of the feature attractions will be tours of Redstone Arsenal and the Marshall Space Flight Center. Contact: P.O. Box 1184, Hunts-ville, Ala. Ala. ville.

COMING EVENT-The Georgia Citizens Band Council, are planning a Jamboree for the weekend of August 1st and 2nd, at Stone Mountain State Park.

SOUTHERN

COMING EVENT-The Midsouth CB Jamboree, Sunday, May 17th, sponsored by the Monroe County CB Rangers. Site for the Jamboree is Stinson Skyport, located on U.S. Highway 45, one mile north of Aber-deen, Mississippi General info: Jamboree, 115 Highland

deen, Mississippi. General info: Jamboree, 115 Highland Ave., Aberdeen, Miss. From the CenLa Citizens Band Radio club comes news of their officers. President, Joe Voorhies, KEB-3764; Vice President, Bob Brewer, KEA0115; Secretary, Jim Smith, KEB2291; Treasurer, George Belcher, KEH-5491; Publicity Chairman, Ruth Voorhies. Recently CB'er of the month from the club was Charles Pospisil, KEA9231 founder of their newspaper the "CENLA" KEA2231, founder of their newspaper the "CENLA and their current editor.

Wired for sound, some good samaritans from Hia-leah spend their week-end evenings patrolling busy U.S. 27 for lost, strayed or gasless motorists. Members of the Hialeah Communications Radio Club have staked out their trouble beat along a 40 mile stretch ending at Andytown in Broward County. The clubs 51 members are radio bugs, and volunteer highway rescue duty applies the hobby to a public service. Club president



The National Dinner-Dance of the C.B.R.R.L. was held January 25th, at the Hotel Bossert in Brooklyn. Approximately 225 people attended from the various chapters in the outlying area. They came as far as Pa. Left to right—Sal Leone, 1st vice president; Joseph Verdi, past president; Harvey Hector, president; Grace Geier, past executive secretary; Angelo Pollicino, 2nd vice president; Connie Druiett, executive secretary; Charles Schwab, treasurer.

Del Ekenberger, of 881 SE 8th St., Hialeah, gets letters of thanks each week from tourists who have been

of thanks can here a given a helping hand. Recently the Vicksburg CB Monitors started their club on the firm and right foot by supplying taxi service for voters who had no way to the polls. The local Jaycees, to whom they volunteered their services as a public

cees, to whom they volunteered their services as a public service, had nothing but praise for the clubs effort. President of the group is Brad Emerson, KEB5337; Vice President, Jon Mask, KEB4001; Secretary-Treas-urer, Frank Nelson, KEB5080. The Strawberry Center CB Club recently took part in a emergency operation on the night of February 7th in which a T-38 jet trainer plane out of Oklahoma bound for MacDill field in Tampa, Florida, crashed North of Plant City, Florida. The club proved helpful in emergency conditions. The club gave its full co-operation to the Air Force Security Force. All credit went to the CB Club. The club meets the second and fourth Thursday evenings in the city hall. News of the club comes from Ross Hutcheson, KDI1800. How about that call. that call.

NORTHERN

Newly organized, the Glen Regional CB Club of Wat-Newly organized, the Gien Regional CB Club of wat-kins Glen, N. Y., home of the United States Interna-tional Grand Prix. Officers are President, Police Chief, Harry Schouten, KJ10717; Vice President, Sam De-Dominie, KJ13157; Secretary, Mrs. Bicky Comfort, KID7900; Treasurer, Jacob Landmesser, Jr., KID9216. A charter membership of over 35 is expected. News of

the club comes from Sally Cummings, KIE0591. COMING EVENT—The South-Eastern Pennsylvania Citizens Radio Club is planning a picnic soon. Let's hear more, fellows.

The Brooklyn Chapter of the C.B.R.R.L. will once The Brooklyn Chapter of the C.B.R.R.L. will once again sponsor the Veterans Bingo Game at the Fort Hamilton Hospital in Brooklyn. This is a quarter annual event that the members of the chapter look forward to. The chapter meets every 4th Friday of the month, 9002-4th Ave., Brooklyn. President, Sal Leone, 1st Vice President, "Whitey" Davis; 2nd Vice Presi-dent, Stan Solomon; Treasurer, John Patane; Secretary, Mollie Opavig The obstart also holds its coffee breaks Mollie Davis. The chapter also holds its coffee breaks every Sunday morning at Irvings Restaurant on 86th

Street, near 21st Ave. Metropolitan N. Y. area's role in a nation-wide Radio Emergency Citizens Team REACT program took a new significance as it prepares to roll. Frank Truglio, a new significance as it prepares to roll. Frain Frogero, KB13866, coordinator of Regional REACT Rescue states that their team, which runs on military pro-cedures and not Roberts Ruling, proves it is the only way to have a voluntary group. He feels that any member that cannot volunteer his services to his fellow man and his community, does not belong on his team.

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Each member must follow the manual of operation and charter. He also reports that his team covers Nassau, Queens and Kings Counties and is now expanding in different areas. All Divisions still have plenty of room for civic minded citizen band operators who wish to join. Regional REACT also has a cadet plan, for those from 14 to 18 years of age to join **REACT** with parents consent. 10-20 is 1187 Bernard Dr., Westbury, L. I., N. Y. They have chosen S9 as their official publication.

The Citizens Band Radio Club Emergency Ass'n of Derby, Conn., meets the first Tuesday and third Sunday of each month, Derby CD Headquarters. They have a total of 26 mobile units, 31 base stations, which are located in surrounding towns. All members are members located in surrounding towns. All members are members of the Derby CD Radio Unit and are on 24 hour call for search and rescue communications. In the future all members will be trained in First Aid. The club moni-tors channel 9 with channel 4 for emergency purposes. The Bristol County CB Radio Club of R. I. meets the 2nd Sunday of the month at 7:00 p.m. at Bristol CD Headquarters. The group will again handle parade control for the 4th of July Parade in Bristol.

COMING EVENT-The CB Socialites Radio Club of COMING EVENI-THE CD SUCRATES RATIO CIRCO OF Plaistow, N. H. are sponsoring the 1st Annual State of New Hampshire Jamboree, August 8th and 9th. The American Legion Farm on Route 121, just off Route 125, on the Mass., N. H. state line. COMING EVENT-July 19th, Second Annual State of Mass. CB Lumbarge sponsored by the Five Watt

COMING EVENT—July 19th, Second Annual State of Mass. CB Jamboree, sponsored by the Five Watt Whips of Lowell, Mass. More info coming. COMING EVENT—The 4th Semi-Annual Session of the National CB Clubs Conference will take place Saturday, May 16th, at the Memorial Bldg., Main St., Bay Shore, Long Island, New York. The conference will be hosted by the Mobile-Ears CB Radio Club. COMING EVENT—Bux-mont Radio League and the Keystone 11 Meter League, will co-sponsor the First Annual CB Jamboree, Sunday, May 17, 1964 at Lake-view Park, Royersford, Penna. Rain date—May 24th. Contact: P.O. Box 144, Royersford, Penna.

A newly organized club called the South Shore Rescue A newly organized club called the South Shore Rescue Rangers, with a membership of over 25. The club is the proud owners of a Metro Van for their emergency work. Purpose of the organization is to serve in the time of emergency however possible. Secretary of the group is R. E. Myrak, KBA1081. Sorry R. E. if we misspelled your last name, because frankly I can't read. Thanks for the news, and let's hear more. COMING EVENT-Middle Atlantic State CB Jam-boree, June 20th and 21st Rain or Shine, Lycoming County Fairgrounds, Hughesville, Pa. Route 405. The event is being sponsored by the Susgue CB Radio Club.

event is being sponsored by the Susque CB Radio Club, Box 644, Williamsport, Penna. Monitor channel 11.

News from the Greater Boston 11 Meter Association News from the Greater Boston 11 Meter Association which holds their meetings the Second Tuesday of the month. The club has a membership of 100, and is 3 years old. "The Friendly Listener" is their club paper. President, Ken Whisple, 1Q2219; V. P. George Janes, 1Q7406; Secretary, Gordon Wilk, 1W8814; Treasurer, Frank O'Conner, KBC6056. Editor of the paper is Ron Lizotte, KBC8363.

A new CB club, Lakeland Watters from the lake filled area of Northwestern Pa. President, Richard Bish, KID4596; Vice President, Lloyd Green, KIC2116; Secretary, James Hinman, KID3297; Treasurer, Fred Pfeiffer, KIC4918. Plans are under way for a emer-gency unit to work with the C.A.P. Also planned is a club paper.

club paper. Effective February 1st, the Monmouth County Emer-gency Aid Network (MCEAN) has officially taken over the sponsorship of a weekly coffee break which takes place 8:00 p.m. every Saturday at the Twin Brook Diner, Highway 35, Brielle, New Jersey. The owner, George Risden, KCD1721, (MCEAN member) and the the stude a cordial invitation to all CB'ers in the

George Risden, KCD1721, (MCEAN member) and the club, extends a cordial invitation to all CB'ers in the area, and to those passing through. If directions are needed, just holler on channel 11. They are looking forward to meeting you! Officers of the Blair Cambria Citizens Radio Associa-tion for 1964 are: President, Charles Sutcliffe, 20W-2889; Vice President, Raymond Johnson, Sr., 20W7325; Treasurer, Blair Knepp, 20W2746; Secretary, Raymond Johnson Jr., 20W7325. Their club paper The Five Watt Gazette, is edited by John Mutzabaugh, KID6235; Randy Patton. 2004175. Cont Editor is Raymond Johnson. Jr. Patton, 20Q4175. Cont. Editor is Raymond Johnson, Jr., 20W7325.

COMING EVENT-The Kadets of America REACT, announced plans to hold its first annual PICNIC-

Watch for next month's big issue

JAMBOREE, April 25th, Alley Pond State Park, in the upper pictic section by the nature trail. Monitor chan-nel 9. Jamboree control call KBI4369. Further info contact: REACT Headquarters, 147 McKee St., Floral Park, N. Y. Rain date May 2nd. The Lakeland Watter CB Club of Transfer, Pa.,

Conter in Transfer. The club has about 35 members. COMING EVENT—Williamstown 5-Watters CB Jam-

boree, Saturday and Sunday, May 30th and 31st, at Molia's Farm on Malaga Lake, Malaga, New Jersey, at intersection of U.S. 40 and New Jersey 47. Monitor channel 9 for Jamboree Control. Door prizes every COMING EVENT-The Seacoasters Citizens hour. Radio Club of West Atlantic City, N. J. will sponsor a CB Jamboree in September. Details are not available at present. The club boast a membership of 63 and are led by President Russell V. Stokes, KCC1719; Vice President, Tom Gallo, KCC3013; second Vice President, Warren Fox, 3Q0059; Treasurer, Dot Stokes, KCC1852; Secretary, Jean Truman, KCC2378.

COMING EVENT-8 State Jamboree, sponsored by the York Citizens Band Assistance Club of York, Penna., June 27th and 28th, Fishing Creek Community Grounds.

York, Penna. to Baltimor Expressway on Route 83 at Exit 16. Monitor channel 11. COMING EVENT—The fifth annual club CB Family Picnic of the Five-Eleven Radio Club, Inc., will be held on Sept. 13th, at White Swan Park, Parkway West, near the Greater Pittsburgh Airport, Allegheny County, Penna.

Here's a new twist-Rene Shaw, KBI3529, 709 Saddle River Road, Saddle Brook, New Jersey, is looking for a 24V-DC, CB rig, single channel or rock bound receive and transmit. Let's all look under the old

receive and transmit. Let's all look under the old rug and see what we can come up with. The Channeleers CB Radio Club of Quincy, Mass., meets every other Monday night at the Houps Neck Congregational Church at 7:30 p.m. Membership is about 35. Officers of the club: President, Louis King, KBA3734. Vice President 41 Money KBA48735. Scans about 35. Officers of the club: President, Louis King, KBA3734; Vice President, Al Mooney, KBA3835; Secre-tary, Marie King, KBA3734-U2; Treasurer, Del Cor-nelison; Publicity, Carole Gardner 1Q1310. COMING EVENT—The Naugatuck Valley CB Radio

COMING EVENT-The Naugatuck Valley CB Radio Club is holding a state wide Jamboree, June 21st, at the Lake Quassapaug Pavilion, Route 6A, Middlebury, Conn. A CB rig is their main prize, with prizes every half-hour. Jamboree Director is Charles Dierling. Newly elected officers of the Greater Hudson Valley CB Club are: President, Foster Hehesheimer, KB13010; Vice President, Lance Wheeler, KB1467; Treasurer, Jim Kline, KBG5737; Secretary, Gina Carp, KB18652. The club plans to assist the local Soap Box Derby and any civil organizations that request aid in 2-way radio communications. The club is dedicated to the highest communications. The club is dedicated to the highest quality of CB radio. Thanks Lance for the nice words about S9

COMING EVENT-The 2nd Annual Vermont CB Jamboree, June 28th, at the Rutland Fairgrounds, Rutland, Vermont, on U.S. #7. The event is sponsored Bob Hughes, 1Q6820, RFD, Pittsford, Vermont. The Tri-County Citizens Radio Ass'n of Southhamp-

ton, Penna, recently held their elections with President, Edward Wolfgang, KCC0011; Vice President, Dave Frank; Secretary, Bill Adley; Treasurer, Joe Sclaldone. The president praised the officers of 1963 for their fine job

job. 1964 Officers of the Troy Area CB Radio Club are: President, Lou LeFevre, KBI0338; Vice President, Steve Stracher, 2W8105; Sceretary, Ness Klein, KBI-1001; Treasurer, Paul Austin, KBI5188. COMING EVENT—The Town and Country CB'ers is sponsoring a Jamboree, July 3rd, 4th and 5th at the Fairgrounds, in Hemlock, New York. Camping and motel facilities are available. Monitor channel 11: Price—\$1.50 per person. Contact: Arthur Kretschmer, KIC5753, Leicester Rd., Caledonia, New York. 1964 officers of the Plymouth County CB'ers are: President, Bud Mattson, 1Q5768; Vice President, Dick Pratt, 1W5520; Sceretary, Bunny Dullea; Treasurer,

President, Bud Mattson, 105/68; Vice President, Dick Pratt, 1W5620; Secretary, Bunny Dullea; Treasurer, Tom Webby, 103981. At a recent club meeting, new jackets were given out, which the members had re-ceived from a drawing they had some time ago. February 29th a CB-QSL Card Swappers Fest was held at Baker's Diner, just outside of McConnellsburg, Pa. About 50 CB'ers turned up for the event, arranged bur Baue Convert Chauge Pa Bay, Thayer

by Rev. George Thayer, Burnt Cabins, Pa. Rev. Thayer is the card swapping king around this area, with a collection of approximately 9000 cards, which he displayed at the gathering. He has cards from every call

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CB IN ACTION By Len Haas, Sales Manager, Pearce-Simpson, KBG7527



Many thanks to Dr. Homer F. Matz, D.O., for his most interesting account of "CB in Action." A Pearce-Simpson Companion II is on its way to a very busy country doctor. Here is his winning letter

"CB in Action? YES SIR! CB radio provides a needed communications system for my medical practice as a general practitioner in a rural area. Two-way radio gives my patients faster service and enables me to have more time for my recreational interests. CB has saved me a great deal of backtracking and has also saved my patients long waits in my office by allowing me to get information on medication or some required service to the nurse at the base station.

However, some of my most satisfying experiences in helping others (unrelated to my medical practice) have taken place in the nine months since I have had my CB equipment:

- 4:30 A.M. Rural home on fire. CB station 1702615 telephone/relayed for assistance to the sheriff's office. Fire truck was rushed to the scene
- 2:30 P.M. Automobile accident. Unidentified station notified Missouri State Highway Patrol which quickly arrived.
- 5:30 A.M. Observed fire starting in tire repair building. KGI0895 relayed to his base station and they telephoned the sheriff's office. Building was lost, but emergency units prevented envelopment of adjacent buildings.
- 5:30 P.M. Truck-car collision. KGH4709 relayed to Missouri State Highway Patrol and an ambulance was quickly dispatched.
 - 6:00 A.M. Assisted out of gas mobile unit that called for help.
 - 8:00 A.M. Observed parked car on infre-quently travelled road. Radio/relayed call to police disclosed an abandoned stolen car.
 - 6:00 P.M. Received telephone/relay through KGI2828 to summon an ambulance to a rural home.

"CB radio in Action? YES SIR! I would never again consider being without this wonderful medium of communication.

Sincerely,

Dr. Homer F. Matz" WIN A COMPANION II CB

Write us and tell us your "CB in Action" story. Your letter on how you or your CB club helped your community with CB can win you a COMPANION II. Write Len Haas, Sales Manager, Pearce-Simpson, Inc., 2295 NW 14th Street, Miami 25, Florida.

area. Why not drop the Rev. a card, HE'LL QSL 100%. COMING EVENT-The Zelienople Tri-County RE-ACT Team is holding a CB Picnic Sunday, June 28th. There will be continuous entertainment and prizes awarded all afternoon and evening. The picnic will be held at the Zelienople Community Park, Zelienople, Penna

COMING EVENT-The Annual Western Massachusetts CB'ers Jamboree, July 19th at the Middlefield Fairgrounds, Middlefield, Mass. Monitor channel 11. Top manufacturers will be there.

WESTERN

20 CB'ers met recently to form what is known as the Arizona Local Emergency Radio Team, (ALERT). Monitor was Zene Kempf, KFA9774 who guided the CB'ers to the meeting place. Mike Zussman, of the Lafayette Radio Store in Phoenix told the CB'ers how to get the club started. Ed Etherton, KFA7330, was elected chairman, Vice Chairman, Zene Kempf, KFA-9774. The newly formed unit will monitor channel 2. Officers of the Valley "5" Watters, Lancaster, Cali-fornia, are President, Ray McBryant, KFA5967; Vice President, "Mae" McEwen, 1100167; Secretary, Diana Welt, KEJ6471; Ass't Secretary, Charlotte Hawkins, KFA1765. Sheryl McBryant, KFA5967 and Michael Finley, KFA8253, Publicity Managers. The regular meetings are held on the second and fourth Tuesdays of the month. The Club recently held their first annual Birthday Party. Birthday Party

Ed Pratt, KGB0282, president of the Denver Metro Ed Pratt, KGB0282, president or the Denver metro Citizens Radio Club reports that it was most gratifying to see such a large turn-out of members at the first meeting in the new location. As reported before, the club now holds their meetings in the Western Federal Savings Bldg., located in the Westland Shopping Center. (Free plug) Time 8:00 p.m. Everyone is welcome. 14 new members were enrolled recently, which brings the total membership to 198. The club is striving for a membership of 500. The annual Dog Sled Races held at Frisco, Colorado, were held recently, with the fine REACT group of the Denver Club to furnish the radio communications during the races. The REACT Unit of Whittier-Pico Rivera-Montebello

area is well established and growing. Even though they are less then a year old, they have covered the area well and provided emergency communications for many varied situations. The unit has only four elected officers. varied situations. The unit has only four elected omcers. A chairman is selected each month, and this member presides over the business meeting held on the 2nd Wednesday of each month. The officers for 1964 are: Communications officer, Gene Grant, KEJ6251; Asst communications officer, Jim Stratton, KEJ0294; Treaswhere Spencer, KFA0101; Secretary, May Grant, KFA1399. All CB'ers are welcome to attend the regular meetings. "Coffee Breaks" are held the 4th Tuesday of the month.

Membership Chairman of the Redwood Citizen Banders of Eureka, California, area reports a steady growth in membership. As of the end of the year, they total in membership. As of the end of the year, they total 60 members. Remember the club meets the 2nd Thurs-day of every month at the McKinleyville Airport. Every-one is welcome. If you don't feel that the association with other CB'ers and the making of new friends is enough a reason to get you out of the home 10-20 to these meetings, then think of what you are missing in the way of refreshments. Refreshment committee: Marg Brundin, Ann Walker and Goldie Canutt. Ken Masters, KFC4093, knows how to keep the "Flowers Kitty" well supplied with ready cash. The "Kitty" is to provide flowers to hospitalized members. Keep pass-ing that hat, Ken. If you haven't met Ken, make it a point at the next meeting. We hear Ken is a Deputy Sheriff, so let's all stay off the Highway. The CEMP (Citizens Emergency Mobile Patrol) of Reseda, California continues to report good construc-

Reseda, California continues to report good construc-tive meetings. Their headquarters are at 8209 Crebs Ave. in Reseda. The club meets the first Wednesday of each month at 7:30 p.m. The official publication is named "Modulator" and is well edited and interesting. The Echungwi indicates that South South and Mark The February issue indicates that Scott and Mrs. Stucker have lost a daughter, or maybe we should say, they have gained a son. Their daughter, Bonnie Kay, was married to William Gibb on February 8th. Best wishes to the newlyweds. Scott is a past president of CEMP. President Kincade reports three new members, and two new applicants. In the CEMP, all new applicants must go through a three month initiation period before becoming a member.

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Redwood Citizen Banders of Eureka, California area, wishes everyone to know that they were real pleased to have a request from Don Cortright, 19B0553, Editor of the C.B. Chatter Box, of the Cereal City Citizens Radio Club, Battle Creek, Michigan, for an exchange from S9 Magazine, (Oh, that's us). Hazel Masters, Editor of the newspaper, "The Whispering Redwoods," reports that while the club did not realize a big profit from the New Year's Eve Dance, the fun that everyone had that attended and the many new friends made, really paid off in "profit" for the club, even though it was not monetary. Thanks to Bill Kuppe, KFC3376, for furnishing 400 records for everyone to dance to. RMF

COMING EVENT-The Fresno Citizens Band Radio Club is planning its second annual Jamboree for the 6th and 7th of June. It will be located at Wildwood Beach Country Club, Highway 41, at the San Joaquin River, More information write: The Fresno CB Radio Club Jamborce, 231 Dennett, Fresno, California. The Capitol Citizens Band Radio Club of Helena,

Montana was formed recently and the following officers were elected. President, George Drosten, KFI142; Vice President, Mary Longmire, KFJ0510; Secretary, Joyce Drosten, KFI1422; Treasurer, Marilyn Ries, KFJ1459. Meetings are held the 1st and 3rd Sunday of each month. Presently there are 12 members, and their monitoring channel is 10.

The Hi-Desert CB Radio Club is now holding their regular business meetings the first Saturday of the month. Location is still the American Legion Hall, Josuha Tree, California. The February meeting was well attended, with 40 people present. A most interest-Well attended, with 40 people present. A most interest-ing home movie, taken by the son of one of the club members, about life at the government base at the south pole. Francis Williams, the wandering Merchant Marineer, was a 10-20 high in the San Bernardino Mountains until he decides to go to sea again. Welcome back Francis. He has promised to give a resume of one of his three or four trips for the club soon.

About 18 months ago, a number of CB'ers in San Fernando Valley were together for a coffee break and rernando valley were together for a conee break and out of this gathering there was started the Valley Radio Ass'n. The club has grown and prospered during this time until now several hundred CB'ers and their families attend every Sunday morning at the Matador Bowl in Northridge. The clubs business meetings are held the 1st Sunday of each month, following the breakfast. Summer time is family time for the VRCA. The club has scheduled a "COUNTRY FAIR," June 28th from noon to 10.00 nm at the John Carrol Ranch, 16700 Chatsworth in Granada Hills. A bar-b-que dinner will be served. Tickets include the dinner and all activities.

Roma Jones, KEJ5859, San Bernardino has been elected president of the 5 Watt Wizard CB Radio Club. Other new officers include Vice President, Melvin Nut-ting, KEJ0071; Secretary and Treasurer, Mrs. Connie Yost, KFA1701. Civil Defense plans for the San Bernardino will be outlined at the next meeting of the club.

The REACT Team of Pico Rivera, Montebello and Whittier, held a coffee break at the Little Lake Recrea-tion Park, with approximately 50 attending. After a very short business meeting, everyone enjoyed coffee



Members of the Faith City Five-Watters. Front to back-Gene Sherman, KEH3323; Jim Hargraves, KEG4174; Unknown CAP Cadet (BUT PRETTY); Richard Oldham, KEH3891, publicity director; Ray Mitchell, KFA9631. Pointing to map is President Bob Kennedy, KHC3869.

and doughnuts. The REACT group of Orange County visited and gave plans of their campout to be held in March.

Officer of the Hub City Radio Ass'n are President, Alves T. Ford, KEH1969. The club is looking for some new ideas from other clubs. Write: 1821 Ave. "K," Lubbock, Texas-79401.

CENTRAL

Huntington Co. CB Radio Band, Inc., officers for 1964 are: President, George Folk, KHA8791; Vice President, Jim Sprinkle, KHA3845; Treasurer, Don Willits, KHB1009; Secretary, Dick Jennings, KHD-1870. The club monitoring channel is 11. They have a membership of 50 and meetings are held the 1st Tuesday of each month in the Court House, 2nd floor, Time-7:30 p.m.

Teenage CB'ers attending Wyondotte High School in Kansas City are attempting to form a school CB in Kansas City are attempting to form a school UB Radio Club. Most of the boys are second generation CB'ers with Pops who are active throughout the K. C. area. Any boy or girl attending the high school in-terested in CB should contact KGI4155, channel 9. The Greater K. C. "Morning Glories" held their last coffee meeting at Charlane Woods, KGI5545, home. The girls have done a wonderful job getting CB'ers in the

area introduced and cooperating on the use of channels. Yes-leave it to the girls. .

Bill Brown, 17Q2552, President of Jacomo CB Club, reports a successful club operation in connection with the Mothers March for the March of Dimes. They acted as guards and collection units. Police rode with the CB'ers and highly recommended the operation.

The Salvation Army Communications made up of K. C. K. C. area CB club members had a busy month aiding the K. C. Fire and Police with two major fires. The group is now making plans for a communications

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trailer with officers monitoring channel 5-24 hours.

The North Area Emergency Radio Team are planning a Emergency Radio Truck. They have a bread truck and are busy planning modifications for installing 2-way equipment, hi-frequency receivers and first aid ma-terials. The North K. C. area has long needed this type of disaster equipment.

COMING EVENT-The 3rd Annual Jamboree spon-sored by the Bartholomew County Citizens Band Radio Club, Inc., will be held May 24th at the 4-H Fairgrounds, State Roads 58 and 31A, Columbus, Indiana. The event will take place RAIN OR SHINE. News has it that Chuck Baer Enterprises will handle all the call badge engraving. This event should be a good one

COMING EVENT-The Montclare CB Radio Club Grove, Fox River Grove, Ill., June 21st. Entrance tickets are \$1.50 A CB unit will be the main prize

COMING EVENT—The Central Indiana Citizens Band Club, Anderson, Ind., will hold their Jam-boree July 18th, at Union Hall, 109 By Pass, Ander-son, Indiana. It will be an all day affair with loads

son, Indiana. It will be an all day affair with loads of CB equipment. COMING EVENT-CB Jamboree, sponsored by the Kichapoo 5 Watters, Danville, Ill., will be held May 30th and 31st at the Eastern Illinois Fairgrounds. Monitor channel 9. Interested parties write: Jake Jacobs, 839 Commercial, Danville, Ill.

COMING EVENT-President Jim Curts, 18A4120, of the Cee Bee Social Club announces plans for a QSL Jamboree, to be held June 21st. Place: 4-H Club ground in Alexandria, Ind., located on State Route 9. Prizes will be given away throughout the day. More info from Ralph Harter, R. #1, Box 37-A, Amboy, Indiana.

COMING EVENT-The Maumee Valley CB Radio Club, Fort Wayne, Ind., will sponsor the 1964 Maumee Valley CB Roundup, largest one-day CB gathering in Valley CB Roundup, largest one-day CB gathering in history at the Memorial Coliseum, Sunday, September 20th. Due to the tremendous success of their 1963 Roundup, they have arranged the finest accommoda-tions and plan to give CB'ers the best of all events this year. Further details will be announced as com-pleted. General Chairman, Mort Knott, KHA4735. Follow the blow-by-blow account in the pages of S9.

COMING EVENT—The Elwood CB Club will hold their annual Jamboree, June 21, 1964 More info will be forthcoming from S9, A.P.R.E., Ralph Harter, KHB2574. Since this is one of the most established areas for jamboree's Ralph will keep this writer informed so we can pass it along to the many S9 readers who I know want to mark the date on their calendar. This one should really be a blast!

A special salute to KGI6041, G. L. MacRay. He has made it his business to make visiting CB'ers in the K. C. area very welcome. He has the coffee pot perking all the time and you usually stay for supper. G. L., a local bus driver, spends his days off running sight seeing tours and is certainly a great public relations man for

CB and the City of Kansas City. COMING EVENT-BIG 4 CB Jamboree, Sunday. May 31st, Marion County Fairground. The Jamboree is sponsored by the Marion County CB Clubs. Come one and all. COMING EVENT-Circus City CB Club of Peru,

Indiana, announce a QSL Jamboree to be held August 9th. Place: the 4-H Fairgrounds, just north of Peru, 1% miles on State Route 31. COMING EVENT-The Kishwaukee Radio Club will

bold its annual CB and Ham Swap-Fest, Sunday, May 3rd, at the Hopkins Park Shelter House on Illinois, Route 23 on the north side of DeKalb, Ill. For more info write: Al Brand, 415 East Sycamore St., Sycamore, III

III. COMING EVENT—3rd Annual CB Jamboree, Colum-bus, Indiana, sponsored by the Bartholomew County CB Radio Club, Inc., May 24th. Place: 4-H Fairgrounds, State Roads 58 and 31A, Columbus, Indiana. COMING EVENT—CB Jamboree at Eastern Illinois Fairgrounds, May 30th and 31st. The event is sponsored by the Kickapoo 5 Watters, Danville, III. Interested parties write: Jack Jacobs, 839 Commercial, Danville, Illinois Illinois

COMING EVENT-Western Illinois CB Boosters Club Annual Jamboree, to be held at Monmouth, Illinois, June 14th. Interested parties write: Western Illinois

Watch for next month's big issue



CB Boosters, Att. Lucille Penn, KHC6849, Berwick, Illinois-61417.

The 11 Meter Communications Squad holds their monthly meetings the first Thursday, 8:00 p.m. 2039 Fairfield Ave., Fort Wayne, Indiana. Their aim is to help when needed—accidents, storms, floods—lost children and mobile needing travel information. The group is connected with REACT. Looking to hear more from the group and Haroid Peck, 18A4254.

aren and mooile needing traver information. The gloup is connected with REACT. Looking to hear more from the group and Harold Peck, 18A4254. The Ingham County CB Club, Inc., is proud to announce that their mobile van is now on the road. A hand well deserved to Gordon Wilson and his committee for the beautiful job well done. If any club wishing to exchange club papers write: P.O. Box 15, Mason, Michigan.

COMING EVENT—The Northeastern Michigan CB Club will hold their annual CB Jamboree, June 14th, Sunday, at the Bad Axe Fairgrounds, Bad Axe, Michigan.

Officers for 1964 of the Citizens Radio Club of Worthington, Ohio are: President, Mearl Williams, KHH-0276; Vice President, Jack Hostetter, KHG1658; Secretary, Bill Smith, 19Q9441; Treasurer, Dewey Bibb, KHI2857.

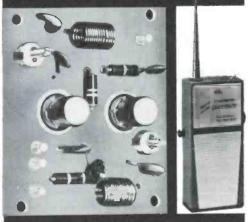
Thelma Simpson, KHA0015 has resigned from the Mississinewa CB Club and will be replaced with Georganna Hall for the remainer of the year. The club will place signs along the highway informing out of towners what channel to call for road help or emergency. COMING EVENT—The Midwestern CB club of Ko-

COMING EVENT—The Midwestern CB club of Kokomo, Ind., announces the place and time of their QSL Jamboree. May 3rd, Kokomo Municipal Airport, located 400 E and 400 N., N.E. of Kokomo on Touby Pike. Should be a real blast.

The newly elected officers of the I!lini Class "D" Radio club are: President, Cliff Cook, KHA1471; Vice President, Del Wilkison, 18W8333; Secretary, Nell Reifsteck, KHA8301; Treasurer, 18QA1609. Meetings are held the last Sunday of every month, at the Dance Pavilion Crystal Lake Park 2:00 p.m. The club membership is 114 strong and still growing. Any club wishing to exchange newsletters contact: Editors, Harold and Sandy Conley, 1516 Hedge Road, Champaign, Ill.

Officers elected for 1964 in the Cedar Rapids Citizens Radio Club are: President, Carl Leitner, 18B2480; Vice President, Bob Siex, KHC3792; Treasurer, Bob Postel, KHC0659; Secretary, Jack Armstrong, KHC6900. This group has 70 active members and officiates at all functions where portable communications are needed. The





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CRCRC is also active in the CD program and have taken Red Cross training and medical self-training, which is a requirement.

The Knox Co. 5 Watters CB Club was officially re-

The Knox Co. 5 Watters CB Club was officially re-organized recently, and now boast a membership of 30 active members. The club meets the second Wednes-day of each month in Mt. Vernon, Ohio. COMING EVENT—The Knox County 5 Watters CB Club will hold their first CB Rally, May 31st, at the Knox County Fairgrounds in Mt. Vernon. President of the group is Bob Dusthimer, KHG8167. The Lawrence County CB Radio club recently elected President, Dennis Fairchild: Vice President, Bob Schweickart: Secretary-Treasurer, Ed Hasenauer. The club meets the 2nd and 4th Monday of each month at

club meets the 2nd and 4th Monday of each month at the Boys Club in Ironton, Ohio. The club also works as a short range communications system for the local CD and in conjunction with state and local law enforcement officers, when needed. Also they are connected with the Federal Forest and State Forest Service in their county

COMING EVENT-Fourth Annual CB Jamboree sponsored by the Illinois Valley Citizen Banders Club at the Exposition Gardens in Peoria, Ill., June 28th. Monitor channel 9-11-14. Come early and stay late! COMING EVENT—First Annual Great Plains CB Radio Convention, to be held at Sioux Falls, South Dakota. Tentative dates June 27th and 28th. This event will be sponsored by the Sioux Empire Citizens Communications Association, Sioux Falls.



New mailing address of the Wabash Valley CB, 420 Shelby St., Vincennes, Indiana. The club monitors channel 11. President, A. R. Niblack. 18W4863. COMING EVENT-Huntington County CB Radio Club. QSL Jambore, July 19th, at the Weiss Park in the South part of Huntington.

COMING EVENT-The Allen County CB Radio Club of Lima, Ohio will hold their Annual CB Picnic, Sunday, August 2nd. The event will take place at the Allen County Fairgrounds. Remember, August 2nd. COMING EVENT—The Springfield CB Club, Spring-

field, Illinois, announces its second annual Jamboree to be held June 21st, at the New Berlin County Fairgrounds, New Berlin, Illinois. Over 150 Door prizes. Come one and all.

COMING EVENT-Land of Lincoln CB Club Jamhoree, June 6th and 7th to be held at the Macon County Fairgrounds, Decatur, Illinois. Lots of prizes. Come and swap cards and meet other CB'ers.



COMING EVENT—The Night Hawk Net of Michigan is sponsoring their 3rd annual CB Blast, Saturday, May 23rd, at Johnson Park in Grandville, Michigan. Monitor channel 11. Distributors of electronic equipment will display.

The Lincoln Trail CB'ers Club was organized in February of 1963 and now boast a membership of 85. The club meets on the third Tuesday of each month. President, Tom Hixon, KHC1496; Vice President, Harold Mathis, KHD5987; Secretary, Claribel Morris, KHC5922; Treasurer, Richard Jones, KHD5029. The KHC5922; Treasurer, Richard Jones, KHD5029. The club has about 41 REACT members that monitor chan-nel 9, twenty-hours a day. James Tretter, KHC0121 is Co-ordinator for the REACT program. COMING EVENT—The MontClare CB Radio Club will hold their spring dance June 6th, at Weber Hall, 2924 N. Southport, Chicago, Ill. Time: 9:00 p.m. COMING EVENT—Indianapolis Jamboree, May 31st, at the Maxim County Fairgrounds. Indiana, For more

at the Marion County Fairgrounds, Indiana. For more info contact: C.E.R.N. P.O. Box 21191, Indianapolis, Indiana. S9

QSL's While-U-Wait YUP! Your choice of any or all of our seven wacky - wild styles made while you wait ! Of course, you have to wait a week or two so's we can erase the type from old ACBA membership cards

expect for only \$1.00 per hundred? Add your call and start swapping. Send your order or 10¢ for samples to: Nussbaum 1440-54th St. Brooklyn, N.Y.

for printing stock. But, what do you



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59-GUARANTEED Largest CB Circulation!

Continued from page 66

Calif., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged violation of the CB rules.

KFA4513, Jim D. Zavas, Lynwood, Calif., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged violation of the CB rules.

KFA9030, Richard B. Ellwood, Garden Grove, Calif., directed to show cause why his license should not be revoked for failure to respond to official notices concerning certain alleged violations of the CB rules.

KFC1335, Richard J. Lovett, Vallejo, Calif., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning certain alleged violations of the CB rules.

KFD5199, Sidney C. Karneke, Sacramento, Calif., directed to show cause why his license should not be revoked for repeated failure to respond to official notice concerning alleged violations of the CB rules.

KGB0234, Raymond G. Parmiter, Longmont, Colo.. directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning certain alleged violations of the CB rules.

KH13883, Charles A. Little, Grand Rapids, Mich., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning certain alleged violations of the CB rules.

KID1638, Nike T.V., Wellsville, N. Y., hearings terminated on their show cause notice.



KBG4303 RIDES AGAIN Continued from page 7

these various equipments, it is usually the fault of their own piece of gear which permits you to come through their different types of audio amplifiers. What it boils down to is that manufacturers of these equipments are not interested in spending a few additional pennies for a resistor (and possibly also a capacitor) to go between the audio input and the grid of the first audio stage. It's as simple as that—and we are the ones who must pay the price every time we go on the air.

Seems to us that the FCC might take a look into the situation and possibly whip up some kind of legislation, similar to the portion of Part 15 which regulates the amount of signal which can be radiated by a TV receiver.

I know that this type of audio interfer-

ence, called "audio rectification," has long been a pain in the antenna to a number of radio services, in addition to CB. We would all be well rid of it.

ELECTION?

Well the ACBA finally had their long touted election. According to a press release, it seems that 11 people got together in Texas, formulated permanent policy and elected a president and several other officers. It wasn't explained how it came to pass that it took only 11 people out of the claimed 10,000 members to do all this, but I guess that there has been so much left unexplained in the ACBA's operation that this one more incident won't make too much difference to most of the members. Oh, you'll be surprised to learn that the 11 people who attended the meeting in Texas selected the self-appointed "Executive Administrator" for the post of "Administrative Manager." The press release then naively referred to him as "the newly engaged Administrative Manager." One of the ACBA's new officers has written us letters in the past which border on the kind people turn over to postal inspectors.

Other interesting sidelights to the ACBA meeting which recently took place included: the man who runs ACBA fixed himself up with a \$12,000 per year salary, his secretary will be getting \$3,000 per year, his assistant gets \$6,000 per year. When you think that this is a "non-profit" organization, and there are already \$21,000 worth of yearly salaries tagged onto it (to say nothing of the expense account spending which can and will be charged off to the club) it sure doesn't leave very much money left over to devote to club doings and members—the club has not even taken in \$21,000 gross in it's entire first year of operation!

Oh, by the way, you'll be interested to know (if you are a member) that the club doesn't even belong to you, even though the club makes the constant claim "ACBA is YOUR organization." If you decipher Article V (paragraph 2) of the ACBA's newly revised by-laws, you will see that in the event that the ACBA corporation is dissolved, all the assets, "in no event," shall be distributed to its members. Also, Article IV (paragraph 2) plainly says that "No part of the assests or income of the corporation shall be the property of the members or any of them, but such assets and income shall be devoted exclusively to the purposes set forth herein."

In addition to the original ACBA membership fee, the ACBA is now coming around to their members with a so-called "TAX" to hang onto their original investment. When you get through paying for a membership, plus the special tax, plus the additional monies for ACBA "official" decals, license plates, and whatever—you really wind up with a sizable investment in this (so-far) donothing organization. Well, maybe you helped pay the \$21,000 worth of salaries which were approved in a 9 to 0 vote on the first ballot at the recent meeting.

The elections themselves had an almost comic opera aura. First nominations were held for the offices of President, First Vice President, Second Vice President, Third Vice President. In each instance only one person was nominated and seconded, and the persons nominated were among the group present at the meeting. Also, in each instance, the nominations for each office were quickly closed with a 9 to 0 vote, and the nominees became the officers.

By that night, the fellow who was President decided that the voting seemed not too certain as to validity of the whole election and promptly resigned. He was shortly followed by all of the other "elected" officers, who resigned in turn.

Nominations were again opened and the very same candidates were again nominated, this time with a switch. Now the added frill of a "second" nominee was included with each candidate. Of course, the "second" nominees all declined the nomination and all of the original officers were "elected" by a 9 to 0 vote. Many other votes were taken that day, they involved club policies, salaries, financial negotiations, etc., etc., each vote was a 9 to 0 shutout. This included some kind of financial fancy dancing whereby the American Citizens Band Association, Inc. decided to purchase their own magazine (The ACBA [OURNAL) from "ACBA Enterprises, Inc." for a cost of \$3,600. Details of who owns "ACBA Enterprises, Inc." were not described, nor were the reasons for why the ACBA should have to purchase their own magazine from a third party with the same name.

It will be a miracle if there is one penny left in the corporation when they stop playing games at the ACBA.

Ah, good old democracy in action! Tom Paine is probably spinning in his grave.

PRESS TIME

Have pity! You must realize that we don't go to press the day before the magazine goes on sale. How can you expect us to give publicity to a CB jamboree which takes place on May 3 when you don't tell us about it until April 25th? You wouldn't believe how many times something like this happens, leaving us helpless.

Just for the record, we must know about CB functions at least 6 weeks prior to our publication date in order to work you into the issue. I can't imagine that these Jamborees are whipped up with less than 6 weeks of preparation, so why wait for the last minute to let us help you put the event over big? Have pity!

ANOTHER 80 PAGER

Hope that you have done a little page counting this month and come up with the startling discovery that we have again been able to bring you another JUMBO 80 page issue-a 16 page increase over our "standard" size. These 16 extra pages come to you, not by the benevolent grace of our leader, KBI7182, but only by the happy figures in the Accounting Department's ledger books.

Want more of these 80 pagers? Want 96 pagers? We do too! Know something else we want-no; *need*? We need your support in the form of a subscription-when the subscriptions roll in the big issues roll off the press. Want more big issues You still don't subscribe? Why not?

SEND YOUR CASH

As you will recall, we have, upon a number of occasions, mentioned the only reasons there are "black eye" radical CB organizations presently infesting our ranks is that there are always CB'ers willing to donate a dollar or two to just about *any* cause-regardless of how inspid it may be.

In the February issue of S9 we ran a wonderful "Guest Editorial" by Dennis Comer, KHH3743, Editor of the Frequency Beat (5 Watters of Lake County, Ohio). It was a zany spoof tale of how some clubs ask for money and are then never again heard from. Dennis used, as an example, a fictitious club name, "The Preservation for CB'ers of America, Inc." (the "Inc." meant "I need cash.") Guess what, somebody actually sent Dennis a dollar and asked for membership in "his club." Oh boy!



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Watch for next month's big issue

READER MAIL

Continued from page 7

Dear Sir:

I subscribed to CB HORIZONS in November, 1963, and never received a copy or a refund. Can I transfer the \$5 which I sent them (they cashed my check) and receive a subscription to S9? Sheldon Lundstrom, KGI2290 Little River, Kansas

These are just a sampling of the dozens of letters we have received from persons who have been relieved of their dollars by the "out of business" Horizons Company. From what we have been able to determine, the corporation still legally exists, and we suggest that readers who sent in their money only to receive nothing in return, immediately contact their local Better Business Bureau, or the United States Post Office (Postal Inspector's Dept.), or maybe even the company itself. I have a feeling that if enough of a ruckus is made, the company will eventually be forced to refund the thousands of dollars which were collected for goods which they never delivered.

15 YEAR OLD KIDS

Tom:

Regarding the comments of ACBA Vice President Irvin Hemmle that card swappers are a bunch of 15 year old kids (March S9, page 46), we are not 15 year old kids. We just enjoy swapping. Vince Melendy, KBC0209

Bedford, Mass.

Editor:

Regarding the comments from the ACBA's Mr. Hemmle, could be that he is too tight to invest in stamps and cards. There are rotten apples in every barrel.

J. & M. Molnar, KIC5636 Messena, N. Y.

Tom:

I think that "Mr. ACBA Vice President" owes us card swappers an apology. I think that he is the one acting like a 15 year old. I sure would not want him to head any club that I belonged to. I think it's wonderful to swap cards. Is a stamp collector a 15 year old?

Gordon Fleming, 11Q0822 Lynwood, Calif.

Sirs

I hope I'm not a 15 year old kid, but anyway J want to be listed in your card swappers colmun. Cliff Burke, KHJ7373 Wyoming, Mich.

Dear Tommy:

I am one of the so-called "15 year old kids" that the ACBA's man in Ft. Worth mentioned. Enclosed are 12 cards to keep me swapping each month for a year (until my "16th birthday," I guess).

Charles Petersen, 18W8750 St. Charles, Ill.

Sirs:

Tell Mr. Hemmle that if the card swappers are a bunch of 15 year old kids, then he is even less. The same goes for his ACBA free loaders or dollar

The BIG Switch Is To S9

grubbers (whichever you may wish to call them). Calvin B. Williams, KCJ8851

Dear Editor:

In regard to the sour note from Mr. Irwin Hemmle, I found little trouble in swapping cards with a man of the very same name in Ft. Worth-he signed his card "10W4336, The Old Fisherman, Tnx for your card." This would seem to indicate that he didn't mind swapping cards if his name was picked out of another publication. In the picture on his card he looked just like what I had imagined an ACBA member would look like, and the picture on the card probably did him justice. A/1C Bill Roney,

Andrews AFB Washington, D.C.



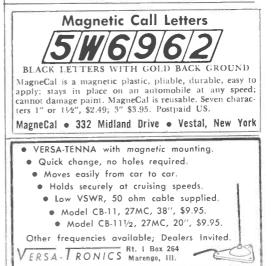
LAB REPORTS

Continued from page 34

The S-meter doubles as a relative power output meter during transmit, and an external meter is not required for tune-ups. With the antenna connected, the transmitter is tuned for maximum meter reading; the antenna system's SWR has no effect on the accuracy of the meter as a tuning indicator.

The modulation is crisp and clean, and reserve mike gain insures that even a soft-voicer will have optimum modulation. To insure as near 100% modulation as possible a calibrated modulation meter is provided (the S-meter doubling again). What is unusual about the modulation meter is that while calibration is provided, Lafayette claims it is only a relative indicator. However, our tests indicate that when the transmitter is tuned for a full 5 watts input the calibration is correct-when the meter indicates 100% the transmitter is modulated 100%, etc. We suspect Lafayette played it safe and allowed for someone not tuning-up properly.

Our conclusion is: if you're looking for a quality transceiver at a reasonable price be sure you consider the Lafayette HB-111.





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