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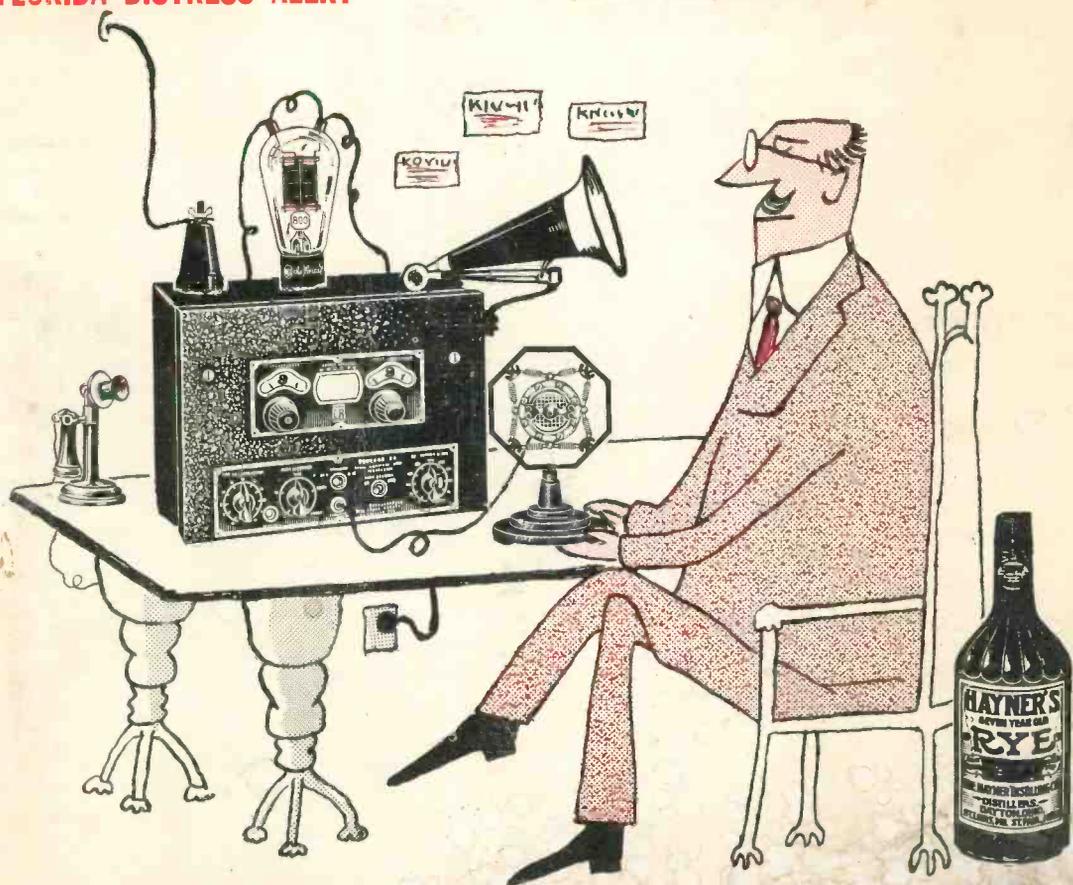
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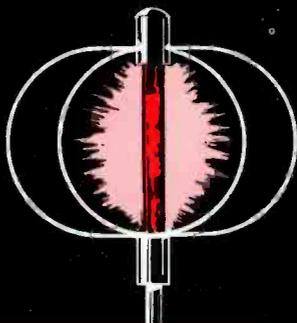
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LOW FREQUENCY POLICE STATIONS



The OFFICIAL CB RADIO MAGAZINE

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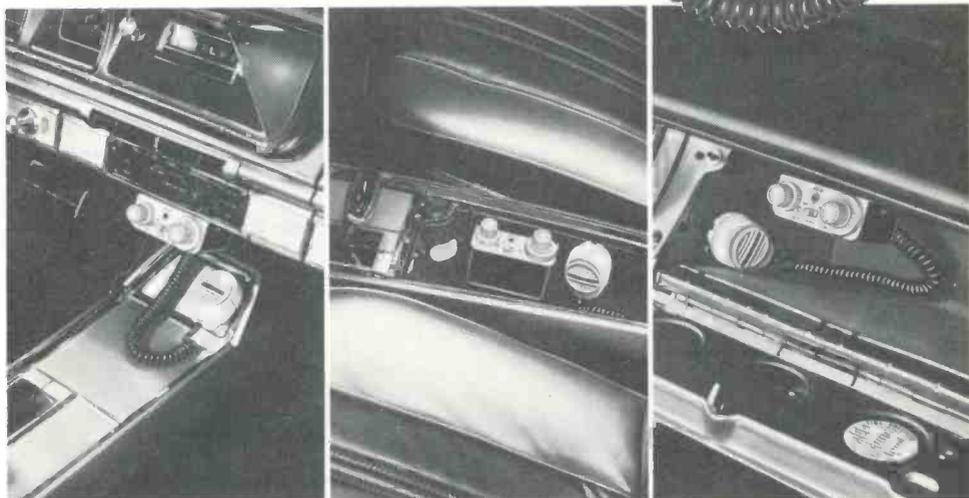


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August, 1966

S. R. COWAN, KBI7182, PUBLISHER

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* Automobile Mfg. Association H.E.L.P. Application Pending Before Federal Communications Commission.

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READER MAIL

BRICK & VAMPIRE BATS

Sir:

I have taken S9 magazine since the first issue came out. Will be glad to renew again if you will refund the \$1.25 that I spent on the Vampire Bat Antenna (April issue). If you can't make the refund then I don't want your magazine anymore.

F. Niederkorn, KEG2620
Tulsa, Okla.

Dear Sir:

Just one more smart deal like the Vampire Bat and you will be out at least a dozen subscriptions. We talked this over at our club meeting and it seems you made a lot of CB'ers unhappy, then in the June issue you came back saying how funny it was. Well it wasn't so funny to me. One more big joke and you can cancel my subscription.

John Raymond
Whitemore Lake, Mich.

Dear Mr. Kneitel,

April Fool jokes are for juveniles. My wife says that I should take the money that I would have spent on future subscriptions to S9 and use it to replace the money I spent on the Vampire Bat. The local CB club says they wonder what reaction your advertisers would have to the big joke on their customers. You said that CB Magazine is on the way out, maybe this will be the shot in the arm they need. Ha! Ha! Isn't that a funny joke!

R. B. Williams
El Paso, Tex.



Tom:

Your Vampire Bat inspired me to make my own Batmobile, per the enclosed photo. By the way, when I built the antenna I was able to copy 8 miles.

Kemper Mazzarelli, KKP5223
Eau Gallie, Fla.

Dear Tom:

When I read the Vampire Bat, it was a fine gag. I went ahead and built it anyway. Digging through the junk box, I put the thing together and—this is no kidding—I was able to copy a unit 26 miles away. I called my mobile units 5 and 9 miles away and did very well. Let them all laugh and call you names, but I'm satisfied with my Vampire Bat.

Glenn H. Ehlers
Wilkeson, Wash.

LET HERTZ PUT YOU IN THE DRIVER SEAT

Dear Mr. Editor:

I've put up with you and your magazine for quite a while now, living through some very harrowing experiences with the both of you. But all is forgiven and forgotten. You will ever be in my good graces. In regard to your stand against the dropping of the words "kilocycles" and "megacycles" in favor of "kiloHertz" and "megaHertz," I'm with you all the way. Your remarks against this perversion of the American Language by prideless, kowtowing, impractical, superconformists are indeed a light in the darkness, an oasis in the desert, and furthermore your keeping these words in S9 has insured the continuance of my subscription.

For nearly 20 years I subscribed to 5 leading electronics publications. As each of these changed over to Hertz, each was cut off. Thanks again.

Charles R. Noegel, KD11715
Miami, Fla.

Sir:

You will find that "kiloHertz" is used to replace the wording "kilocycles per second," abbreviated "kc/s." When I hear people using the terms "kc" and "mc" I figure they don't know too much.

Capt. David Hardiman, USMC, KPA0467
Monterey, Calif.

ACBA, WHAT DAT?

Tom:

Remember the American Citizens Band Association? I was a member at one time, but we seemed to have lost track of each other. Can anybody tell me if they are still around?

Roy Johnson, KBH2287
LaPorte, Ind.

We sure can't help you, Roy. They cut us off their mailing list when we began asking too many "touchy" questions about their operations.

"O.I."

Sir:

I noted your reference to "O.I.," CB interference to electronic organs. My husband is a

Continued on page 79



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Hallicrafters CB-20 "Reactor"—\$99.95!

Yours today—the ruggedest, cleanest, most powerful basic CB transceiver that ever rode the range!

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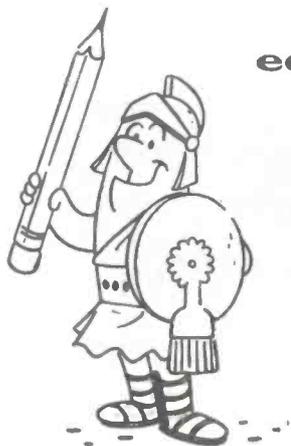
Two types of CB'ers buy Browning Eagle base stations. One is the novice who's determined to start with the best there is. The second is the old pro who switches to Browning after a costly trial and error period with "so-so" units. If you don't own an Eagle yet, it could be because you're still learning the hard way. For a quick lesson on the finest CB equipment available, visit your franchised Browning Service Center or write factory for free descriptive literature. Remember: it's better late than never!

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editorial

KBG4303 rides again!

by TOM KNEITEL
EDITOR, S9

NEW MEXICO

A few issues back we reported that there was a possibility that the "New Mexico Radio Control Commission" might be something for CB'ers to watch. It was a newly formed agency, and early word on it came from Ernie Walker in N. M.

Further word has been received on the agency, and it appears that they will not be operating in an area which will be of concern to CB operators.



CALLING ALL CAR FANS

Many foreign car fans wrote when I mentioned my 3.4 Jaguar here in S9. Well here's the latest along those lines. I've disposed of the 1958 3.4 Jaguar with the XK-E engine. Yes, a new car caught my eye one day and just couldn't resist the temptation. This time it's a 1960 Jaguar XK-150—white and quite sharp. Fellow that owned it was a CB'er and it's even wired up for CB, antenna and all.

FLORIDA JAMBOREE

Last year we went to the Florida National Jamboree sponsored by the Cape Canaveral CB Club, we had the greatest time possible and were able to eyeball CB'ers from as far away as Indiana. The Cape Canaveral Clubbers are just about the friendliest group going and the Jamboree was a smash success. We don't know if we will be able to make it down to our old home state of Florida again this year, but we'll try.

This year it's the 1966 Florida National Jamboree, August 12th, 13th, 14th, it's at Cape Kennedy (Cocoa Beach) and it looks like it's going to be even bigger and better than last year (if that's possible). For further information, rush a card or letter to Hugh Pinney, KOP0269, Cape Canaveral CB Club, P.O. Box 1195, Cocoa Beach, Fla. 32931. If you don't want to bother writing, just show up in Cocoa Beach with a CB rig during the jamboree, somebody will be standing by to help you out. The chicken dinner alone is worth the trip!

DOCKET 16474

Bet you never heard of FCC Docket 16474. We hadn't either until one day Suzie came running into the office, hands waving—tightly clutching a copy of said docket.

Seems that this is some new plot hatched by some evil genius on the banks of the Potomac. Should Docket 16474 be made into law, under certain circumstances each application proposing a new antenna site would have to be accompanied by a topographic map (showing exact latitude and longitude, elevation, sea level, height of the supporting structure). The map

Continued on page 80

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Cat. No. 239-120-1 In-Converter \$22.95 NET
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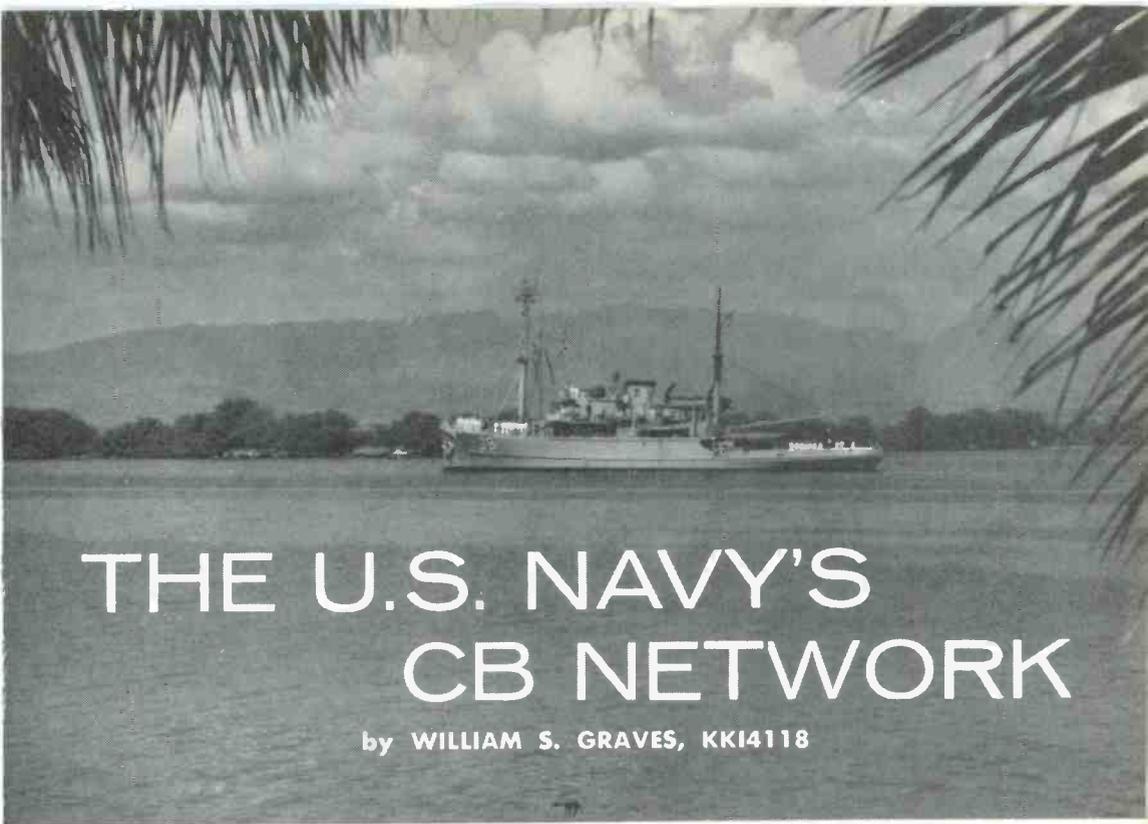
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THE U.S. NAVY'S CB NETWORK

by WILLIAM S. GRAVES, KKI4118

Ships of United States Navy carry thousands of dollars—sometimes millions—in communications equipment. But to the men of the Pacific Fleet repair ship *USS Conserver*, nothing in their ship's radio inventory has proved as useful—both on and off the job—as Citizens Band radios.

So convinced is the crew of the value of CB, that seven of the ship's complement of 120 men are now licensed CB operators. Two others have applied for licenses.

It all started last year when the ship was assigned the project of salvaging a small yard oiler that had run aground near Manila in the Republic of the Philippines. The 2,000 ton repair ship was given the task of refloating the Navy oiler, patching it up, and towing it to Guam—1000 miles away.

Chief Electrician's Mate Donald Thomas, KND2347, foresaw that there would be a communications problem between the *Conserver* and the repair party aboard the grounded oiler. The ships would be a good distance apart. The usual method of "talking" back and forth in this type of operation is by semaphore or "flag-waving." But it's a slow process that requires a signalman to be on constant watch aboard both ships.

So Chief Thomas borrowed a pair of 100 milliwatt walkie-talkies from the Special Serv-

ices Office at the Subic Bay Naval Base in the Philippines. The radios were for recreational purposes and were in demand by hikers who explored the area around the base during off-duty hours.

"It wasn't easy, but we got 'em," recalls Chief Brown. "And we used them throughout the entire operation without a single breakdown," he said.

No specially trained signalmen were required to get the word back and forth. Communications were simple and instantaneous.

When it came time to tow the oiler to Guam, CB radios were again the only equipment used to communicate between the two ships.

Conserver's Engineering Officer, Lieutenant (Junior Grade) Jim Frederick, KNS0012, broke out his five-watt transceiver and set it up on the ship's bridge. It was on during the entire trip. The crew of the disabled oiler was given one of the battery operated walkie-talkies. Whenever they wanted anything from the "mother" ship, all they had to do was ask for it.

And they did. On the first day out on the long cruise to Guam, the oiler ran out of drinking water. However, thanks to instantaneous communications, they were not dry for long.

Conserver was called to another salvage job last year where no walkie-talkies were available. "And we sure could have used them,"



Navy Electrician's Mate Second Class Jim Mixon, KMR7036, keeps his CB radio nearby during working hours as it is the base station for the crew of the repair ship USS *Conserver*.

said Chief Thomas. "They would have saved us many hours if we could have had an easy way to talk to the repair ship and get speedy action on equipment we needed. As it was we had radio communications, but it had to go through various relay points."

This was in the recovery operation involving the destroyer USS *Frank Knox* that went aground near Hong Kong in the summer of 1965. After 30 days of almost round-the-clock operations, the *Knox* was refloated with the help of the *Conserver* and other ships of the Pacific Fleet.

Conserver returned to her home port at Pearl Harbor, Hawaii, in late 1965. Soon after her return, the ship was directed to investigate the wreck of an old oil barge was that aground in 20 feet of water off the island of Lanai in the Hawaiian chain.

The oil barge had been abandoned for many years and it was *Conserver's* task to see if it could be pulled off its resting place and salvaged. Having had a couple of recent experiences at salvage work—one with, and one without the use of CB equipment—it was de-

ecided that walkie-talkies would again be used.

By this time, Chief Thomas had bought his own set of walkie-talkies. He made them available to the ship.

One radio was given to the commanding officer on the bridge of *Conserver*. The other was wrapped in a light plastic bag to protect it from salt water spray and rain. The salvage crew found that the plastic bag did not hamper the transmission of sound. They could talk right through the plastic with no problem. And the radio remained dry and protected.

The plastic-wrapped radio went into the boat with the initial boarding party. Going aboard the old hulk, they were able to report back to the skipper on just what the situation was as they were finding it in their exploration.

The skipper asked, "Can we get a hold on her anyplace?" The boarding party answered that all possible mooring positions had been rusted away. The decomposing old hull would remain where she was. It was beyond help.

All this was determined in the shortest possible time and relayed to the ship laying at anchor nearby.

When the salvage party had returned to *Conserver*, the skipper of the ship had already radioed to Pearl Harbor that they were returning to base as nothing could be done to the beached barge. Such swift determination of the situation could never have been possible if it had not been for CB communications.

Conserver is now in dry dock near Pearl Harbor having some repair work done before her next deployment to the western Pacific. As many of the ship's living spaces are torn up, much of the crew is living on a barracks barge moored near by. Others are living at home or in barracks at Pearl Harbor.

"Now is the time we really get a lot of use out of our little CB network," says Chief Thomas. "When we are spread out like this and usually without ready access to a tele-



Chief Electrician's Mate Donald Thomas, KND2347, passes a message to his ship the USS *Conserver* using the mobile unit of his shipmate, Chief Cicel Brown. Three of the ship's key officer and enlisted personnel have mobile CB units.



Chief Engineer Cecil Brown, KOV2017, is able to keep in touch with his ship, USS *Conserver*, at all times with his mobile Citizens Band equipment. Seven members of *Conserver's* crew of 120 are licensed CB operators and keep in constant contact by radio.



Engineman First Class John Collver, KNC3241, stands an evening watch by his CB radio and keeps in touch with his shipmates from the Pacific Fleet repair ship USS *Conserver*.

phone, our radios have proved to be the only way we can keep in touch with the ship and each other." And with a small ship like the *Conserver*, every member of the crew has an important job the requires him to be available at all times—especially when work is being done on the ship.

Lieutenant Frederick, Chief Thomas and Chief Engineman Cicel Brown, KOV2017, all have mobile as well as base units. Electrician's Mate Second Class Jim Mixon, KMR7036, keeps his unit on the barracks barge and functions as the base station for the ship. Others who hold licenses help Mixon by standing watch near the radio on weekends and holidays.

It is too early to tell just what lies ahead for *Conserver* when she again heads for the Western Pacific and possible duty in a war zone off Vietnam. But it can be assumed that future salvage work to which the ship is assigned will be greatly aided by the use of Citizens Band equipment as the ship is now buying its own set of CB walkie-talkies.



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Type Z-9R	— Transmitter	\$2.95	\$3.95
Type Z-13	— Transmitter	2.95	3.95
Type Z-13P	— Transmitter	2.95	3.95
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Type Z-13P	— Receiver	2.95	3.95

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- External speaker jack (de-activates internal speaker).

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THE NOISE EATER

THE ULTIMATE LINE-NOISE CRUSHER?

by DICK TURPIN, KCF2700

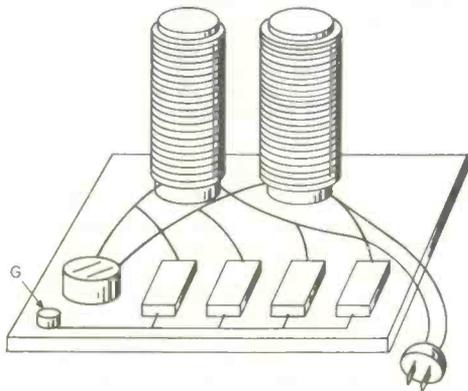
Ever find your CB'ing with that grinding buzz of noise which comes directly from the power lines? First thing you do is reach for the trusty noise limiter switch on the rig—you throw it and the noise level in the speaker drops to a level where you can live with it. But what about the CB signal you are trying to hear? Some noise limiters distort the audio, some reduce the sensitivity of the CB receiver, others do both.

The object then is to filter out the noise before it enters the CB rig, making it unnecessary for you to use your noise limiter. Many gadgets have been devised for this purpose, some have even been run in S9 (one similar in design to the NOISE EATER). None of these devices seemed to do enough of a job for the *severe* power line noise at my location, so I set about to come up with a better idea. The fruit of my labors is the NOISE EATER, it surpassed my expectations, it is easy and inexpensive to construct, and somebody ought to build and sell them because I've never seen anything its equal.

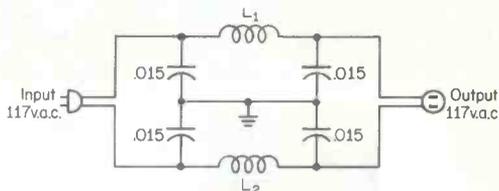
THE NOISE EATER

The NOISE EATER consists of two choke coils, each connected in one of the leads of the AC power line between the lighting socket and the transceiver. Each end of a coil is grounded through by-pass capacitors to shunt any stray oscillations to ground. The two coils are wound on fiber, plastic, or bakelite tubes that are about 6 inches in length and two inches in diameter.

The wire used to wind the coils is No. 18 gauge insulated solid wire and is wound in two layers of 100 turns each over a length of 5 inches. The DC resistance of each of the coils



Watch for next month's GIANT issue



PARTS LIST

- 4 .015 200 volt capacitors
- 2 2" diam. by 6" long coil forms
- 1 roll #18 solid enamelled wire (Lafayette 32-3289C)
- 1 ground post (Lafayette 32-6447)
- Misc.: plug, socket, chassis board, lamp cord.

will be less than 1 ohm.

To wind the coils, start near the end of the tube and wind a layer of 100 turns evenly and smoothly, then return by to the starting point after back-winding another 100 turns in the same direction (always away from you). This places 200 turns on each coil, with an inner and outer end of wire.

The 117 volt plug and wire connects to the outer layer ends of the coils; the two inner ends connect to the socket provided for the transceiver plug. There are no dead or blank ends of the windings.

CAPACITORS

The 4 capacitor arrangement requires 4 by-pass capacitors each having a capacity of .015 mf at about 200 volts. They should be arranged by pairs in series and connected to the ends of the coils as shown in the diagram. The inner common terminals are connected together, and this contact run to a common binding post.

CONSTRUCTION

Solder all connections, and tape with plastic electrical tape. The coils and parts can be mounted on a small wooden base. Round blocks fastened to the base support the coil forms in a vertical position by forcing the tubes down on the blocks.

To keep the coil wires from unwinding, make two small holes half an inch apart in the coil and pass the end of the wire in and out of these holes.

OPERATION

The ground for the unit should be a good one, and to a cold water pipe with a separate wire. Do not use the wire which grounds the CB rig. Plug in the rig, plug the NOISE EATER into the power line and you're in business.

S9

August 1966 • 15

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more
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**NEW
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New advanced Big Reach "RANGE PLUS" Circuitry in 23-Channel Dual Conversion 5-watt CB Transceiver.

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2 New CB "Best Buys" from EICO



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- 12 crystal-controlled transmit and receive channels.
- Complete tunable reception of all 23 channels.
- Adjustable squelch, noise limiter, TV1 filter.
- 3.5 watt public address, channel spotting, and Part 15 facilities provided.
- Variable "pi" network matches all CB antennas.
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EICO 715 HAM-CB TRANSCEIVER TEST SET

All Professional Self-Powered Test Set That's Designed for Complete Checking of Both Ham & CB Equipment.

- Control visual/aural indications of transmitter performance.
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- Built-in 50 ohm dummy load.

Kit \$34.95. Wired \$44.95.

For free 1966 catalog, write to EICO, 131-01 39th Ave., Flushing, N. Y. 11352

FCC FUNNIES

by HANK MILTENBERG

NOTES FROM FCC FIELD ENGINEERING REPORTS

Engineers from the FCC Boston district office, aided by the Commission's monitoring net, located and closed an unlicensed "broadcast" station having very unique programming. It intermittently retransmitted programs of a local broadcast station but interspersed them with unexpurgated live conversations between a husband and wife team. A mobile unit did the final tracking to a home where a husband and wife were totally unaware that they had been featured on the air. They helped in finding a transmitter hidden in their basement, and a microphone concealed under the dining room table. Their teen-age son, interested in communication-electronics and dissatisfied with frequent parental arguments, had taken this means to "air" his problem. This resulted in a highly unorthodox family situation drama. The FCC engineer, after giving appropriate warning departed with a definite impression that another form of husband-wife teamwork was imminent. In any event, that particular family series is now lost to radio and any possibility for TV.

A rare case of competition in unlicensed broadcast operation was revealed when engineers of the FCC Buffalo office closed down an illegal operation on 1600 kc which used the call letters "WINO". Little difficulty was encountered, and its 19-year old operator—a licensed amateur—was cooperative in answering questions. He seemed proud of his exceptionally well equipped studio and other facilities, which included an air-cooled final amplifier stage, power input of 150 watts, and an expertly-guyed 35-foot antenna. He volunteered the information that the FCC action had come just in time to avert a "RF War" because another illegal station—using the dual call "WCNG/WKRA" and operated by an acquaintance—had selected the same frequency and refused to enter a "time-sharing arrangement." Accordingly, the FCC engineers visited and terminated operation of the rival station. Verbal warnings were administered to the youthful competitors in the presence of their parents, and official letters of warning followed.

A member of the Maryland state legislature asked the FCC Baltimore district office to help identify the source of interference to his AM reception. He reported that the trouble was noticed only between 11 P.M. and 7 A.M. Two trips to his home failed to reveal the cause. However, the investigating engineer requested, and received, a tape recording of the interference. After listening to it the FCC investigator made another visit and quickly identified the culprit as an electric blanket which the complainant turned on each night after retiring. As the blanket warmed up, the noise on his also tuned-in radio increased. Though a bit

chagrined, the legislator was profuse in his thanks.

A research professor reported inability to cope with interference to his Channel 5 TV reception. Upon investigation, an engineer from the FCC San Francisco office reported a unique case in these technical terms: "A neighborhood hi-fi buff was using, in place of the usual 'tweeters,' a RF oscillator designed to operate on 27 Mc/s. The oscillator was screen-grid modulated by the audio output of an FM stereo receiver. The modulated signal, when fed into a quartz cell, caused ionization of air within the cell. As ionization varied, pressure within the cell varied in direct proportion to oscillator output. A small horn was used for efficient coupling of the pressure within the cell to the outer air. The RF oscillator was radiating a third harmonic causing severe interference to channel-5 TV over a wide area." The operator of the equipment seemed to understand this explanation for he agreed to take his hi-fi out of service until the undesired radiation could be eliminated. But this did not save him from a formal letter of warning.

A petition with 56 signatures was received by the FCC Los Angeles district office complaining of disruptive interference to TV reception. An engineer roamed the area in a mobile investigative unit. Signal strength comparisons and visual observations narrowed the search to a short piece of wire draped over a power line which contacted a crossbar brace. A power company crew brought quick remedy. The complainants and power company were equally pleased. The latter had spent about \$500 in previous vain attempts to locate the trouble.

The FCC's Santa Ana monitoring station and San Francisco district office collaborated in resolving interference to an intercity TV relay link to a college ETV station. When FCC engineers arrived on the scene the trouble had ceased. However, at the other end of the microwave relay system they determined that the annoyance was not from an outside source as reported, but within the relay receiving equipment itself. The unit was disassembled and the receiving reflector shielded, but the condition continued. It was only when an FCC engineer remarked that the interference appeared to come from an electrical heater that the operator revealed an internal heating unit in the equipment. A defective heating element in the combined reflector and tuning head was discovered. The FCC engineers departed after receiving embarrassed thanks for their find.

Responding to complaint of interference from a continuous unidentified signal, the engineer in charge of the FCC Los Angeles district office, after making quick directional check

with receiving antennas, started out to find the source. Taking bearings on the signal at various points en route, he traced it eventually to Johnstone Peak, a 4000-foot elevation in a national forest. There he found not one transmitter but four, each with a cluster of antennas, for operation in the industrial radio service. Since nothing was visible to identify the licensee, it was necessary to trip the circuit breakers in the power line outside the transmitter building one by one until the signal ceased. It required later inquiry to identify the licensee in order to serve violation notices for off-frequency operation and failure to deactivate the transmitter when not in use.

Naval air stations at Corpus Christi and Kingsville, Texas, complained of interference on a Navy frequency during a carrier landing drill off the Gulf coast. The FCC's Kingsville monitoring station confirmed that the source was local, since the signal was not heard by other monitoring stations. After taking bearings on naval stations participating in the landing exercise, Kingsville determined the unwelcome sound came from the Corpus Christi naval air station. The Navy was advised, searched the airfield and found an aircraft with a transmitter left on.

When advised by the FCC Dallas district office that an amateur had reported hearing a marine distress signal, the FCC Ambrose monitoring station alerted the direction-finding net which heard transmissions implying that a steamship was afire in the Gulf of Mexico. However, direction-finder bearings proved that

the signal was coming from the New Orleans area. This enabled the FCC New Orleans office to trace the calls to a suburban licensed amateur station. Its operator admitted the hoax calls that caused unnecessary alarm and expense.

While conducting general mobile monitoring operations in the San Francisco area, an FCC engineer received radiotelephone word from the San Francisco district office that Stanford University at Palo Alto was experiencing interference to its pulse radio operations from a radar-type signal. Using a microwave receiving horn as a directional antenna, the engineer obtained bearings from some of the higher elevations in and about the city and found that the signal was originating across the Golden Gate Bridge in the vicinity of Fort Baker. Army authorities there cooperated by ordering on-and-off tests of some 10 radar units. This proved that one of them was producing the spurious emissions.

Interference to the Massachusetts police radio network was sufficiently strong to completely disrupt communication. An engineer from the FCC Boston district office traced its source to a private home where it was found to be coming from the family TV set. Tests showed that tuning in Channel 12 caused the strongest radiation. The owner agreed to ignore that channel's programs until corrective measures could be taken. It was later reported that installation of RF filters on the AC power line, a high-pass filter on the antenna input and a telescoping shield over the oscillator tube resolved the problem.

\$9

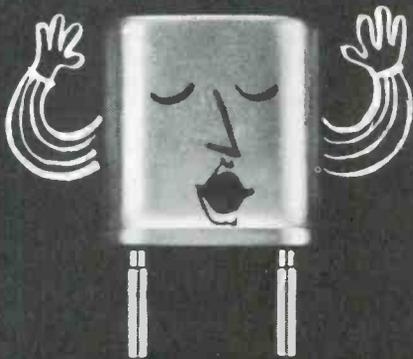
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I guess that's something like a lifetime guarantee. Let's call it that so that there'll be a degree of standardization in the industry.

BIG NEWS FLASH

lifetime guarantee?



Holy Crystal, Batman!

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What does this prove? That Amphenol units passed the toughest vibration and interference test we know of—and came through first in its class.

Chances are you won't be doing 130 mph down the straightaway without noise suppression on your engine. But when you need that little bit more you can depend on your Amphenol rig to have it.

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AMPHENOL

PEANUT WHISTLE RECEIVER

HOMEBREW RECEIVER PULLS IN CB

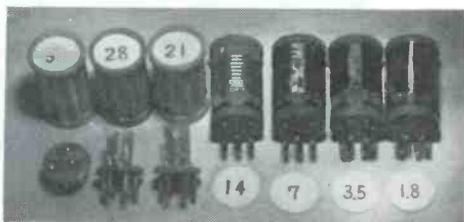
AND THE WORLD FROM 2 TO 66 MC/S

by HIJAME SUZUKI, JA1-3477

INOKASHIRA 2-33-12

MITAKA-SHI, JAPAN

Editor's note: Some months ago our company received a letter from a DX enthusiast in Japan. He had put together a tiny receiver with which he was able to hear the world—not an easy task for a 2 tube regen. A story on the set appeared in our sister publication, CQ, and proved to be an instant winner. To satisfy our curiosity we built one to see what it could do on 11 meters. It worked, and worked well! We thought that perhaps S9 readers would like to learn about this little set which has done such a good job. It's a sharp set for that extra CB receiver you have always talked about, and also a good way to start yourself on the way to monitoring emergency services, Hams, international broadcast, etc.

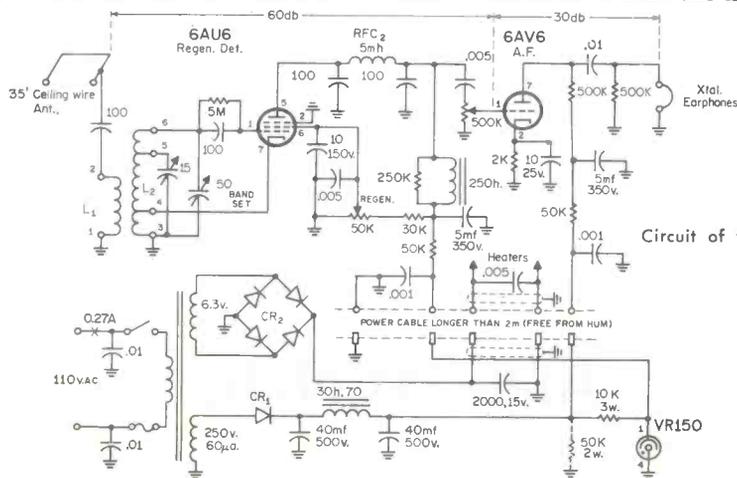


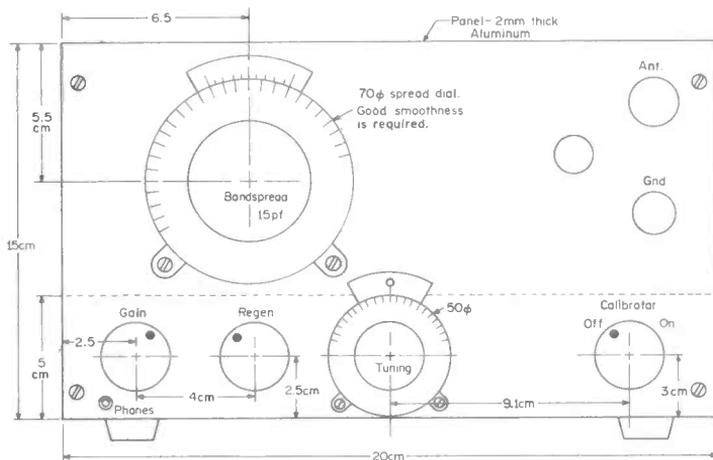
Some people ask me for a circuit diagram of my receiver, they almost never ask me nothing other than a circuit diagram. But could they make a good regenerative receiver as I did? They can not make a good one just by looking at the diagram, I hold. The simpler a receiver, the more difficult to build it. The number of turns of my coils are not theoretical ones but experimental ones with or without a signal generator (200 kc to 30 mc). I made the 3.5, 7.0 and 14.0 mc coils first without an RF generator. From the first time I intended to make surely solid-state coils, so I used 1 mm d.c.c. wire for the 7.0 and 14.0 mc coils. This is very important because the coils are the heart of the simple short-wave receivers. So I have 6 or 7 hearts

Coils for the receiver. The three higher frequency coils may be carefully wired in the socket or the bottom cut off the form, the coils installed and the form glued back in place. Adjust all cathode taps so to get the set to regenerate at about 1/2 setting of the regeneration potentiometer.

for my receiver. I tried but 50 mc is not so sensitive. 50 mc is a VHF band and we can soon realize that it is difficult to make a sensitive and stable circuit for VHF with low frequency techniques. The 50 mc/s coils are rather sensitive for a simple circuit.

Thinking simply I can get a voltage amplification of 140 times (47.6 DB) with the 7.0 mc/s coil so I could hear 127 countries on this band. I have now heard 202 countries. I made the 202 country mark last month with 176 confirmations. I think this is a new world's record





with a simple receiver according to one of the top Japanese DX'ers. I am very happy to report to you that I have now finished my main aim as an SWL. I used 50 months for this goal and spent about \$42.00 to collect QSL cards from 176 countries. If I will not stop SWL'ing, I'll probably be able to confirm 200 countries with my simple 2 tube regenerative receiver.

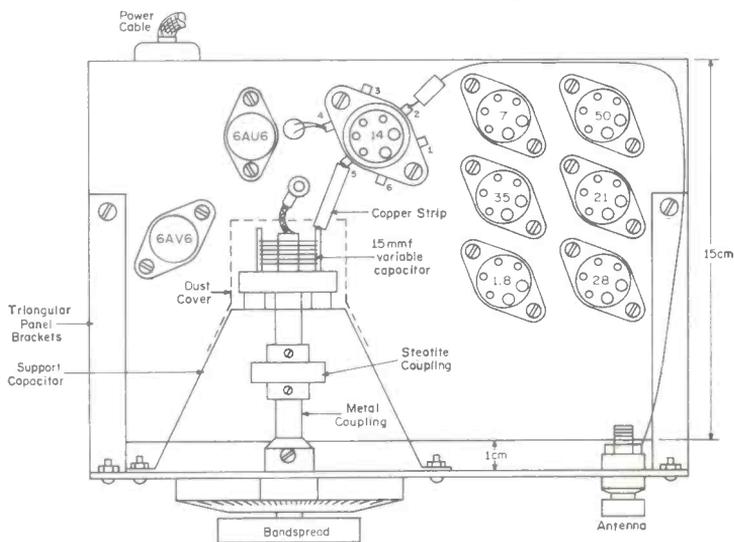
I live in a small house made of wood and have never tried the receiver in a concrete or steel house. My location is bad, noise-wise. My closest neighbors are only 50 feet away from my room and my house is surrounding many other houses. My family has only a very small backyard here. The antenna is a 33 foot wire under the roof of my house, at ceiling high. I use this antenna because the antenna vibration caused by the wind affects the stability of my receiver. I have a ground plane for 2 meters, 30 feet high and even this affects the indoor

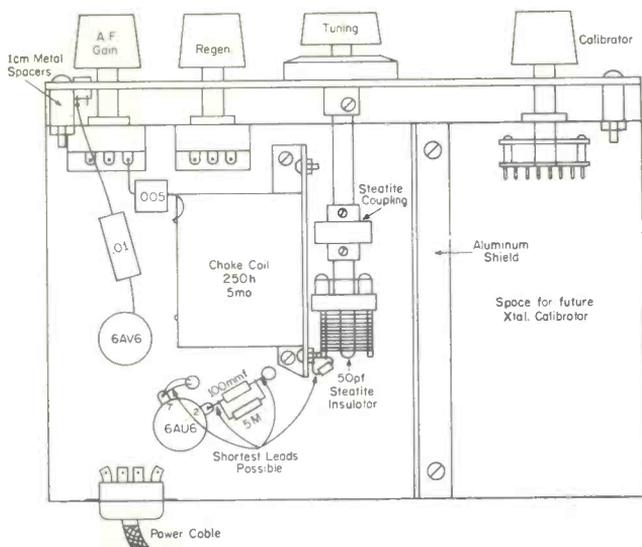
antenna. With this ceiling antenna and my simple receiver I heard and confirmed UA4-KED (USSR) on 7 mc SSB and heard the rare M1ZG on 3.5 mc/s CW. The receiver is very sensitive but is bothered by local man made noises caused by motors, fluorescent lamps, TV sets, radio sets, automobiles and other electrical appliances. I always unplug the BC set when I want to really get the DX. I use DC on the filaments. The radiation from TV sets is the worst.

I am building one of these receivers and expect to be listening in on you quite a lot soon. I will also be on 40 CW looking for you as soon as the antenna is up at my home. I will be running low power, using a long-wire. When I first started, I used a receiver nearly like this. My receiver used a 6D6 regenerative detector with a 6C5 and a 41 audio amplifier.

To use this receiver with a speaker, this unit

Top view of the receiver.





Bottom view of the receiver.

will need another stage of audio, such as a 6AQ5 or similar amplifier tube. By the way almost all of the parts for this receiver including the power supply and extra audio can be built from the parts in any old television set that you have laying around.

Don't spoof at the little set, you might be like the fellow that I was listening to the other night. He was running 30 watts and the fellow

that he was talking to was kidding him about his low power. The low power fellow asked him if he had ever tried low-power, and said he was having a bushel of fun working the bands with his peanut whistle. I have always believed that if they can get here with low power I would be ashamed to admit that I couldn't do the same.

TABLE I—COIL DATA FOR THE HIJAME SUZUKI RECEIVER

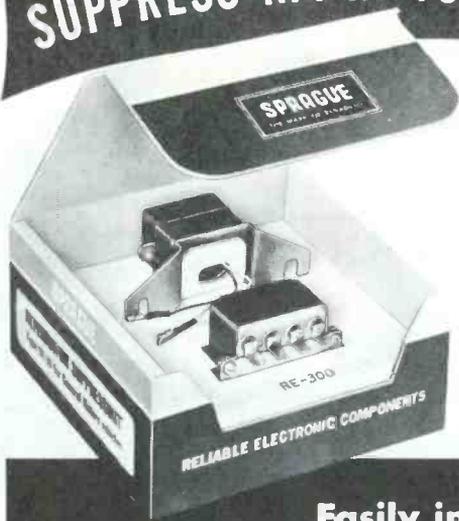
Freq. (Mc)	L ₁	L ₂	Cathode Tap†	Band Spread Tap†
1.8 (1.74-3.25)	4¼ t. #26e. 5mm from L ₂	72½ t. #24e. close wound	1 t.	None
3.5 (3.05-4.95)	4¼ t. #26e. 1-10 mm from L ₂	36½ t. #24e. 1mm pitch	¼ t.	None
7.0 (6.81-12.2)	4 t. #24e. 6mm from L ₂	20¼ t. #18e. 2mm pitch	¾ t.	12½ t.
14 (12.0-22.4)	4 t. #23e. 1mm pitch. 9mm from L ₂	9½ t. #18e. pitch 3mm	¾ t.	5 t.
21 (17.4-30.1)	2½ t. #20 tinned, 1.5mm pitch, 4mm from L ₂ *	10½ t. #20 tinned, 1.5mm pitch *	½ t.	6¼ t.
28 (21.6-40.5)	2-1/12 t. #20 tinned, 1.5mm pitch, 4mm from L ₂ *	7½ t. #20 tinned, 1.5mm pitch *	½ t.	4¼ t.
50 (36-66)	2 t. #20 tinned, 2mm pitch, 2.5mm from L ₂ *	6 t. #20 tinned, 2mm pitch, 10mm dia. *	1½ t.	3¼ t.

*Can be Airdux or equiv.

†Turns from cold (ground) end of coil. 1 inch = 22.4 mm (approx 3/64" = 1 mm)

All coils wound on 1¼" dia. 6 prong coil forms except where coil stock is used.

SUPPRESS RFI IN YOUR MOBILE RADIO GEAR!



SPRAGUE SUPPRESSIKITS FOR VEHICLES WITH ALTERNATOR SYSTEMS

Easily installed on cars or light trucks with citizens' band, amateur, industrial, or public service mobile radio equipment

★ Four different Suppressikits to choose from—Type SK-10 for Chrysler Corp. cars and trucks, Type SK-20 for Ford Motor Co. vehicles with FoMoCo alternators, Type SK-21 for Ford equipment with Autolite alternators, and Type SK-30 for General Motors Corp. vehicles.

★ Designed to fit most newer vehicles through the 1966 model year. (for older vehicles, see the SK-1 Suppressikit, below.)

★ Well-engineered L-C Networks and/or heavy-duty Thru-pass Capacitors handle the hash and eliminate the siren-like whine caused by the alternator output.

★ Extremely easy to install—no cutting, no soldering, no wiring harnesses. All components are neatly marked and packaged, and come complete with comprehensive step-by-step installation instructions.

★ Provide really *effective* interference suppression through 400 mc, at moderate cost.

★ Will stand up under continuous operation in hot engine compartments.

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Welcome again to the world of products, companies, etc.

First, here's word from General Radiotelephone Co. The outfit has just completed plans for a major expansion which will include manufacturing facilities and offices in Japan, marketing and consumer research facilities in Switzerland, engineering and research (in addition to manufacturing) at new plants in Burbank, Calif. The company will shortly introduce a new line of automated soldering machinery and etched circuits, in addition to transistorized products.



A new 23-channel solid state CB rig has been brought out by PACE Communications Corp., 24049 Frampton Ave., Harbor City, Calif. 90710. Called the "PLUS 23," the solid state unit features a receiver section incorporating the new MOS field-effect transistor in a double conversion design. Other features are illuminated S-meter, 22 silicon transistors, lifetime guarantee circuit boards, heavy noise clipping switch, PA feature, 100% modulation. Housed in a sturdy aluminum case, the PLUS 23 comes ready to operate on all 23 channels (via frequency synthesizer) for \$199.

Raytheon Co., Consumer Communications, 213 East Grand Ave., S. San Francisco, Calif. has it the market with a whole slew of new CB products. Leading off is the exciting TWR-9 base station. This unit offers a unique non-

communications external appearance, coupled with touch-tab tuning, such as is usually found on a tape recorder. Six push buttons select the channels, and the unit has decorator colors and a walnut veneer panel. There is no "microphone" as is normally known on a CB rig because it is incorporated into the loudspeaker and aimed towards the operator's mouth. The TWR-9 can also be used as an intercom in conjunction with a satellite unit (optional at \$9.95). Price of the TWR-9 is \$99.95.



Next on the Raytheon list is the TWR-11 mobile unit, featuring 10 push button channels. This is an all transistor set with a PA feature, also a space reserved for an optional selective calling device. A model TWR-11T is a variation with a fully tunable receiver. Price of the TWR-11 is \$159.95. The TWR-11T is \$169.95.

The TWR-8 is Raytheon's new entry into the high-powered walkie-talkie field. Running a big 2 watts of power, the TWR-8 weighs 2¼ lbs., has squelch, a noise limiter, 14 transistor construction, state-of-charge battery indicator, leather carrying case, earphone and case, ni-cad batteries and charger, crystals for Channel 11. Price is \$119.95, complete.

In the low power walkie-talkie market, they offer MW-3, MW-2, and AM-100 models. The MW-3 has 3 channels, and a tone-alert so that the speaker can be made to sound off when the matching set signals. Price is \$42.50 each. The model MW-2 is consumer styled with wood grain panel and chrome trim. Comes with leather case, handstrap, earphone, battery and set of crystals for \$44.95 per pair. The AM-100 has a single channel walkie-talkie coupled with a broadcast band radio for \$37.50.



The folks at Metrotek Electronics, subsidiary of Regency Electronics, Inc., 7900 Pendleton Pike, Indianapolis, Ind. 46226, have come up with a pocket sized converter called the "Listen-In." This features crystal controlled operation on any frequency from 25 to 175 mc/s, feeding the received signal into any broadcast radio without any direct electrical connection. Two models are available, a single channel set for \$19.95 and a dual channel unit for \$24.95.

Lafayette Radio, 111 Jericho Turnpike, Syosset, N. Y. 11791, has a model HB-555 25-channel dual conversion unit with range-boost modulation. This all-transistorized rig runs 19 transistors, 7 diodes, and 1 thermistor for a full 5 watts input. Features include a 455 kc/s mechanical filter, 3-position delta tuning, variable squelch, illuminated tuning dial, automatic series-gate noise limiter, modulation indicator, pi-network RF indicator, TVI filter. Set comes ready to operate on 23 CB channels plus the 2 pending H.E.L.P. channels. Price is \$149.95.

A new CB antenna from New-Tronics Corp., 3455 Vega Ave., Cleveland, Ohio 44113. The antenna, called the RTG-27, is a mobile antenna running a total height of only 25 inches and incorporates a chrome plated split ball at its base mounted on a heavy gauge chrome plated steel gutter clamp. Price is \$12.95.

S9 Lab

Reports

HEATHKIT GW-14 CB TRANSCEIVER

Apparently the home construction of CB gear is meeting with popularity, at least judg-

ing from the CB kits that are appearing on the market. Of these, the first transistorized job we've seen available for the CB set builder is the Heathkit GW-14, a 23-channel model wherewith the use of transistors not only results in a small package which operates with very low current drain, but which also makes feasible the use of a printed-circuit board to greatly simplify the assembly work.

Employing 14 transistors and 6 diodes, the GW-14 has rather straight-forward circuitry with provisions for instantly switching to any of the 23 CB channels that are controlled by individual receive and transmit crystals, rather than by a frequency synthesizer. Crystals may be installed for operation on all the channels, but in the event you don't require the use of *every* channel, you can keep the cost down by installing crystals only for the channels required.

High sensitivity and good selectivity are obtained with a 455 kc/s IF. The RF stage, ahead of the mixer, is protected with a diode against overload by strong local signals or by large RF voltages. Normal and amplified AGC is provided along with a noise clipper and an adjustable squelch. An unusual feature for transistorized gear is that there is an S-meter for the receiver. It also doubles as a relative power-output and a modulation-peak indicator. Both the meter and the channel-selector dial (with channel numbers) are illuminated. Two power-type transistors are used in push-pull for the AF power-output stage which also is used to modulate the transmitter. This stage is stabilized by a thermistor, in the base circuit of the transistors, to keep the gain constant with variations in temperature.

TRANSMITTER

The transmitter includes the usual lineup of a crystal oscillator, driver and final amplifier. Both the driver and the final are modulated; however, the coupling between the modulator and the transmitter is intentionally slightly mismatched in order to limit the modulation to just below 100% and thus eliminate overmodulation that could otherwise cause interference. The final amplifier operates at the full legal input of 5 watts with a high-efficiency harmonic-reducing twin pi-network circuit for matching the output to 50-ohm antenna loads.

The GW-14 operates directly from a 12-volt DC system with a negative ground. In the event the polarity of the source is accidentally reversed, a series-connected diode ceases to conduct and thus opens the supply circuit to protect the transistors from damage. The current drain on transmit is 750 ma (without modulation) and on receive or standby it is 120 ma, but where operation in the field using a portable battery is engaged, the standby drain may be cut down to only 60 ma by disabling the indicator lamps. This is easily done by opening a resistor jumper at the power-cable plug. Filtering is included in the DC input line to keep impulse noises, that may be introduced from the ignition system of the vehicle into the

12-volt wiring cables, from entering the set. A base-stand type of 120 VAC power supply, the model GWA-14-1, is available for operation from the AC power line at fixed locations.

CONSTRUCTION

As noted earlier, the GW-14 kit is furnished with a printed-circuit board on which the unit is to be assembled. Besides making the work easier, this hastens it and lessens the chances of wiring errors, since the major hookups are already provided by the printed circuitry.

All you have to do is to insert the leads of the various components through small holes in the board, turn the board over and solder the leads to the foil strips that make up the interconnections. Illustrated step-by-step instructions are provided and the component-side of the board is already engraved with identifications as to the location for the different parts. You just can't go wrong by following these simple provisions.

The mounting of other components on the panel is explained with detailed drawings. After the board is completed, you mount it on a chassis frame and make some wire interconnections to the other parts such as the controls which you previously have mounted on the front and rear panels, as indicated by drawings which specifically illustrate the various mechanical-mounting details.

In respect to the assembly work, we'd like to make the following suggestions: Read the step-by-step instructions carefully and do not be too hasty or anxious to get the work done at once. Do no more than one or two pages of work at a time and when you reach the end of a page of work, carefully recheck the work that has just been done. If you tend to tire, set the job aside to be continued at another time when you're fresh.

Examine all the soldered connections with a magnifying glass, particularly those on the circuit board, and make certain that solder has not flown across adjacent foil strips and thereby produced a "short" between them. The channel crystals must be soldered directly to the selector switch, so it will be best to order and install the crystals for the channels you require, before the set is completed; otherwise, you may have to work in close quarters around the switch if crystals are added at a later time. As an alternative for such cases, instructions are given in the manual as to how you can easily remove the switch to more conveniently install subsequent crystals.

Alignment can be readily accomplished using other signals when the receiver is to be adjusted, in which case the S-meter provides an accurate indicator of maximum performance. Proper transmitter alignment, while using a dummy load (furnished in the kit), is also indicated by the panel meter.

In order to find out what assembly difficulties might possibly be encountered, we placed the GW-14 kit in the hands of a CB'er to put together. It took him 17 hours to do the job and apparently no problems arose, nor were there

errors, inasmuch as the set worked properly right off the bat!

PERFORMANCE

The performance of the GW-14 measured up as follows: Receiver sensitivity: .3 uv for 10 DB S/N ratio (rated at .5 uv); Adjacent-channel selectivity: 35 DB (rated at 30 DB min.); Image rejection (not rated): 14 DB; AGC characteristic (not rated): 7 DB AF output variation with 20 DB input-signal change (1-10 uv) and 15 DB for 60 DB RF signal change (10-10,000 uv); Squelch sensitivity: .3 uv at threshold.

Operationally, performance in general was good, except for the noise limiter the effectiveness of which was somewhat less than desirable, but fortunately a modification, available from the manufacturer, improved the operation to an acceptable level. The squelch is very sensitive with instantaneous action and when it is set near the threshold, intermittent noise pulses tend to trigger it. Also, the threshold point varies somewhat and requires occasional readjustment with changes in battery voltage during different idling and faster motor speeds of a vehicle; however, it should be noted that such squelch performance is not uncommon with CB gear.

There is no provision for plugging in an external loudspeaker (the internal speaker is mounted at the side of the case), but where such operation may be more desirable, the speaker circuits could be routed through two unused terminals at the octal power-cable connectors on the rear of the unit.

The channel-selector dial window and that for the C-meter are quite small, so when the set is installed in a vehicle, it would be advisable to tilt it in a manner that provides the best visibility of the meter and the dial numbers.

The transmitter carrier-output power (rated at 3 watts minimum into a 50-ohm load) was 3 watts on all channels tested while using a battery potential of 12 volts, 3.5 watts with 13.2 volts. Good modulation was obtainable up to just under 100%, as rated, and ample mic gain was available.

The Heathkit GW-14 CB transceiver kit is priced at \$89.95 with push-to-talk ceramic microphone, gimbal-type mounting bracket with associated hardware, 46-page assembly/instruction manual and with crystals for one channel only—channel number to be specified when ordering. Crystals for other channels are \$1.99 a piece (two are required for each channel—one receive, one transmit) when ordered with the transceiver kit. Ordered separately, they are \$2.95 each. A complete kit (GWA-14-2) of crystals for operation on all 23 channels is priced at \$89.95, a considerable saving over separately purchased crystals for the same coverage. The transceiver is also available completely assembled and wired as Model GWW-14. It is priced at \$124.95 with crystals for one channel. The supplier of these products is The Heath Company, Benton Harbor, Michigan 49023.



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Yessir! The mailbag gets fuller and the time gets shorter. Let's not waste the time and see what we can do to the mailbag:

MORE ITV REPORTS

(Several months ago, we featured a query from a reader who was experiencing interference from a television set, and another from one who was picking up TVI from his CB receiver. Here's additional data, from readers, on these subjects.)

In regards to the article titled "Protection from Interference" I had the same problem for quite some time and did not solve it until quite recently. In this case it was MY TV set and MY CB receiver. After spending much time going through the CB set I discovered the cause quite by accident. My TV had a tone control on the front. When I turned the knob to the "bass" position for the first time in a year I found that this was my whole problem. I hope Mr. E.L. will find this helpful.

—S.R., Brunswick, Maryland

After reading the question from "E.L." I thought I would write in about a similar but not so serious problem. I have an "Admiral 23" TV about one year old and it puts out a signal strong enough so that it comes in on my CB set between 26.965 MC up to about 27.035. The strongest interference is at about 26.995. A friend of mine had a Lafayette HB-111 and his "Admiral 23" which is identical to mine also came in on his low CB channels. His TV also comes in on his hand-held transceiver, which is a Knight C-555. I wrote to Admiral about this problem and as you can see by the back of this letter, they don't have much to offer. I know by shielding the proper components on the TV this could be eliminated, but which ones? Any suggestions you may have will be greatly appreciated.

—P.J.D., Somersworth, N. H.

The writer of the second letter above forwarded his reply from the TV manufacturer's technical correspondent; they say "The interference that you explained in your letter is quite unusual, and we do not have a definite answer

or filter to handle this problem. This sort of difficulty indicates that either your Citizens' Band set is being operated too near the television set or else some type of filter is needed on your Citizens' Band set. Our high pass filter would not help with this type of problem." To which Paul adds the note that "I've had Motorola and a G.E. set in the same location and they never bothered." And to which I reply "hogwash!" (to the technical correspondent, that is). When two other makes of TV set perform properly, and the third does not, and when on top of this the third gives the same improper results for another user in another environment, then there's no escaping the fact that there's a serious design goof in that third set, and that the certificate of compliance with Part 15 of FCC Rules and Regulations which is required by law to be affixed to the set by the manufacturer is just about as meaningful as was the old "Made in USA" sticker on 1939-era toys turned out by the little shops in Usa, Japan! Since the polite approach has netted you an equally polite brush-off, you might try an informal query to the nearest FCC district office to find out if you have any recourse, as purchaser of the TV set, against the manufacturer for a meaningless certification. Or you might just wait and see how many more people climb into the act. Maybe we'll end up compiling a list of TV sets which are notorious interference-producers, and publishing same!

Now to the correction and cures. The first thing is to find out if the pickup of TV-set radiation is through the power leads, through the antenna leads, or by direct radiation. Disconnect any antenna from the TV set and see if the problem persists. If it does, try a line-cord filter on the TV. If this doesn't help, then try shielding the whole inside of the TV cabinet with aluminum foil, connected to a good ground such as a cold-water pipe. One of the three should do the trick. If the first one is the right one, insist on that high-pass filter, for it's what you need! The cures for the other two are obvious.

SECRECY (?) OF COMMUNICATIONS

I have followed your discussion of the legal aspect of QSL cards in CB; now I would like

to see your answer to the following hypothetical situation.

A mobile CB'er is parked in a shopping center parking lot waiting for his spouse. In addition to a CB transeiver, he is also monitoring the local police frequency with a converter. Suddenly an armed-robbery report is transmitted by the police, with the holdup scene identified as this selfsame shopping center. Almost immediately, and before any police arrive, the CB'er sees men answering the description of those involved in the holdup get into a car and drive off rapidly. A little later, the police arrive, but the robbers have fled.

The CB'er could have radioed a nearby REACT station giving information which could have led to the apprehension of the men. But could he have done so legally, since the police broadcast was not addressed to him?

I realize the moral obligation; what are the actual legal ramifications in such a case?

—W.H.M., Rockville, Md.

Fortunately, the answer is almost simple. There are only a few laws which the CB'er couldn't help breaking in this example, and in practice many of them might be overlooked. To start out, the federal secrecy-of-communications isn't really involved here. This is why: To violate the secrecy clause, the CB'er would have to do something which brought him some type of gain. So far as CBL cards are concerned, the expectation of a card in return is the gain. In your example, there is no gain—only public service. To carry the example a step farther, were the CB'er a free-lance photographer and had he taken a picture of the robbers making a getaway he would have committed no federal offense. However, were he to sell that picture to a newspaper (or even take it with the hope of selling it, if we want to split hairs) then he would have been in violation of Section 605 in principle at least.

But the situation isn't so simple. Many cities have ordinances prohibiting private ownership of receivers capable of tuning to police and other municipal frequencies. If his city had such a law, merely having the converter would put him in violation of it. And at the same time, if he merely kept his mouth shut and did nothing, he quite possibly could be considered an accomplice after the fact, since it's supposedly every citizen's duty to do all in his power to help in the apprehension of criminals.

I'm not going to worry about secrecy of communications much more until I hear that some action has been taken against the college student who took tape recordings of more than an hour of communications between Air Force One and the White House during President Johnson's trip to Hawaii, and released the tapes to the press. This is about as clear-cut a violation of 605 as anyone could hope to see, and were I to be charged with a 605 violation I would claim this event and the widespread publicity accompanying it as precedents.

But in your hypothetical situation, I think the safest all-around course for our CB'er would be to note down the license number and description of the getaway car, radio it to a

monitoring base station for relay to the police, and attempt to follow the handits at a discreet distance, maintaining a running report of their route to aid police in their capture. This might get him into hot water with his wife, but it could also make for good publicity for CB radio, and show the police that many of us want to help in any way we can. Okay?

CHANNEL "22A" INQUIRY

I recently purchased a transeiver which is equipped with channel 22A, however the channel selector will not hold in that position. I would like to know how to hold it in that position just like the other 23 positions. I have heard there is a way to do it but no one here seems to know how. Also what is the reason for installing 22A in the first place? My channel chart shows it is a business channel but most 23-channel rigs have it and when skip rolls it is really hot.

—K.Q., Clarksburg, W. Va.

Before I lose a reader I'll answer the second question: many 23-channel rigs use a technique called "frequency synthesis" to get the 23 channels. This lets them use less than 23 crystals, by adding and subtracting frequencies. In the process, they can hardly avoid coming up with the frequency known to skip workers as "22A". The manufacturers, however, are responsible people and so they rig the switches to prevent the channel selector from holding in this position (some even add a few wires to make sure nothing can work in this position). That's why the position is there, and it's also why you can't use it. Obviously, even if I knew how to un-rig the selector switch, I wouldn't publish this information. The frequency-synthesis rigs are not type-approved for business radio use (at least most of them aren't) and so cannot be legally used on this frequency. It's an outlaw channel so far as honest CB'ers are concerned—and you can be sure it's well monitored by the Commission whenever skip is in. Remember that anybody you hear on this channel can also be heard by the FCC ears, and the Commission uses tape recorders to help them sort out the callsigns from the garbage which clutters the channel. Just because you keep hearing them doesn't mean nothing is happening!

USING AN OSCILLOSCOPE

I have a standard 5-inch wide-band scope, and would like to use this to monitor the output of CB sets as well as to connect to the antenna to monitor incoming waveform and modulation envelopes. I realize this can be done by connecting to the IF stage of another receiver, however this is sometimes inconvenient. I would like a schematic of a small unit inserted between the antenna or set output, and the scope.

—E.H.A., Unionville, Mich.

Many scopes have direct-connection terminals for their vertical-deflection plates which can be located by removing a cover plate on the

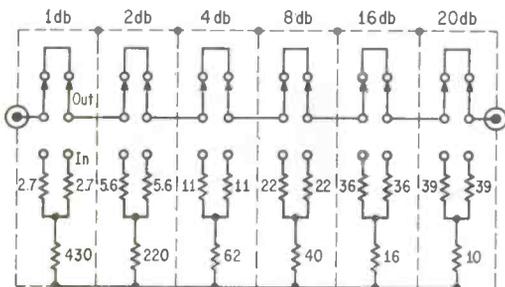
rear of the scope case. If yours does, all you need to do to hook up for monitoring your own transmitter is to take a length of "zip cord" AC line cord, split it back at one end for a couple of inches, form a two turn loop of the free ends, solder them together, and tape them to make a pickup loop, then connect the other end of the cord to the vertical plates of the scope, direct. The front-panel vertical gain controls then have no effect. The display isn't too large, but it's plenty big enough to be useful. I have used this trick up to about 150 Mc, and get an inch-high pattern on the screen at that frequency (lower frequencies should give a bigger pattern). The pickup coil is placed near the transmitter final tank coil; the closer it is, the bigger the pattern. For the horizontal sweep, connect the external H input of the scope to the top end of the modulation transformer in the rig. This gives you the trapezoid pattern you'll find in any book on modulation. If you use internal sweep, you'll get the waveform displayed—but this can be pretty confusing.

To monitor incoming signals, connect the vertical input (from the regular scope input this time) to the plate of your transceiver's last IF amplifier, and take the horizontal input from the detector load resistor. This should also give you the trapezoid, but it may point in a different direction.

TOO MUCH SENSITIVITY!

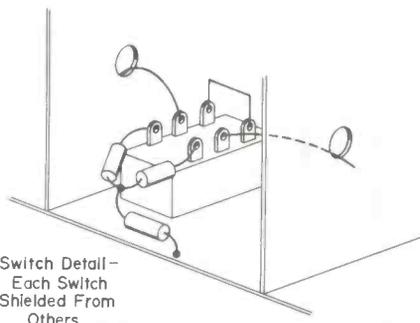
My problem is a receiver that is too sensitive. I have an HB-500 transistor set, and when skip interference gets bad I sometimes have trouble copying local stations. I don't have this trouble on my older Messenger. I think if I could put some kind of sensitivity control on the HB-500 it would help. What do you think?

—E.H.H., Sarasota, Fla.

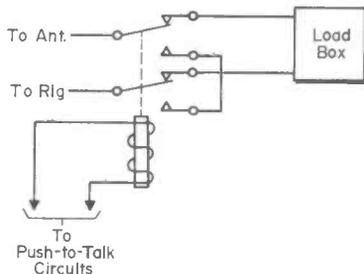


Use 5%, 1 watt Composition Resistors, Slide Switches.

You're probably right, but adding a new control to any set is a problem—and for a transistorized transceiver it's rougher than usual. Why not put in some external loss, to crank down all the incoming signals together? Somewhere near at hand there ought to be a schematic and a mechanical-assembly sketch for a handy little "loss box" which should fill your needs exactly. With all switches in the "out" position this is just an extra piece of wire in the lead-in. With any switch "in," the amount of loss asso-



ciated with that switch is inserted in the line. You can use any or all of the switches at the same time, so you can pick your loss values in steps of 1 db from none at all up to 51 db. The only problem with this approach is that you would insert the same loss in your outgoing signal. To get away from this you can rig up a DPDT transfer relay as shown in the second sketch to short out the loss box on transmit, and leave it in the circuit when receiving. Incidentally, a loss box like this lets you give accurate S-unit reports by cranking in DB of loss until the meter reads some standard value such as S9. The db over S9 can be read from the switch settings, once the signal is knocked down to an exact S9 level. This is a laboratory technique but works well in practice too. It applies any place you might want to measure relative gain.



WILL CROSS-POLARIZATION WORK?

I am confused about antennas and their polarization. I've heard that vertically polarized antennas will not be able to receive a transmission from a horizontally polarized antenna and vice versa. It doesn't seem to make any difference on a BCB radio. Could you explain this for me and all the other CB'ers?

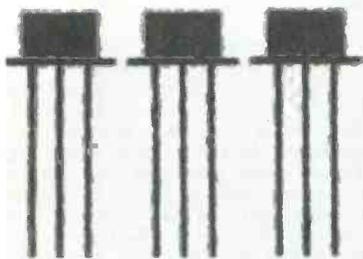
—J.K., East Peoria, Illinois

You're not alone in your confusion on this point. If anyone reads the theory books, alone, and doesn't bother to check it out in practice, he will insist that it is not possible for a vertical transmission to be received on a horizontal antenna. But, as you point out, it doesn't seem to make any difference on a BCB radio. In fact, it makes very little difference anywhere in the spectrum below around 30 Mc, and doesn't get to be a real pressing problem until

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you're well into UHF. If it did, rabbit ears could never receive TV, since our TV transmissions are horizontal and rabbit ears come closer to being vertical than anything else. What happens is this: At the lower frequencies, where wavelengths are longer, the polarization gets twisted around very rapidly after leaving the transmitter. No matter what you transmit, by the time it reaches the receiver it's a mixture of vertical, horizontal, right circular, left circular, and a little of everything else as well. The lower the frequency, the more scrambled the polarization gets, so on BCB reception you'll never know the difference. By the time the frequency gets up to the 11-meter band, you can tell some difference, but in practice it's seldom more than about 6 db for us (roughly, one S-unit). In the TV region, the difference is more pronounced, and when you get into UHF, then you do in fact have situations in which you can put two different signals on the same frequency into the same space and still keep them separate by transmitting one vertical and the other horizontal. Does this just add to the confusion, or does it help a little?

This brings us just about to the end of the space for this month. I'm still in the market for questions. How about yours? Send it to me % S9, 14 Vanderventer Avenue, Port Washington, L. I., N. Y., 11050 (don't forget that Zip code), and then all you have to do is wait. See you soon . . .

S9

Everyone's Talking About

TALKPOW'R

THE GOOD AUDIO PROCESSOR



You can join the crowd for yourself.

\$17.95 is all it takes at your dealer (direct orders take \$1 more for postage and packing).

Penny-pinchers and do-it-yourselfers can get the complete kit for \$14.95 or the circuit board alone for \$2 postpaid.

And dealer inquiries are invited for our whole line.

E.C.A.

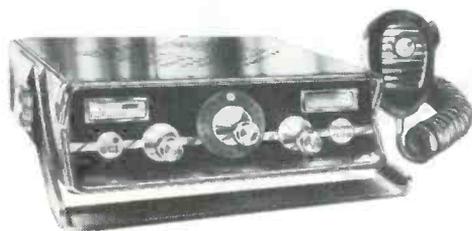
1236 Northeast 44th St.
Oklahoma City,
Oklahoma 73111

\$169.

Courier's 23-channel solid-state CB rig. Guaranteed for 10 years!

Look for everything you've ever wanted in a CB rig in Courier's TR-23S. Silicon-transistors throughout bring the size down to 5¾" W x 6¼" D x 1⅞" H. Crystals supplied for all 23 channels. Complete with microphone. Illuminated S meter. Illuminated channel selector. PA system. Auxiliary speaker jack. Single-knob tuning. Modulation indicator. DC cord. Exclusive Courier "Safety-Circuit" to protect against mismatched antenna, incorrect polarity, and overload.

Plus the biggest guarantee in the business—*10 full years!* See it at your Courier dealer, or mail the coupon for full data.



S68

 **COURIER COMMUNICATIONS, INC.**
A Subsidiary of
electronics communications inc.
56 Hamilton Avenue, White Plains, N. Y.

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

Name _____

Address _____

City _____ County _____ State _____

FLORIDA

DISTRESS

ALERT!

by **GEORGE WEBB, KEJ7214**

Hundreds of miles of Florida's twisting coast line is under constant surveillance by the valiant men of the State's Conservation Patrol led by Lieutenant William Saunderson, district supervisor.

A fleet of boats from 16 feet to 32 feet, equipped with Pearce-Simpson's Companion 11-5 channel Citizens Band two-way radio, maintain a constant radio watch monitoring for CB equipped boats in distress and "stand by" as long as 15 hours a day in rough weather. Particularly useful during the hurricane season, 70% of its rescue service is in ocean waters and the remaining 30% in

bays, inlets and waterways. CB distress signals are picked up by the patrol and relayed to base police radio stations who, in turn, contact the Coast Guard. The system has proved to be highly effective for South Florida boatsmen.

Saunderson states that he utilizes his Pearce-Simpson CB equipment, not only to facilitate rescue operations but, also, to maintain contact with the commercial fishing fleet, police activities and as race control in the area's many ocean sailboat and powerboat regattas.

S9



Florida's State Conservation Department maintains a CB network between base station, automobile and its fleet of boats. In addition, CB channels are monitored in rough weather to assist vessels in distress.



The Florida State Conservation Department, Sixth District, has a fleet of boats ranging from 16-32 feet which monitor CB channels in rough weather.



Contact is made between one of the Florida Conservation Department's fleet of boats and base station on a Pearce-Simpson Companion 11 CB.



Florida's State Conservation Department maintains a network of Companion 11 CB two-way radios between base station, automobile and its fleet of boats. In addition, CB channels are monitored in rough weather to assist vessels in distress.



For sale:
the Courier CB rig we built for the boss.

If you owned the company, you'd have the Engineering Department build you the best CB rig ever built. That's just what Courier's boss did.

He had them start with hand-wired, hand-soldered circuitry. Tubes instead of transistors (including a Nuvistor), and a big chassis, with plenty of space for cooling (it was needed for that overpowered transformer). He wanted all 23 channels, with all crystals provided. He insisted on the three important receiver characteristics: selectivity, sensitivity, and quietness (using a Collins Filter, cascode front end, and an adjustable noise limiter). And to make certain that this rig would get out, engineering had to invent a new exclusive range-expander and speech compressor.

By the time engineering got through, they had a custom CB rig that nobody could buy. It was so special they presented it to the boss in a purple velvet pouch.

The boss was delighted. And then he had an idea: make more of these special CB rigs and sell them as the top of the Courier line. Identical in every way. Every spec.

Every bit of hand work. Even the purple velvet pouch.

So we did. We call it the *Courier Royale*. If your dealer is fortunate enough to have one to sell, ask him to show it to you. Or write for complete information.

How much will you have to pay for a Courier Royale? Just \$249 complete (and we mean *complete*)!

S68A

 **COURIER COMMUNICATIONS, INC.**
 A Subsidiary of
electronics communications inc.
 56 Hamilton Avenue, White Plains, New York

Please send me the brochure about the CB rig you built for the boss: the Courier Royale.

 Name

 Address

 City County State

COMING EVENT CALENDAR

3rd Annual Jamboree sponsored by the Bell City CB Radio Club, October 1st and 2nd, Rain or shine. Lake Compo, off Route 72, Bristol, Conn. Contact: P.O. Box 753, Bristol, Conn.

2nd Annual CB Round-up sponsored by the Echo CB Club, City Park, Elkins, W. Va., August 14th. Contact: Bailey Curtis, Elkins, West Va.

Annual CB Picnic, August 7th sponsored by the Mt. Top CB Radio Club to be held at Herrington Manor, near Oakland, Maryland. Contact: W. D. Webster, Jr., Box 56, Aurora, West Va.

1966 Round-up, Site: Fort Waynes Coliseum, September 18th, sponsored by the Maumee Valley CB Radio Club. Grand Prize, Color TV. Contact: P.O. Box 1031, Fort Wayne, Indiana.

Cowan Ass'n Jamboree and Dance. Dance September 24th, Jamboree, September 25th. Further info contact: O. W. Clawson, Box 38, Cowan, Indiana.

The Cape Canaveral CB Club will sponsor their 3rd Annual Florida National CB Jamboree, August 12th, 13th and 14th. For more info contact: P.O. Box 1195, Cocoa Beach, Florida.

The Bergen County CB'ers of Fairlawn will hold their Annual Jamboree, August 14th at Sun Dance Lodge, Route 46, just off Route 23 Circle, Fairfield, New Jersey.

Twin Rivers CB 3rd Annual All State Jamboree at Addison Jamboree Grounds, August 13th and 14th with the usual western programing. Camping facilities available. Contact: Twin Rivers CB Club, P.O. Box 184, Addison, New York.

The Central New Hampshire 1st Annual CB Jamboree will be held August 28th, State National Guard Armory, Route 202, east Concord, N. H. Monitor channels 9 and 11. Contact: James Hall, 41 McKee Dr., Concord, N. H.

Evansville Citizens Radio League Jamboree, Sunday, August 7th, Rural Youth Center, 7 miles north of Evansville, Ind. Grand prize, Color TV. Contact: Carl R. Arvin, R.R. 1, Box 227, Evansville, Indiana 47712.

Staline Channel Masters CB Club, CB Jamboree, Sunday, September 18th, Geriaks Farm, Intervale Rd., Stamford, Conn. Exit 35 from Merritt Parkway. Contact: P.O. Box 587, Port Chester, New York.

The Troy Area CB Radio Club will hold their 2nd Annual-Donkey Ball Game and CB Field Day, Sunday, August 14th. The event will be held on Williams Road off Route 4, Troy, New York. Monitor channel 9.

The Chester County CB Club Jamboree will be held at the National Guard Armory, Chester, South Carolina, Saturday, August 27th and Sunday, August 28th. Contact: James E. Odem, 140 Dupree St., Chester, S. C.

Circus City CB'ers will hold their 3rd Annual Jamboree, Sunday, August 28th at 4-H Fairgrounds, Peru, Indiana.

3rd Annual Rocky Mountain CB Jamboree, August 20th and 21st at the Jefferson County Fairgrounds, 15200 West 6th Ave., Denver, Colo. The event is sponsored by the Metropolitan Denver CB Radio Club. Contact: Bud Fuller, 3141 So. Santa Fe, Drive, #35, Englewood, Colo.

The Sheriffs Huron County Emergency Net is holding its 4th Annual Weekend for CB'ers at the Huron County Fairgrounds, Norwalk, Ohio, August 20th and 21st. Contact: S.H.C.E.N., Box 201, Norwalk, Ohio. Monitor channel 9.

6th Annual State of Maine CB Jamboree, sponsored by the Standby Club of Biddeford, Maine, Sunday, August 7th, Stickney Lodge, Route 35, Goodwins Mills, Maine. Activities all day. Contact: Paul LaFlamme, 35 Gove St., Biddeford, Me.

The Citizens Radio Ass'n of Crawford County Inc. is sponsoring their 3rd Annual Jamboree, September 4th, at the Crawford County Fairgrounds which is located on Route 77 just east of Meadville, Penna. Contact: C.R.A.C.C., Box 356, Meadville, Penna.

The Kenosha CB Radio Club will hold their 3rd Annual CB Cornroast and Jamboree, August 7th, Kenosha County Conservation Club, Highway AH, ¼ mile west of Highway 45, just 1 mile south of Highway 50. Contact: Al Despin, Route 1, Box 174, Kenosha, Wisc.

The K.V.C.C.'s 4th Annual Jamboree to be held, August 5th, 6th and 7th at Nitro City Park, Nitro, W. Va. Contact: Kanawha Valley Communication Club Jamboree, P.O. Box 8393, So. Charleston, W. Va.

The Valley County '57' Waters CB Club of Glasgow AFB, Montana and the Plains CB Club of Regina, Saskatchewan, Canada, will hold their 1st Annual Camp-out Jamboree, July 1st, 2nd, 3rd and 4th at Cypress Hills Provincial Park in Saskatchewan, Canada. Contact: Willie R. Gupton, 398 B Hickery St., Glasgow AFB, Montana.

2nd Annual Jamboree, sponsored by the Marshalltown Corn Belt CB Club, August 6th and 7th, Isaac Walton League Club House, Marshallton, Iowa. Contact: P.O. Box 274, Marshallton, Iowa.

The Auburn Radio Monitoring System is holding a Coffee Break, July 17th under the 4-H Pavilion at Emerson Park on Owasco Lake, Auburn, New York.

Tri CB Club Jamboree, August 14th at American Legion Park in Houtzdale, Penna. Contact: Tri CB Radio Club, Route 350, Phillipsburg, Penna.

Lake Countys CB Radio 2nd Annual CB Jamboree August 12th, 13th and 14th, Lake County Fairgrounds, Highways 45 and 120. Contact: P.O. Box 251, Waukegan, Ill.

The Metropolitan Area Radio Club and Radio Associates of Montgomery County, Md. will jointly sponsor a CB Jamboree, August 14th, at Marshall Hall Amusement Park and picnic grounds, south of Washington, D.C. Contact: Jim Reed, 10714 Douglas Ave., Silver Spring, Md.

Mid-American Radio Stations CB Club is sponsoring a Jamboree, August 6th and 7th at the American Legion Post #162, 9305 S. Broadway, Lemay, Mo. Contact: Ray Wendt, 4360 Ellenwood, St. Louis, Mo.

The Citizens Radio Club of Rochester will hold their 2nd Annual Rally, August 28th, Barnard Exempt Grounds, Rochester, N. Y. Contact: Tom Rhodes, 401 Brayton Rd., Rochester, N. Y.

North Georgia CB Club of Dalton, Georgia will hold their 4th Annual Hootnanny CB Jamboree, Dalton, Georgia, Highway 71, north 5 miles north of Dalton, September 3rd, 4th and 5th, 1966.

First Annual N.A.C.B. Camp-oree, Willow Creek, California, August 13th and 14th. The event is jointly sponsored by the Northern Ass'n Citizen Banders and the Redwood Citizen Banders, Inc Contact: N.A.C.B., P.O. Box 864, Arcata, Calif.

Spa Ten Four's CB Jamboree, September 25th, Kaydeross Parak, Saratoga Lake, Saratoga Springs, New York. Rain or Shine. Monitor Channel 9.

4th Annual CB Jamboree, Saima Park-Richardson Road, Fitchburg, Mass., September 18th. The event is sponsored by the Radio 23 CB Club, Inc. Contact: P.O. Box 133, Fitchburg, Mass.

The Five-Eleven Radio Club, Inc. will hold their 6th Annual CB Family-Picnic, Sunday, August 28th at Cabana Beach, Route 519, south of Bridgeville, Penna. Monitor channel 9. Contact: Dan Heagy, 868 Glass Run Rd., Pittsburg, Penna. 15236.

2nd Annual CB Jamboree, Sunday, July 24th, Meadow View Acres, Canton, New Jersey. Sponsored by the Bridge-Ton-Ears CB Radio Club. Contact: Meadow View Acres, Buckhorn Road, Canton, R.D. 2, Salem, New Jersey.

MONTHLY REPORT— PROJECT S9'er



Project S9'er is a program of awards in recognition for public service duties performed by individual CB'ers and CB Clubs. Clubs and persons wishing to participate should submit a detailed report giving the complete details of specific emergency commission services performed. Club entries must be signed by the club president. Individual entries must be signed by the submitter and co-signed by at least one other licensed operator. All entries will be considered, and outstanding ones will receive a special certificate. Every 2 months we will review the certificate winners and issue a plaque to the one which in the opinion of our judges shows the best CB public service. Once each year we will award a trophy to one of the plaque winners. There is no limitation on the number of entries that may be submitted, as each entry will receive a separate certificate and will be considered for plaques and the trophy.

Name and call sign of each certificate recipient will be announced in S9. Plaque winners will be announced with a resume of their winning deed. Address all reports to: Susan Henriksen, Project S9'er, S9 Magazine, 14 Vanderventer Ave., Pt. Washington, N. Y.

This month's Certificate winners are:

Kenneth Smith, KMR6808, Starkville, Miss.
 Al Christopher, KMR4321, Starkville, Miss.
 Earl Aldrich, KPM1434, Toledo, Ohio
 Highway Radio Patrol of N. J.
 Bruce Wheeler, KKB3596, Fitchburg, Mass.
 Herbert S. Progin, Jr., KMA8213, Leominster, Mass.
 Arthur C. Seney, Jr., KKB0320, Fitchburg, Mass.
 James Geisser, KMA6357, Lunenburg, Mass.



OUR BOYS OVERSEAS



Card sent in by KNM3486

Please do a good deed for some lonesome GI's in Vietnam and send a QSL card or letter to all of the following CB'ers who are fighting for your right to be free:

A1C N. J. Van Heste (KNM3486)
 AF 16583001
 Box 155
 DET 0300 601 TCS
 APO New York 09035

Sgt. Raymond C. Batton (KNM7922)
 411543 USMC
 Headquarters & Maint. Sqdn. 36
 Metal Shop
 FPO San Francisco 96602

Sp/4 John L. Taylor
 RA 19721945
 149 Ord. Co.
 APO San Francisco 96312

Psg Glenn E. Septer
 4216-3 Neely
 APO Seattle 98731

Robert Kinsella (KMD0647)
 R-Division
 USS BASILONE, DD-824
 FPO New York 09501

Ssg Joseph R. Halloway (KKK2856)
 15252912
 512th Eng Co (DT)
 APO San Francisco 96358

SP/5 Irving W. Thompson (KKK2840)
 11291168
 USNS CORPUS CHRISTI BAY (T-ARUH-1)
 U.S. Forces 96312

We invite readers to submit the names and addresses of other CB servicemen in Vietnam (or anywhere else overseas) for publication in S9. Special Vietnam subscription rates are now in effect.



NEW! H.E.L.P.

FOR SALESMEN, HOUSEWIVES,
VACATIONERS, MOTORISTS

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2-Way Radio
Communication ...



5 3/4" x 4 3/8" x 1 1/2" FITS IN GLOVE COMPARTMENT

CITI-FONE II is designed for use with your car radio and modification or dismantling of the radio is not required. The standard car antenna (with matching accessory) can be used.

\$49⁹⁵
Complete
with crystals
for one channel

SOLID STATE
9 transistors—2 diodes
5 watts input — 100%
modulation. Operates
directly from cars' 12
volt system.

TO BE USED
IN ACCORDANCE WITH PART 95 F.C.C. RULES AND REGULATIONS

Mail Today for Complete Information!



Please send further information on
"Citi-Fone II".

NAME _____
ADDRESS _____
CITY _____
STATE _____ ZONE _____

ANOTHER FIRST for



21470 Coolidge
Oak Park, Michigan 48237

MULTI-ELMAC COMPANY

THE IDEAL
way to utilize your existing receiver for entertainment or for two-way radio communications with superior performance at a cost far below conventional units.

S U Z I E S E Z . . .

SEND ALL ITEMS
AND PHOTOS TO:
Suzie Sez
% S9 Magazine
14 Vanderventer Ave.
Port Washington, N. Y.



by **SUSAN HENRIKSEN**
Assistant Editor



Hi girls!

This month's YL QSL card winner is Carolyn Conklin, KPM2517, of Decatur, Michigan. Her card is pictured above. Thank you Carolyn and congratulations.

We have a few birthdays being celebrated during the month of July that I did not have room to run previously and I would like to mention this month. Ruth Jones celebrated her birthday on July 2 and her husband Jim, KLO-2529, celebrated his on July 17. Also, their anniversary is July 20. Mr. and Mrs. Jones are from Zeeland, Michigan.

Dee Rupright and her husband, Clarence, KPM1763, are new in the CB field. They are the parents of 8 children: 5 girls and 3 boys. They have been married for 14 years on February 9. Dee's birthday is on the 4th of July. The Rupright's are from Marion, Ohio. Congratulations folks.

I received this letter from one of our readers in Illinois, Miss Judy Adamson, who asked me to run it in my column, so here it is, Judy:

Dear S9:

Being new to the world of Citizens Band Radio, I wanted to let you know how thrilled I am to be a part of it. I recently purchased a Ray-Tel TWR-7. I am waiting

to apply for my license, as I am soon moving to another state.

If you would permit me to do so, I would like to thank publicly the person responsible for introducing me to CB. His name is Doyle Wenzel, from Washington State. We attended school together for a short while. Thank you Doyle, dear KLD1429. Someday soon I shall have my own call—

Thanks S9,

Miss Judy Adamson

1010 "A" Street, Qtrs. 165N

Scott Air Force Base, Illinois 62225

I received a note from one of our Canadian readers, Mae Coleman, XM491440 who wants to say hello to all the YL's and XYL's of CB land in the U.S.A. Mae also sent in a recipe she thought you girls might like to try, so I've printed it below:

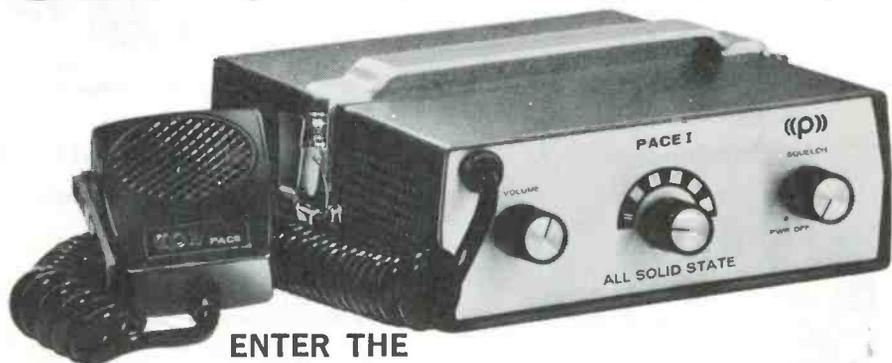
DAD'S COOKIES (Canadian)

- 1 cup of butter
- 2 cups of brown sugar (cream together)
- Add 2 eggs and beat well
- Add 1½ cups of coconut
- 2½ cups of fine rolled oats
- 2 cups of flour
- 2 teaspoons of baking powder
- A pinch of salt
- Roll into ball size of a walnut and press down with fork.

Well girls, till next month this is all for now. Don't forget to send me any news you may have about yourselves, clubs, activities, etc.



You may win **a PACE I** **SOLID STATE CB RADIO**



ENTER THE

PACE APPRECIATION SWEEPSTAKES

This "Appreciation" Sweepstakes is our way of saying "THANK YOU" for making PACE the new leader in all solid state Citizen Band 2-way radio. Because of your overwhelming acceptance of PACE products, we have become the fastest growing company in the field... in less than 3 years.

THE MOST COMPLETE LINE OF ALL SOLID STATE TWO-WAY CB RADIOS

 <p>2 watt hand held PACE MATE</p>	 <p>6-Channel mobile PACE I</p>	 <p>12-Channel mobile PACE II</p>	 <p>12-Channel mobile with S-meter PACE II-S</p>
 <p>23-Channel complete PLUS-23</p>	 <p>Prestige base station PACE 5000</p>	 <p>Prestige mobile PACE 5000</p>	 <p>Prestige portable PACE VPH</p>

PACE APPRECIATION SWEEPSTAKES

1st PRIZE PACE I TRANSCEIVER



2nd PRIZE
PACE 5803
POWER SUPPLY



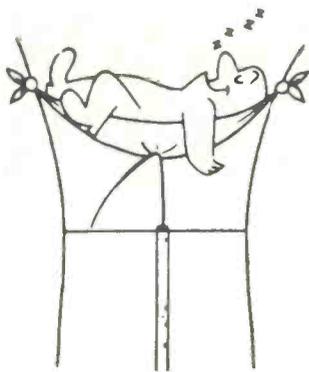
12 ADDITIONAL PRIZES ONE YEAR SUBSCRIPTIONS TO S-9



All you have to do to enter the Appreciation Sweepstakes is detach and fill out (please print) the entry blank below. Fill out each blank—write "none" where no answer applies. Then mail it to PACE COMMUNICATIONS CORP., P. O. Box "P", HARBOR CITY, CALIFORNIA 90710.

RULES: PACE Communications has reserved the described gifts for lucky winners, selected at random. Employees of PACE Communications Corp., or persons less than 21 years of age shall not be eligible. Entries must be received by September 15th, 1966. This sweepstake is void outside the U. S., and wherever prohibited, taxed, or restricted by law or regulation. Any taxes applicable to a prize are the sole responsibility of the winner.

NAME _____	CB CALL _____	MY CB OR SPORTS CLUB IS _____
ADDRESS _____	ADDRESS _____	ADDRESS _____
CITY _____	STATE _____	CITY _____
STATE _____	STATE _____	STATE _____
NEAREST CB RETAILER _____	MY PRESENT CB SET IS _____	
ADDRESS _____	MY NEXT SET PURCHASE WILL BE IN _____ MONTHS	
CITY _____	STATE _____	MY FIRST CHOICE OF SETS IS _____



CORNERING THE SIGNAL

"I would like to know if you could tell me anything about a corner reflector antenna that could be used on the CB band."

That request came from KMA0069. And in calculating the answer we arrived at two conclusions. One is that a corner reflector is capable of whopping gain. It can multiply power within a narrow direction some ten times that of normal. But the second answer lays to rest any idea of using a corner reflector for CB.

If you've seen corner reflectors for UHF-TV antennas (Fig. 1), you know they resemble a wide-mouthed screen. And its dimensions are measured in inches. But for CB operation, each side of the reflector might have to extend as far as 37 feet . . . with the opening some 17 feet. Unless you have a huge piece of real estate, and can erect that mechanical monster, corner reflectors at this time must be considered impractical.

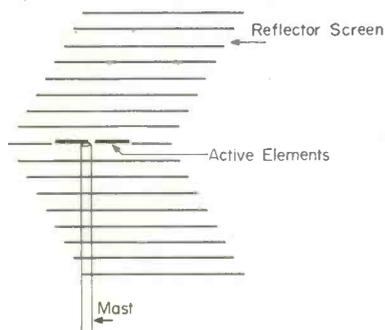


Fig 1- Corner Reflector

But maybe we could take a tip from the moon men. Many antennas for space are broadbanded; that is, they work efficiently and with good gain, over more than a narrow band of frequencies. One antenna does the job of many. Transfer the idea of broadbanding to 27 mc and maybe some antenna maker can come up with a novel "combo" job for the CB'er with other interests. How about a dual-purpose unit, say, for CB-Shortwave, or even CB-Ham?

ANTENNAS

by LEN BUCKWALTER, KBA4480

PINPOINTING OBSTACLES

The range of a CB antenna not only depends on its gain, but on the nature of surrounding terrain. Even the potent signal from a big beam might stop in its tracks at a towering obstruction. You're probably familiar with high points around your home, but there's another method for detecting them. It's with a data-packed map put out by the federal government, the kind used by another group with a keen interest in obstacles, namely airplane pilots. These maps are prepared in great details for every section of the country. And they're available to anyone for the asking at a piddling cost of just a quarter.

The maps are filled with fun-to-read facts like which way to fly when you're above 3000 feet. But they also include much topographical information for the CB'er. For example, you can tell at a glance where the terrain in your area rises or falls simply by the map's color. Points at sea level are green, but the tint becomes progressively lighter as the land rises.

More specifically, the map gives actual elevation in feet at important points. Contour lines tick off rises of 250 feet. Thus you can study the map and get a fair idea of where your signal is apt to be shadowed, or allowed to run free out to the horizon. And if luck is angled your way, you'll find your antenna located on a white area—which represents the highest elevation of all. The map also reveals bluffs, depressions, even swamps and glaciers. How to identify these features is described in great detail on the back of the map.

While you may not be able to do much after discovering a signal-killing escarpment say, 8 miles away, the map could come in handy for temporary communications you might set up in the field. Just search the map and park your net control mobile at maximum elevation.

The maps (more properly called "charts") are available in two forms; Local and Sectional. Try to get the Local type since it blows up an area most of all. In some areas, however, you'll have to settle for the Sectional version. You can obtain one at your local airport or by writing to: Director, Coast and Geodetic Survey, U.S. Department of Commerce, Washington 25, D.C.

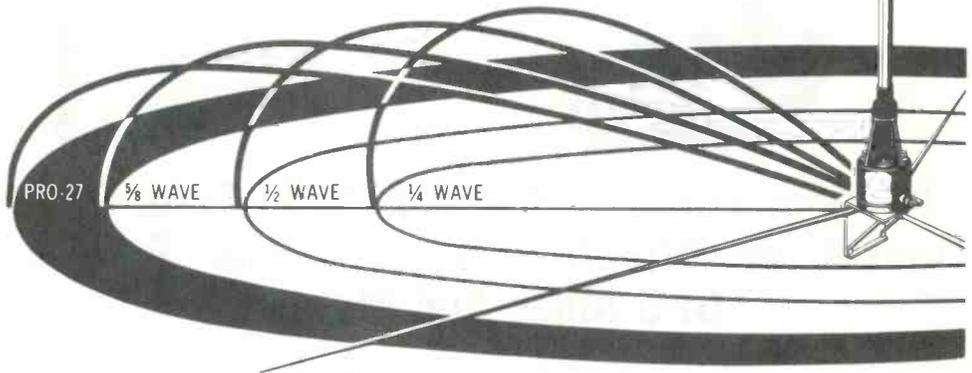


HUSTLER^{T.M.}

PRO-27

CB BASE STATION ANTENNA

Gives Up To **20%** Greater Area Coverage



PRO-27's low angle concentrated power provides stronger signals over a greater area than any other collinear.

ELECTRICALLY SOUND... MECHANICALLY SUPERIOR

- Get more *circuit gain* with a PRO-27... it's in a class of its own. PRO-27 is the *only* omni-directional CB base station antenna designed with this unequalled ability. Its .64 wave length radiates lower angle, concentrates more power further than any $\frac{3}{8}$, $\frac{1}{2}$ or $\frac{1}{4}$ wave length radiator.
- Because the PRO-27's capacity-hat is near the bottom, it gives proper electrical extension, base impedance correction and a lower angle of radiation. Unique tunable feed system within the base permits perfect matching with any feedline length. Electrical match places the PRO-27 base at DC ground for static removal and lightning protection.
- PRO-27 boasts high strength non-drooping radials and a strong $1\frac{1}{4}$ inch diameter vertical radiating element to withstand extreme weather conditions. Attached to a rugged die-cast aluminum irradiated base with $\frac{3}{16}$ inch steel mounting bracket, the PRO-27 is more dependable, more secure than any other CB antenna.

For maximum communications, readability and dependability . . .
insist on Hustler base and mobile antennas.

SEE YOUR DEALER TODAY

"Another NEW-TRONICS Original"

6290-A

NEW-TRONICS corp. / 3455 Vega Avenue
Cleveland, Ohio 44113

SOLID TEAM!



5-watt



1-watt

Together These HEATHKIT® Solid-State CB Transceivers Offer You "Fixed-Mobile" Ranges Of 5 Miles And More!

You Hear A Lot Of Powerful Talk, when you get these two team-mates together . . . even though they may be miles apart (5 or more). With the new GW-14 23-channel, solid-state 5-Watt rig as the base station, and the GW-52A solid-state 1-watt Walkie-Talkie free to roam at the mobile end, you're assured of maximum versatility for base/mobile/portable operation. And you'll appreciate the way they shorten the time and distance for more efficient sports, business or personal communications.

And The 5-Watter Is Great As A Mobile Unit. Its compact 2 7/8" H x 7" W x 10 1/2" D size fits nicely in a car, boat, jeep, tractor . . . any 12 v. neg. gnd. source. The 1-watter works extremely well with a car-mounted mobile antenna . . . even recharges from your car's 12 v. battery through a special cord that plugs into the cigarette lighter. Get Full Details in the FREE Heathkit catalog . . . or better yet, use the coupon to order now.

At A Glance!

Kit GW-14, 5-Watt Transceiver, 8 lbs. . . . \$89.95

- 23 crystal-controlled transmit & receive channels
- 14 transistor, 6 diode circuit draws only 0.75 amps transmit, 0.12 receive • "S" meter, adjustable squelch, ANL, built-in speaker, PTT mike, aluminum cabinet.

Factory Assembled GWW-14 \$124.95

Kit GWA-14-1, AC power supply, 5 lbs. \$14.95

23-Channel Crystal Pack (46 crystals) \$79.95

Kit GW-52A, Walkie-Talkie, 4 lbs. \$69.95

- Crystal-controlled transmit & receive • 10 transistor 2 diode circuit • Includes \$20 rechargeable nickel-cadmium battery • Built-in 117 v. AC battery charger • Adjustable squelch, ANL, aluminum case, earphone, crystals (specify).

Kit GW-52-2, pair . . . Save \$10 only \$129.95

Use must comply with Part 95, FCC regulations



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ODDS 'N ENDS

by **HERB FRIEDMAN, KBI9457/W2ZLF**

One of the favorite subjects for an article in an electronics magazine is something along the line of "How to get started," or "How to equip a shop," or "The basic equipment." Whatever they want to call it, the idea is to fill space with as many pictures of equipment as is possible, and to talk the reader into buying several hundred dollars worth of test equipment.

Unfortunately, the one who benefits the most is the dealer who sold the test gear, rarely does the reader who follows the "How to buy" article get his monies worth. In fact, I have an extensive collection of high priced test equipment that was purchased for as little as one cent on the dollar from electronic hobbyists who discovered they had no need for wide-band oscilloscopes, frequency meters, distortion meters and the like.

Fact is, the average hobbyist, experimenter and CB'er can get by for years with less than fifty dollars worth of test gear. All he really needs is a VTVM (vacuum tube voltmeter) and a *signal tracer*. That's right, a signal tracer; you generally won't find this item on a list of "recommended equipment." Think for a moment, why these two items. As far as the VTVM is concerned it's the *universal tool*, measuring ohms, and AC and DC voltages. In most instances these three values are all that's needed to indicate if equipment is working right.

The signal tracer takes a little more thought. Most electronic hobbyists are concerned with equipment that eventually produces sound. A transmitter, of course, sound. A receiver, the same. An amplifier, certainly. Few hobbyists are concerned with non-sound equipment, and they, generally, are so far advanced in electronics they've accumulated a lot of specialized equipment over a period of years. The average hobbyist deals with sound, so he needs equipment that indicates when sound starts and stops, and whether it's distorted or *clean*; and the gear that indicates these features of sound is the signal tracer.

The signal tracer is basically a high-gain AF amplifier with a detector probe for RF circuits. Receiver dead? Okay, connect the RF probe to the antenna input and you'll hear a jumble of signals through the tracer. Move on to the first convertor, now you hear a single signal. The IF strip checks out okay. Set the tracer to "AF input" and check after the detector—whoops, no sound; therefore, the trouble is in the detector. Hook up the VTVM and you spot the defective component.

Got modulator distortion? Simple. Yak into the mike and move the signal tracer's probe from the mike input through the modulator circuits. Soon as you hear a distorted signal from the tracer you've got the trouble-spot located.

As long as the experimenter deals in sound handling equipment, the VTVM and the signal tracer are the basic tools. True, one cannot align a receiver with a signal tracer, a generator is needed, but how many of you are going to plunge into home-brew realignment of a \$300 receiver? It's cheaper to let a qualified shop do the job. You can buy five years of "experienced technician alignments" for the price of a decent signal generator.

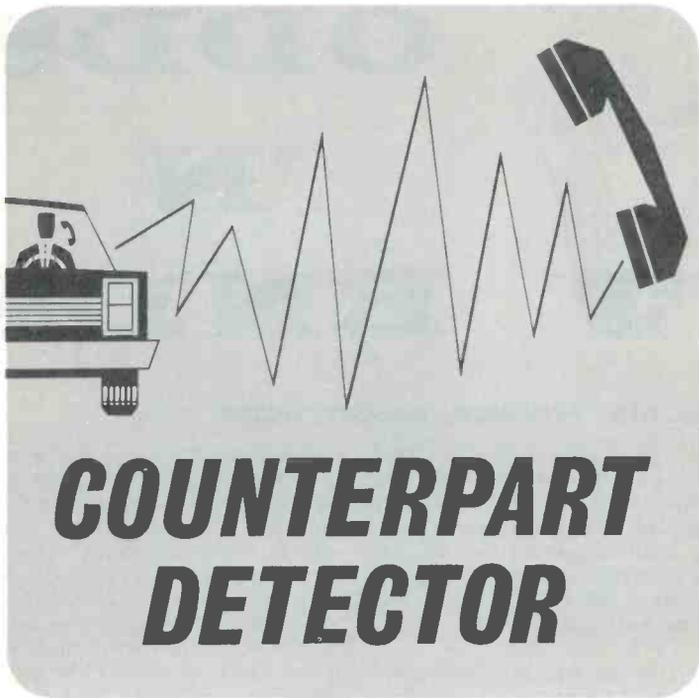
Don't get me wrong. Test equipment is invaluable—but only if you have the need, *and the experience* to use it properly. To the beginner getting started in electronics, esoteric test gear is not only more trouble than it's worth, it often, because of inexperience in its operation, leads the beginner into errors of judgment.

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Continued on page 79



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CARD SWAPPERS UNLIMITED

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

- SACA 314 P. Kilray, KJF0255, Washington, D. C.
315 B. Worthington, KGC0630, Denver, Colo.
316 L. Litchford, KMV4210, Oklahoma City, Okla.
317 G. Stires, Clinton, N. J.
318 D. Getgood, KLN6367, Sanford, Mich.
319 A. Arthur, KKA2191, S. Weymouth, Mass.
320 D. Conder, KNJ4430, Centralia, Illinois
321 S. Spencer, KOX3540, Whittier, Calif.
322 J. Guernsey, KNJ0361, Salina, Kansas
- PX-25 611 S. Salack, KPQ0719, Kingston, Pa.
612 B. Worthington, KG C0630, Denver, Colo.
613 J. Forbing, KHC2683, Ft. Wayne, Ind.
- PX-50 525 R. Knautz, Chicago, Illinois
526 B. Worthington, KGG0630, Denver, Colo.
527 J. Forbing, KHC2683, Ft. Wayne, Ind.
- PX-75 411 B. Worthington, KGC0630, Denver, Colo.
412 L. Downey, KLN9916, New Miami, Ohio
413 B. Fortino, KNA2350, Stockton, Calif.
414 J. Forbing, KHC2683, Ft. Wayne, Ind.
415 D. Nager, KOD0761, Bronx, N. Y.
- PX-100 376 D. Rhodes, KLQ0343, Pittsburg, Pa.
377 B. Worthington, KGC0630, Denver, Colo.
378 B. Fortino, KNA2350, Stockton, Calif.
379 R. Grenon, KBC8333, Pawtucket, R. I.
380 V. DeMeis, KOG0240, Philadelphia, Pa.
- PX-125 287 Bill Worthington, KGC0630, Denver, Colo.
288 R. Saltsman, KLN6383, Solineville, Ohio
289 S. Jones, KLO0519, Lawrenceburg, Ky.
- PX-150 230 B. Worthington, KGC0630, Denver, Colo.
231 L. Litchford, KMV4210, Oklahoma City, Okla.
232 D. Getgood, KLN6367, Sanford, Mich.
233 R. Saltsman, KLN6383, Solineville, Ohio
- PX-175 196 B. Worthington, KGC0630, Denver, Colo.
197 D. Conder, KNJ4430, Centralia, Ill.
198 D. Rook, KMA0295, Windsor, Vt.
- PX-200 171 C. Durland, KMP1465, Chuluota, Fla.
- PX-250 193 S. Spencer, KOX3540, Whittier, Calif.
- PX-375 104 B. Ross, KCG1087, Oxon Hill, Md.
- PX-400 106 C. Marx, KLF1859, St. Paul Pk., Minn.
- MSA 226 D. Bellask, KMD0428, Brooklyn, N. Y.
227 C. Rogers, KMA9261, Middletown, Conn.
228 D. Getgood, KLN6367, Sanford, Mich.
229 A. Arthur, KKA2191, S. Weymouth, Mass.
- 230 S. Spencer, KOX3540, Whittier, Calif.
231 H. Fosse, 20Q2793, Bloomsburg, Pa.
232 H. Beesley, KNJ4674, Chicago, Ill.
233 C. Durland, KMP1465, Chuluota, Fla.
- SSC-1 240 B. Worthington, KGC0630, Denver, Colo.
241 S. Jones, KLO0519, Lawrenceburg, Ky.
242 Wm. Light, KMA2652, Norwalk, Conn.
- SSC-2 182 B. Worthington, KGC0630, Denver, Colo.
183 W. Snyder, KNJ8343, Belleville, Ill.
- SSC-3 148 S. Spencer, KOX3540, Whittier, Calif.
- SSC-4 134 C. Marx, KLF1859, St. Paul Pk., Minn.
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- SSC-7 116 H. Fosse, 20Q2793, Bloomsburg, Pa.
117 D. Theisen, KNM0810, Norwalk, Ohio
- SSC-35 101 B. Ross, KCG1087, Oxon Hill, Md.

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

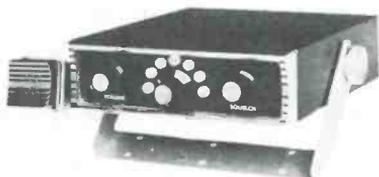
Here are this month's swappers:

- 1Q1170 Dick Nelson, 565 Long Hill, Groton, Conn.
1W6216 Errol Engraving, 36 Hampden St., Westfield, Mass.
2Q0152 Karl Weiss, 245 Ashmore Ave., Trenton, N. J.
2Q1147 George Delaney, 308-47th St., Union City, N. J.
2Q6980 Jon Morgan, 144 Wilson Ave., Kearny, N. J.
4B5372 Elj Cross, 755 South Potomac St., Hagerstown, Md.
5Q2178 Elwyn Beam, Vale, North Carolina
5Q2917 W. R. Coe, Haw River, N. C.
6Q0054 Glenn Poore, P. O. Box 6101, Chattanooga, Tenn.
6Q0946 Dave Jones, P. O. Box 1335, Maryville, Tenn.
7Q1117 Annie Graham, 1025 North K St., Lake Worth, Fla.
11Q1313 George Strainline, 1171 W. Miracle Mile, Tucson, Ariz.
19A8145 Gene Hecht, 26 Sheridan, Pontiac, Mich.
19Q9470 Adrian Fallert, 121 N. "C" St., Hamilton, Ohio
19Q9941 Martin Ripper, 7617 Cavell, Garden City, Mich.
20Q1360 Ivan Smith, 419 Water St., Danville, Pa.
KAA4564 Geo. Thayer, A303 Iroquois Drive, Salamanca, N. Y.
KAG2020 Ardis Johnson, P. O. Box 169, Wingdale, N. Y.
KAK0958 Jerome Hines, 318 Hart St., Brooklyn, N. Y.
KBA5557 Ted Cummings, Bellflower Rd., Billerica, Mass.
KBA8387 John Hornyak, 1192 Norman St., Bridgeport, Conn.
KBA8595 Lee Aspinall, 20 Forest Ave., North Haven, Conn.
KBB0471 Fran Smithwick, Box 62 - Rt. 1, Ellington, Conn.
KBC0264 Everett Decker, Box 44, Westfield, Mass.
KBC6229 Paul Conant, 139 North Main St., Florence, Mass.
KBC6510 Ralph Bryant, 716 Riverside Dr., Fairfield, Conn.
KBC7679 Robert Huguenin, U. of Pitts. Dorm., Titusville, Pa.
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 KKK4512 Jake Sprouse, Rt. 6 - Box 279, Charlottesvile, Va.
 KKK5253 James Blythe, Box 354, Conway, N.C.
 KKK6850 Byron Pepitone, P.O. Box 3096, Chula Vista, Calif.
 KKM2052 Linton Slappey, P.O. Box 52, Plains, Ga.
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 KKM7376 Donald Wilson, 1529 Bush Blvd., Birmingham, Ala.
 KKM7788 Claude Witt, 814 S. Webb Ave., Crossville, Tenn.
 KKM8296 Archie Hudgins, Rt. 2 Ward Mtn. Rd., Shannon, Ga.
 KKM9266 Raymond Bobo, Route 2, Murfreesboro, Tenn.
 KKN2985 Charles Martin, R.F.D. 6, Harrison Pike, Cleveland, Tenn.
 KKN3002 Robert Miller, 1430 N. Houston, Athens, Ala.
 KKP1645 Henry McLeod, P.O. Box 126, Perry, Fla.
 KKP3353 Tom Luchin, 421 75th St., Miami Beach, Fla.
 KKP4260 Clark Dickinson, Rt. 2 - Box 50, Perry, Fla.
 KKP5236 Bob Peter, 198 Hibiscus St., St. Augustine, Fla.
 KKR1231 David Cargill, P.O. Box 252, Ruston, La.
 KKR4044 J.J. Welles, 1070 Arlington St., Mobile, Ala.
 KKR5223 Charles Keathley, 3005 Loma Dr., Little Rock, Ark.
 KKT3900 Leonard Ferguson, 4217 Nagle, Bryan, Texas
 KKT4093 Sam Asberry, Rt. 3 - Box 982, Humble, Texas
 KKV7967 Tom Richey, 817 Hillside Dr., Sherman, Texas
 KXX0311 Ed Bastian, 8108 Lemona Ave., Van Nuys, Calif.
 KXX1831 Joe Stechnij, 555 W. Mahoney Ave., Mesa, Ariz.
 KXX1952 Howard Rebel, P.O. Box 765, Corona, Calif.
 KXX2834 George Strainline, 1171 W. Miracle Mile, Tucson, Ariz.
 KXX3439 Betty Rebel, P.O. Box 765, Corona, Calif.
 KXX4867 Wade Blythe, 14639 Lakeside St., Sylmar, Calif.
 KXX5201 Dale Fletcher, 54728 El Prado Trail, Yucca Valley, Calif.
 KXX7505 Pete Gabel, 4240 Palmero Dr., Los Angeles, Calif.
 KXX8504 Ken Weiland, 137 South Poinsettia Pl., Los Angeles, Calif.
 KLA4894 Robert Hash, 720 W. Acequia, Visalia, Calif.
 KLA5187 Ken Anderson, P.O. Box 1008, Los Gatos, Calif.
 KLA7142 Joe Howard, 1866 Bandoni, San Lorenzo, Calif.
 KLA7292 Wayne Metzger, 4068 N. 3rd, Fresno, Calif.
 KLA7428 Jack Evans, P.O. Box 108, Ivanhoe, Calif.
 KLD0781 John Taylor, 1402 126 St., Everett, Wash.
 KLE1482 Doyle Pruitt, 800 20th, Eunice, New Mexico
 KLE2247 Johnny Lyon, Rt. 1 - Box 33, Dix, Nebr.
 KLH4994 Jack Doggett, 8060 Dema Drive, Des Moines, Iowa
 KLH8504 Sanford Kelley, 2707 Endicott, Kansas City, Kans.
 KLI1246 Joe Wehr, R.R. 3, Harlan, Iowa
 KLI1365 Glenn Earney, 928 Olympia Dr., Ferguson, Mo.
 KLI1434 W.H. Stalons, 3903 Garfield, Lincoln, Nebr.
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 KLJ3281 Gerald Manet, 2207 W. 9th St., Muncie, Ind.
 KLJ3382 Earl Gordon, 419 W. Grand Ave., Decatur, Ill.
 KLJ3945 William Turner, 1728 Ford Ave., Owensboro, Ky.
 KLJ4024 Loren Snyder, 542 9th Ave. South, Clinton, Iowa
 KLJ4663 Bev Chappell, 3644 E. Minnie St., Decatur, Ill.
 KLJ5345 Arlo Cookson, 1548 North Church St., Decatur, Ill.
 KLJ6057 Bill Hittie, 1601 So. 4th St., Richmond, Ind.
 KLJ9320 Vance Heynen, 1411 Lake St., Pekin, Ill.
 LK1573 Dave Weil, Sumava Resorts, Ind.
 LK1623 Ada Gordon, 419 W. Grand Ave., Decatur, Ill.
 LK2079 Russell Smith, 107 So. State St., Louisville, Ky.
 LK2458 Lincoln Ide, 7842 So. McVicker, Oak Lawn, Ill.
 LK4317 Pat Cavanaugh, 3620 W. Southland Dr., Franklin, Wisc.

LK4590 Pat Spann, West Lebanon, Ind.
 LK5810 Irving Felzer, 2131 So. 15th Place, Milwaukee, Wis.
 LK5969 Lois Jacobson, 9115 Baldwin Dr., Rockford, Ill.
 LK6413 Frank Reynolds, P.O. Box 358, Morocco, Ind.
 LK8149 Marvin Simpson, 305 Gilbert St., Muscatine, Iowa
 LK8795 Manuel McKune, Route 1 - Box 186, Atkinson, Ill.
 LK9927 George Lucchetti, 6520 N. Hiawatha Ave., Chicago, Ill.
 KLL0297 Bob Hubsch, 179 Westwood Dr., Park Forest, Ill.
 KLL0800 Gil Davis, 2405 Sunset Blvd., Anderson, Ind.
 KLL0863 Clarence Dietrich, 410 Colgrove, Waterloo, Ind.
 KLM1447 Lee Collins, 4814 Sundale, Drayton Plains, Mich.
 KLM3314 Paul Monhart, 2170 W. 63 St., Cleve., Ohio
 KLM4842 Bessie Hazen, 231 North Mead St., Zanesville, Ohio
 KLM5752 Carl Martin, 130 Clark St., Elyria, Ohio
 KLN2229 Jerry Bradley, 1881 Whitefeather Rd., Pinconning, Mich.
 KLN2522 Anthony Gover, Bronston, Kentucky
 KLN2610 Joe Tylka, 1410 Maple St., West Bellaire, Ohio
 KLN2907 Bill Tenny, Rt. 4, Cheboygan, Mich.
 KLN3125 John Daugherty, 129 Elmore St., Zanesville, Ohio
 KLN3263 Henry Smith, 11944 Algonquin, Puncney, Mich.
 KLN5264 V.A. Norling, 25 Indian Trail, Poland, Ohio
 KLN6051 Ray Buell, 3313 Trade Winds Ave., Dayton, Ohio
 KLN6367 Tom Getgoff, 426 Mitchell St., Sanford, Mich.
 KLN6945 Al Wardeska, Vincent Star Route, Marietta, Ohio
 KLN7229 Bernard Weber, 820 Silver Lake Rd., Fenton, Mich.
 KLN7344 John Arnold, 8 E. Main St., Trenton, Ohio
 KLN7841 Grace Beaudry, Rt. 1 - Rose City, Mich.
 KLN8233 Don Gorda, 1854 Warwick, Lincoln Park, Mich.
 KLN8474 Jerry Teynor, 310 E. Irving St., Bucyrus, Ohio
 KLN8778 George Gruschke, Rt. - Lay Road, Alpena, Mich.
 KLN9155 Evans Johnson, 115 McKee, Manistee, Mich.
 KLN9710 Ray Keller, 852 N. Rosedale Ave., Lima, Ohio
 KLN9891 Marvin Schuler, 3940 South Dixie Highway, Lima, Ohio
 KLO0519 Don Jones, R.R. #2, Lawrenceburg, Ky.
 KLO0830 Keith Molden, 1114 So. Wilson, Royal Oak, Mich.
 KLO1208 Joe Williams, 2600 State St., Uniontown, Ohio 44685
 KLO2146 Harold Hick, 211 East Main St., Trorwood, Ohio
 KLO2529 James Jones, 523 West Main St., Zeeland, Mich.
 KLP0319 Pete Hons, 614 Main St., Portage, Pa.
 KLP2753 Horace Morath, 2380 Woodard Rd., Elma, N.Y.
 KLP3284 James Phillips, 599 West 8th St., West Wyoming, Pa.
 KLP3765 Ken Clemens, Box 71, Yorkville, N.Y.
 KLP5005 Bud Fowkes, 1031 5th Ave., Duncansville, Pa.
 KLP6626 Wallace Nolen, 12 Chase St., White Plains, N.Y.
 KLP7036 Bill Stern, 116 Evelyn Ave., Amsterdam, N.Y.
 KLP7105 Leon Thomas, 615 Old Falls Blvd., No. Tonawanda, N.Y.
 KLP7516 Guy Widmeyer, Box 99-A, Hopwood, Penna.
 KLP7578 David Moss, P.O. Box 61, Endicott, N.Y.
 KLP7879 Clarence Peet, Box 73, Fort Crane, N.Y.
 KLP8083 Howard Davidson, 26 Knight St., Glens Falls, N.Y.
 KLP8172 Bill Cox, 10 Eastland Ave., Gloversville, N.Y.
 KLP8791 Jim Smith, R.D. 3, Fort Plain, N.Y.
 KLP9151 Bob Lance, 10 Fredella Ave., Glens Falls, N.Y.
 KLP9557 George Booth, 971 Sweeney St., No. Tonawanda, N.Y.
 KLP9660 Harold Clark, Ashford Station, Ellicottville, N.Y.
 KLP9709 Dick Tipton, 1252 Hilton Parma Rd., Hilton, N.Y.
 KLQ0343 Dave Rhodes, 30 Garden Terr., Pittsburgh, Pa.
 KLO421 Don Bean, Box 130, Knoxboro, N.Y.
 KLQ0423 Roy Clinch, 3558 Gifford Rd., Vernon Center, N.Y.
 KLO4057 Charles Goughnour, 207 Coldren St., Johnstown, Pa.
 KLQ0660 Jerry Monroe, R.D. 1 - Coy Rd., Greenfield Center, N.Y.
 KLQ1745 Harris & Son, 2010 Cold Spring Rd., Liverpool, N.Y.
 KLQ2433 Robert Wydra, 472 Pringle St., Pringle, Pa.
 KLU0347 Charles Lowrey, Box 3878-P, Star Rte B, Anchorage, Alaska
 KMA0019 Sumner Eagerman, 39 Tennis Rd., Mattapan 'Boston', Mass.
 KMA0060 Norman Harold, 27 Blantyre Rd., Malden, Mass.
 KMA0434 Paul Malachowski, 6 Shady Lane, Wilbraham, Mass.
 KMA0449 Don Jenner, 96 Proctor St., Waterbury, Conn.
 KMA0517 Earl Holbrook, 29 Maynard St., Attleboro, Mass.
 KMA0722 John Hall, 2 Crescent St., Portland, Me.
 KMA0861 Regis Drakopoulos, 27 Douglas St., Haverhill, Mass.
 KMA0885 Dave Barney, Box 73, Center Rutland, Vt.
 KMA1670 Ken Cooley, 21 Acutney St., Windsor, Vt.
 KMA1779 Les Olson, 68 Symonds Ave., Collinsville, Conn.
 KMA2028 Edwin Keller, 10 South St., Plymouth, Mass.
 KMA2465 Tom Vecchitto, 117 So. Vine St., Meriden, Conn.
 KMA2668 Steve Shear, 177 Cherry St., Malden, Mass.
 KMA2766 Chuck Saverse, High Manor Park, Rockville, Conn.
 KMA3375 Mark Connors, 31 New Winchendon Rd., Baldwinville, Mass.
 KMA3419 Morris Fletcher, 6 Mellor Ave., Worcester, Mass.
 KMA3491 Chris Marinelli, 45 Milton St., New Britain, Conn.
 KMA3521 John Franzen, 102 Mount View Dr., Holden, Mass.
 KMA7754 Mae Hazel, P.O. Box 5, Gwinn, Mich.

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 KMA4356 Fred Smuckler, 6 Grant St., Beverly, Mass.
 KMA4497 Paul Polonsky, 19 Mill St., Beverly, Mass.
 KMA4715 Charles Lynn, 9 Summer St., Skowhegan, Me.
 KMA4850 David Glenn, 370 Warner Hill Rd., Southport, Conn.
 KMA5715 George Goodell, Enfield, N.H.
 KMA5863 Dave Hakes, 11 West St., Adams, Mass.
 KMA5991 Ron Rumary, 102 East St., Plainville, Conn.
 KMA6239 John Ewig, 3 Congdon St., Worcester, Mass.
 KMA6391 Joseph White, 56 Warren St., Everett, Mass.
 KMA6504 Don Lemoine, 118 Miller St., Springfield, Mass.
 KMA6706 Larry Searles, 97 Crescent St., Rutland, Vt.
 KMA7347 John Pietras, 53 Devens St., Indian Orchard, Mass.
 KMA7383 Joe Crowley, 66 Andrews Rd., Wollaston, Mass.
 KMA7457 Laurel Blood, 204 Valley View Dr., Meriden, Conn.
 KMA7668 Bill Harvey, 16 Sander St., New London, Conn.
 KMA7755 Milton Hazel, 202 Thunderchief, K.I. Sawyer AFB, Mich.
 KMA7808 Bill Nolan, 30 Sunset Terrace, Unionville, Conn.
 KMA8131 Butch Blanchard, Hathaway St., Adams, Mass.
 KMA9107 Bowd Miller, 4 Zion Court, Poquonnock Bridge, Conn.
 KMA9261 Carroll Rogers, Box 178, Middletown, Conn.
 KMA9803 Wil Denis, 110 Phillips St. R.D. 2, Attleboro, Mass.
 KMA9865 David Orluk, 200 Manchois Rd. Ext., Wilbraham, Mass.
 KMB0161 Jimmy Macione, 97 Riverview Ave., New London, Conn.
 KMB0611 Everett Decker, P.O. Box 411, Westfield, Mass.
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 KMD0404 Lawrence Fried, 3070 Seaview Lane, Bellmore, N.Y.
 KMD0428 David Bellask, 1159 East 42nd St., Brooklyn, N.Y.
 KMD0490 Fred Decter, 339 Leslie St., Newark, N.J.
 KMD0992 Howard Huneke, 518 Mountain Ave., Springfield, N.J.
 KMD1282 Sam Thau, 9-01 Bush Pl., Fair Lawn, N.J.
 KMD1705 Phillip Ellery, 20 Riverside Dr., Suffern, N.Y.
 KMD1755 Ronald White, St. Remy, New York
 KMD2334 Sherwood Wile, 15 Vanderventer Ave., Pt. Washington, N.Y.
 KMD2393 Stewart Romain, 937 East 103 St., Brooklyn, N.Y. 11236
 KMD2393 Brooklyn Bomber, Box 107, Brooklyn, N.Y. 11236
 KMD2426 Peter Cleary, 81 Westbrook Ave., Midland Park, N.J.
 KMD2436 John Erwin, 38 Gouverneur St., New York, N.Y.
 KMD2462 Bob Miro, 2680 E. 19th St., Brooklyn, N.Y.
 KMD2625 Philip Troffmuk, 164 Main St., Franklin, N.J.
 KMD2632 Donald Heide, 2732 Batchelder St., Brooklyn, N.Y.
 KMD3295 Alex Marcus, 315 East 68 St., New York, N.Y.
 KMD4049 Thomas Ninnie, 2 Chiappardi Place M.L.D., Beacon, N.Y.
 KMD4083 Rick Trevena, 103 Bryson Ave., Staten Island, N.Y.
 KMD4346 Edward Efchak, 91-17th Ave., East Paterson, N.J.
 KMD5177 Mark Linett, 80 Huntington Ave., Scarsdale, N.Y.
 KMD5342 Larry Grodjeski, 33-24 Halsey Rd., Fairlawn, N.J.
 KMD6375 Joseph Mohr, 348 Morton Ave., Rahway, N.J.
 KMD6868 Ed. Raffo, 325 Lexington Dr., River Edge, N.J.
 KMD7021 Dale Gerard, P.O. Box 135, Ardonia, N.Y.
 KMD7533 Michael Hurtack, 16 Montrose Ave., Fanwood, N.J.
 KMG0285 Charles Bell, 408 Pomeroy St., Ridley Park, Pa.
 KMG0384 Hal Webb, Evangelistic Team, Ridley Park, Penna.
 KMG0471 Charlie Stauffer, R.D. #1, Holtwood, Pa.
 KMG0524 Gary Nicholson, 801 North Pitt St., Carlisle, Pa.
 KMG0597 Bob Zeiber, 1001 Midway Ave., Temple, Pa.
 KMG1362 Ted Gingrich, 1801 Mayflower Circle, Lancaster, Pa.
 KMG1802 Richard Fennessy, 209 Meadow Ave., Point Pleasant, N.J.
 KMG1806 Ken Harryn, 158 W. Clarke St., Hellertown, Pa.
 KMG2513 Harry Watson, 53 W. Columbia Ave., Lindenwold, N.J.
 KMG3812 Arnold Thompson, 86 Old Deerfield Pike, Bridgeton, N.J.
 KMG4491 Ricky Knowles, 2007 Lincoln Ave., Wilmington, Del.
 KMI0059 Doug Lasher, P.O. Box 226, Millsboro, Del.
 KMI0347 Betty Bedford, 4903 Asbury Lane, Bethesda, Md.
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 KMI1259 Joe Lentini, 7911 Amherst Dr., Pensacola, Fla.
 KMI1499 Don Heinbuch, 218 North Rose St., Baltimore, Md.
 KMI1861 John Hawkins, 9631 52nd Ave., Colledge Park, Md.
 KMI2129 Robert Coffman, 319 Cedar Dr., Salisbury, Md.
 KMI2262 Todd Smith, 828 Hamilton Blvd., Hagerstown, Md.
 KMI2312 Fred Fleming, P.O. Box 2155, Monongah, W. Va.
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 KMI2488 Dallas Bradford, Box 74, Pittsville, Md.
 KMI2694 Charlie Thorpe, 2614 Newton St., Wheaton, Md.
 KMI2756 Harold Feagan, 518 Main St., Weston, W. Va.
 KMI3005 Terry Collins, 4 King Ave., Frederick, Md.
 KMI3828 Gertrude Seaber, 409 Vine St., Westernport, Md.
 KMI3835 Boyd Wright, 12023 Bennett Rd., Herndon, Va.
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 KMK0678 Edith Grantham, P.O. Box 364, Raeford, N.C.
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 KMK5383 Greg Ferree, 113 Francis Dr., Asheboro, N.C.
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 KMM1484 Jerry Morgan, 106 Merchant St., Mt. Pleasant, Tenn.
 KMM1624 Bob Keast, Camden, Tenn.
 KMM1952 Bennie Taylor, 1209 Ferron Ave., Anniston, Ala.
 KMM3176 Robert Thomas, 115 Larchmont, Chattanooga, Tenn.
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 KMM5816 Ora Cardwell, Rt. 1 - Box 335, Heiskell, Tenn.
 KMM6790 Steve Fuston, 110 Water St., Woodbury, Tenn.
 KMM6842 Bill Ealy, 3915 Tacoma Ave., Red Bank, Tenn.
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 KMP2491 Carroll Pirtie, 2213 Barry Dr., Fort Myers, Fla.
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 KMT1506 Arthur Cates, 1310 North Dakota, Baytown, Texas
 KMT2245 C.W. Pyle, Rt. 2, Iola, Texas
 KMT3106 Thomas Moore, P.O. Box 553, Porter, Texas
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 KMX3234 Ron Murphy, 12993 Herrick St., Sylmar, Calif.
 KMX3714 Donald Hamilton, 1780 N. Conejo, San Bernardino, Calif.
 KMX3943 Jim Hope, 356 N. Fuller, Los Angeles, Calif.
 KMX5223 Fred Osterman, 621 N. Philadelphia St., Anaheim, Calif.
 KMX6957 Marshall Piercefield, 1354 E. Flower St., Phoenix, Ariz.
 KMX7611 Bruce Beecraft, 4515 Billflower Blvd., Long Beach, Calif.
 KMX7748 Bob Callahan, 1817 Anacapa St., Santa Barbara, Calif.
 KMX7825 Jerry Stern, 5841 Graves Ave., Encino, Calif.
 KMX8433 Don Janssen, 4525 Comber Ave., Encino, Calif.
 KNA1941 Dick Miranda, 2663 Kavanaugh Rd., San Pablo, Calif.
 KNA2060 Frank Oxner, 382 Monterey, Pacifica, Calif.
 KNA2372 C.A. Baker, P.O. Box 641, San Pablo, Calif.
 KNA2714 Bob Johnson, 1128 Stannage, Albany, Calif.
 KNA2893 Edward Fell, 4018 E. 3rd Ave., Napa, Calif.
 KNA4972 Mac Ogborn, 2217 North Rancho Rd., El Sobrante, Calif.
 KNA5053 Gordon Graham, 37340 Walnut St., Newark, Cal.
 KNA5891 Larry Eaton, 1265 Portland Ave., Albany, Calif.
 KNA6190 Chuck Iverson, 2611 Humphrey Ave., Richmond, Calif.
 KNC0535 Ed King, 505 Merchant, Eastside, Oregon
 KNC0908 The Ames', 1112 East Maple, Hillsboro, Oregon
 KNC2026 Delave Guild, Rt. 2 - Box 541A, Molalla, Oreg.
 KNC2044 Daryl Thompson, P.O. Box 546, Warm Springs, Oreg.
 KNC2257 Rick Warner, 4290 High St., Eugene, Oreg.
 KNC2570 James Saigeon, HQ, SAC(DPSE)Ofutt AFB, Omaha, Nebr.
 KNC3233 Oscar Sharon, Rt. 2 - Box 246-A, Coos Bay, Oreg.
 KND0474 Glenn Ehlers, 205 Albert St., Wilkeson, Wash.
 KND2270 Bill Kirsch, P.O. Box 275, Hoquiam, Wash.
 KNE1971 John Brutlag, 124 Ash St., Sheridan, Wyo.
 KNF0207 Norbert Linden, 1005 Washington Ave., Escanaba, Mich.
 KNF1860 Steve Krueger, 405 W. Prospect St., Rhinelander, Wis.
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 KNH1445 Virgil Argal, 520 West Halsey St., Maryville, Mo.
 KNH2138 James Larson, 617 North Spruce, Wichita, Kans.
 KNH2587 Frank Mauler, R.F.D. 1, Olmitz, Kans.
 KNH2593 Card Swapping Dale, 125 E. Holden, Lemay, Mo.
 KNH4676 Jerry Dee, Box 263, Cedar Falls, Iowa
 KNH5355 Larry Diesbach, 4052 Taft Ave., St. Louis, Mo.
 KNH6250 Union Hixson, 129 South Moore, Ottumwa, Iowa

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 KNH7075 Hiatt's, P.O. Box 805, Ottumwa, Iowa
 KNH7132 Henry Hawkins, R.R. 1 - Box 86, Fairgrove, Mo.
 KNH7167 Keith Miller, 1110 Second St., Perry, Iowa
 KNH7604 Gene Holdinghausen, Box 123, Hematite, Mo.
 KNH7705 Bill Thompson, 519 N. Quincy, Sedalia, Mo.
 KNH9112 Al McCool, 2605 South 45th St., Kansas City, Kans.
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 KNI0326 Don Feltz, Keota, Iowa
 KNI0500 Oscar Hartmann, 125 E. Holden, Lemay, Mo.
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 KNJ2321 Rick Rumick, 1032 Oak Ridge Dr., Glencoe, Ill.
 KNJ2415 Roger Knautz, 6450 N. Leoti, Chicago, Ill.
 KNJ3086 Janet Stanley, 334 N. Franklin St., Dunkirk, Ind.
 KNJ3091 Pete Hauer, 512 E. Galena Blvd., Aurora, Ill.
 KNJ3285 Amos Jackson, 1109 Grapevine Rd., Madisonville, Ky.
 KNJ3908 Larry Erickson, 4314 10th St., East Moline, Ill.
 KNJ3985 Don Whyte, 1805 26 St., Kenosha, Wis.
 KNJ4430 David Conder, 1319 South Cherry, Centralia, Ill.
 KNJ4674 Howie Beesley, 8444 So. Halsted, Chicago, Ill.
 KNJ4687 John Crawford, P.O. Box 1053, Owensboro, Ky.
 KNJ6622 Robert Hensley, R.R. 1, Tama, Mo.
 KNJ6721 John Povilnski, 445 E. Ridge Rd., Gary, Ind.
 KNJ7047 Jerry Ahler, R. 6 - Box 26 Hy.P., Burlington, Wis.
 KNJ7391 Bob Conant, 613 South Bluff Rd., South Beloit, Ill.
 KNJ7802 Wm. Wallace, 35 Gilbert St., Savanna, Ill.
 KNJ8755 Gay Hodges, P.O. Box 318, Centralia, Ill.
 KNJ8784 Don Ault, 1823 South 5th Ave., Maywood, Ill.
 KNJ9342 Max Reed, Box 320, Byron, Ill.
 KNK0978 Buddy Stroube, 105 Cumberland Dr., Princeton, Ky.
 KNK0240 Don Field, 464 Shabbona Dr., Park Forest, Ill.
 KNK0383 Billy Ridge, R.R. 2, Claypool, Ind.
 KNK0460 David Sigo, Rt. 1 - Box 153, Goodland, Ind.
 KNK0567 Harley Henson, R.R. 5 - Box 306A, Elkhart, Ind.
 KNK0580 Russ Draggist, R.R. 1 - Spring Bay, E. Peoria, Ill.
 KNK0706 Roy Powell, 706 S. Manhattan St., Indianapolis, Ind.
 KNK0717 Clifford Major, 1136 E. Elmhurst, Decatur, Ill.
 KNK0846 Ed. Gressing, 7917 W. Medford Ave., Milwaukee, Wis.
 KNK1121 Rick Constable, North James, Goodland, Ind.
 KNK1126 Richard Danhauser, St. Paul Church, R.R. 2, Leitchfield, Ky.
 KNK1129 C.B. Brown, 807 East 15th St., Sterling, Ill.
 KNK1188 Charles Primus, R.R. 2, Vincennes, Ind.
 KNK1257 Bill Turner, 1217 So. 5th St., Paducah, Ky.
 KNK1553 Charles Guarino, Box 8, Goodland, Ind.
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 KNK2343 Ken Kramer, 5735 S. Merrimac Ave., Chicago, Ill.
 KNK2528 Pam English, 4430 Cassopolis St., Elkhart, Ind.
 KNK2907 Mickey Urban, 2696 Dearborn St., East Gary, Ind.
 KNK3110 Warren Neumann, 2333 Highway 41, Gurnee, Ill.
 KNK3180 Kenneth Proeber, 9330 W. Eden Pl., Milwaukee, Wis.
 KNK3542 Bill Phalen, 514 S. Dixon Ave., Dixon, Ill.
 KNK3972 Joseph Jachimiak, 2400 South St., Rolling Meadows, Ill.
 KNK3988 Bob Sandlin, 312 Division St., Neenah, Wis.
 KNK4165 Bruce Anderson, 16235 Carse, Harvey, Ill.
 KNK4639 Claud Ensinger, 639 W. Lincoln Way, Morrison, Ill.
 KNK4664 Jerry Redar, 2007 Church St., Dyer, Ind.
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 KNK4890 Kent Newton, 608 Sunset Court, Havana, Ill.
 KNK4939 Robert Mark, 6925 W. Highland Ave., Chicago, Ill.
 KNK5387 Paul Cunningham, 403 19th St., Loganport, Ind.
 KNK5732 Clark Kellie, 1729 West Walnut St., Kokomo, Ind.
 KNK6091 Tom Kozrowski, 3976 Maryland St., Gary, Ind.
 KNK6293 Hank Peterson, 3041 N. 77th Ct., Elmwood Park, Ill.
 KNK7517 Bill Miller, 407 Allison Rd., Middletown, Ky.
 KNK7813 Wally Bebeau, 1915 So. 69th St., West Allis, Wis.
 KNK7822 Tom Watson, 4021 Apt. 3 Spruce, APO Seattle 98731
 KNM0454 Kenneth Francisco, Rt. 1, New Straitsville, Ohio
 KNM0810 Don Theisen, 53 Norwood Ave., Norwalk, Ohio
 KNM0827 Dallas Leith, 23 Gail Lane, Tiffin, Ohio
 KNM1306 Bill Strutz, 317 Columbus Ave., Akron, Ohio
 KNM2171 Gary Maturen, 1003 Court, Saginaw, Mich.
 KNM2184 Gary Crippens, West 35 St., Shadyside, Ohio
 KNM2322 Chuck Sisler, 140 Montgomery Lane, Mingo Jct., Ohio
 KNM2350 Glenn Rey, 132 Hill St., Lansing, Mich.
 KNM2845 Lois Rizer, Box 19, Mason, W. Va.
 KNM3050 Jim Dameron, 2556 North Union Rd., Dayton, Ohio
 KNM3577 Walt Boren, 4525 Haddington Dr., Toledo, Ohio
 KNM4121 Howard House, P.O. Box 357, Winchester, Ky.
 KNM4439 Ed Konopka, 3112 Bradley Rd., Westlake, Ohio
 KNM4500 William Selzer, 3812 S. Turkeyfoot Rd., Akron, Ohio
 KNM4570 Myrtelee West, 1804 East Ganson St., Jackson, Mich.
 KNM4813 Jim Waters, 28 S. Pembroke Ave., So. Zanesville, Ohio
 KNM4958 Richard Gaunt, 15 Riverside Dr., Saginaw, Mich.
 KNM5436 Nick Koch, 6422 Elbrook Ave., Cincinnati, Ohio
 KNM5605 Charles Price, 923 Jean Ann Dr., St. Joseph, Mich.
 KNM6718 Walter Smith, Box 183, Hines, W. Va.
 KNM6935 Roger Weber, 6231 Highland Rd., Cleveland, Ohio
 KNM7185 Victor Fortnoff, 1759 Kingsley Ave., Akron, Ohio
 KNM7399 Lyle Green, Boyne City, Mich.
 KNM7694 Keith Carnes, 2277 Oak Park Ave., Muskegon, Mich.
 KNM8518 Harry Kimmel, 869 Wood St., Follansbee, W. Va.
 KNM9486 Stephen Hodges, 105 1/2 5th St., Ludington, Mich.
 KNM9699 Ted Davis, R.D. 1 - Box 38-A, Farmdale, Ohio
 KNN0101 Steve Stephan, 1051 W. Maple Ave., Adrian, Mich.
 KNN0483 Paul Craig, 2324 Greenacre Dr., Findlay, Ohio
 KNN0838 Dave White, 23305 Fernwood, Beachwood, Ohio
 KNN1608 Bernie Godaway, Box 256B, St. Clairsville, Ohio
 KNN1625 Bill Hutchison, 3130 W. 115th., Cleveland, Ohio
 KNN1700 John Rice, 204 East Main St., Metamora, Ohio
 KNN2137 Laura Plueddemann, R.D. 2, Clinton, Ohio
 KNN2281 Bill Mitchell, 1103 Virginia St., Martins Ferry, Ohio
 KNN2330 Tom Biggs, 820 Stone St., Flint, Mich.
 KNN2435 Ervin Laurenz, 7214 Cole Rd., Saginaw, Mich.
 KNN2969 Bugs Callison, 204 Harrison St., Elyria, Ohio
 KNN3349 R.Scott Hogg, 3327 Stearns, Cincinnati, Ohio
 KNN3559 Ralph Crawford, P.O. Box 621, Olive Hill, Ky.
 KNN3702 Mike Crolsant, 403 Cottonwood, Midland, Mich.
 KNN4055 John Stevens, 259 Wilson St., Oregon, Ohio
 KNN4080 Rodney Hysell, Rt. 1, Pomeroy, Ohio
 KNN4139 Calvin Foster, 8880 Lange Rd., Fowlerville, Mich.
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 KNN4766 Vince Friedell, 1642 Kedron St., Toledo, Ohio
 KNN6115 Mary McIver, 733 Barker Dr., Springfield, Ohio
 KNN6192 John Dye, 3705 Harrison St., Bellaire, Ohio
 KNN6215 Purle McClelland, 7073 Redcliffe Rd., Melvin, Mich.
 KNN6590 Don Grimes, Box 64, Woodstock, Ohio
 KNN6600 Anton Quint, P.O. Box 1392, Cincinnati, Ohio
 KNN6680 Jess Beckhorn, 4248 Farr Rd., Fruitport, Mich.
 KNN7291 Alfred Chavis, 218 So. Elm St., Troy, Ohio
 KNN7332 Neil Sanders, 8 Portsmouth Rd., Gallipolis, Ohio
 KNN7902 Jesse Dunn, 2214 Aitken Ave., Flint, Mich.
 KNN7942 Robert Robinson, Box 34, Fleming, Ohio
 KNN8048 Bill Naus, 325 Pine Hill Ave., Cheboygan, Mich.
 KNP0066 Cliff McLain, West Hill Rd., Hamilton, N.Y.
 KNP0567 Bob Ivanoff, 726 Elsworth Ave., Jeannette, Penna.
 KNP0894 Allen Dunlap, 1300 No. Montgomery St., Hollidaysburg, Pa.
 KNP1507 Larry DeMarco, 909 Elizabeth St., Mechanicville, N.Y.
 KNP2399 Dale Monfort, 218 Maplecrest Ave., Lakewood, N.Y.
 KNP2471 Jim Laubs, Route 1, St. Thomas, Penna.
 KNP2974 Rich Artman, 2625 Chestnut St., Lower Burrell, Pa.
 KNP3245 Geo. Thayer, A303 Iroquois Dr., Salamanca, N.Y.
 KNP3338 Peg Catlin, 547 Gaines St., Elmira, N.Y.
 KNP3470 Dick Shaffer, 1839 6th Ave., Beaver Falls, Pa.
 KNP3602 Walter Kakareka, R.D. 3, Moscow, Pa.
 KNP3801 Bob Hedrich, 36 Main St., Randolph, N.Y.
 KNP4316 Jack Anderson, 21 Woodside Ave., Buffalo, N.Y.
 KNP4353 Chuck Harrison, 140 Whitehall Ave., Jamestown, N.Y.
 KNP5015 Don Newton, Rt. #1 - Box 44, Gerry, N.Y.
 KNP5155 John Thompson, 436 N. Main St., Wilkes-Barre, Pa.
 KNP5301 Stretch Cunningham, East Main Rd., Westfield, N.Y.
 KNP5344 Jack Anchor, 209 Crescent Dr., Lower Burrell, Pa.
 KNP5382 Dick Tanner, 14 Seneca Manor Dr., Seneca Falls, N.Y.
 KNP5523 Dave Doxey, 807 Elizabeth St., Mechanicville, N.Y.
 KNP5816 Denny Spitzer, 9 Crescent St., Jamestown, N.Y.
 KNP6017 Wendy Snyder, Rd. 5, Butler, Pa.
 KNP6405 David Orelk, 10 Christian St., Nanticoke, Pa.
 KNP6485 Phil Soper, Whallonsburg, N.Y.
 KNP7107 Alan Shortzberger, 1801 1/2 Hamilton St., New Castle, Pa.
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 KNP7450 Terry Hartsell, 217 Fulton St., Jamestown, N.Y.
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 KNP7641 Michael Norce, 377 La Salle St., Berwick, Pa.
 KNP7724 Dave Twamley, 304 Rogers Parkway, Rochester, N.Y.
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 KOA0725 Phil McGinness, 27 Foster Dr., Beverly, Mass.
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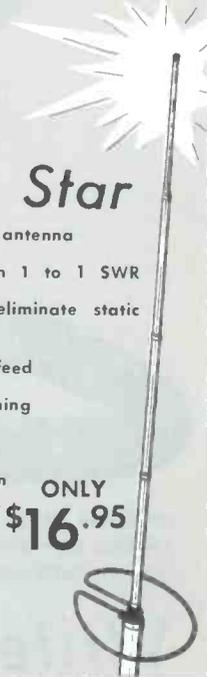
- KOA2100 R. Bradlee, 271 Carleton Dr., Cheshire, Conn.
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 KPQ0907 Roger Stern, 885 Wyoming Ave., Kingston, Pa.
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 KPQ2692 Harry Haught, 29 Marion Ave., Milton, Pa.
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 JA3-2320 Yutaka Tanaka, 66 1 Bancho Koshien Nishinomya Hyogo, Japan
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LOW FREQUENCY

POLICE STATIONS

During the past few years there has been a mass exodus of communications facilities to the VHF and UHF bands. Once the low frequency bands swarmed with busy communications networks but today few of the old timers are still to be heard. Possibly the largest group of stations to dump the use of the 2 mc/s band was comprised of police stations; where once roamed many hundreds, the number is rapidly diminishing.

Those that have stuck it out on these bands still offer fascinating fare for the DX enthusiast, as they can frequently be heard over distances of thousands of miles. Someday they will all have moved on to the greener pastures of VHF and UHF, so you'll have to catch them while there's still time.

Our list shows those stations believed to be still in operation. We have also indicated the operating agency—"C" for county, "S" for state, "M" for municipal; and the power of stations, where known. Let us know how you make out.

Kc/s	Call	City	State	Type	Watts						
							KMA787	Los Angeles	Calif.	M	700
							KMA807	Newhall	Calif.	S	4000
1610	KMA224	San Rafael	Calif.	C	1000						
	KMA433	Arcata	Calif.	M	60	1690	KMA788	Sacramento	Calif.	S	1000
	KMA518	Napa	Calif.	C	500		KMA797	"	Calif.	S	210
	KMA524	Ukiah	Calif.	C	800		KMA799	Grass Valley	Calif.	S	250
	KMA768	Lakeport	Calif.	C	400		KMA800	Willows	Calif.	S	700
	KMA862	San Rafael*	Calif.	C			KMA802	Vallejo	Calif.	S	500
	KMA994	Crescent City	Calif.	C			KMA803	Alturas	Calif.	S	1000
	KMG688	San Rafael	Calif.	C	1000		KMA805	Oroville	Calif.	S	2000
	KSB228	Peoria	Ill.	S	1000		KMA962	San Francisco	Calif.	S	500
1618	KIB690	Cookeville	Tenn.	S	800	1706	KOB307	Coquille	Ore.	S	680
	KIC358	Knoxville	Tenn.	S	1000		KQA398	Cincinnati	Ohio	M	2000
	KIC359	Huntington	Tenn.	S	1000						
	KIC360	Chattanooga	Tenn.	S	1000	1714	KCA281	Revere	Mass.	M	150
	KIC361	Jordonia	Tenn.	S	1000		KCA692	Newton	Mass.	M	50
	KIG264	"	Tenn.	S			KCA955	Newton	Mass.	M	100
1626	KKC489	McAlester	Okla.	S	150		KKA463	Longview	Tex.	C	600
	KKC883	Oklahoma City	Okla.	S	1000		KKA938	Pt. Arthur	Tex.	M	300
	KKC884	Durant	Okla.	S	250		KKB364	Dallas	Tex.	M	750
	KQA698	Elkins	W. Va.	S	400		KKB840	Texas City	Tex.	M	100
	KQB568	Romney	W. Va.	S	1000		KKC355	Victoria	Tex.	C	250
	KQB569	S. Charleston	W. Va.	S	1000		KKD296	Baytown	Tex.	M	60
1634	KOA303	Reno	Nev.	M	500		KKD297	Dallas	Tex.	M	750
	KOA726	Carson City	Nev.	C	400		KKD489	Waco	Tex.	M	500
	KOB220	Fallon	Nev.	C	800		KKD490	Houston	Tex.	M	1000
	KOB221	Ely	Nev.	C	800		KMA384	Pomona	Calif.	M	400
	KOB278	Pioche	Nev.	C	400		KMA793	Needles	Calif.	C	500
	KOB469	Las Vegas	Nev.	C	150		KMA794	Barstow	Calif.	M	250
	KOB872	Elko	Nev.	C	800		KMA795	San Bernardino	Calif.	C	1000
	KOB893	Lovelock	Nev.	C	400		KMA943	Pasadena	Calif.	M	400
	KOE525	Yerington	Nev.	C		1722	KMA213	Davis	Calif.	M	
	KOF211	Winnemucca	Nev.	C			KMA433	Davis	Calif.	M	40
1658	KED784	Corpus Christi	Tex.	S			KMA866	Westwood	Calif.	C	400
	KKC784	Calallen	Tex.	S	360		KMA867	Susanville	Calif.	C	400
	KKD303	Austin	Tex.	S	1000		KMA907	Sacramento	Calif.	M	250
	KK1412	Amarillo	Tex.	S			KMA910	Sacramento*	Calif.	M	
	KMA539	San Leandro	Calif.	C	1000		KUA210	Wailuku	Hawaii	C	500
	KMA846	San Leandro*	Calif.	C			KUA212	Lahaina	Hawaii	C	30
	KMA848	Santa Rita	Calif.	C	200	1730	KMA367	Los Angeles	Calif.	M	1000
	KMA933	Martinez	Calif.	C	1000		KMA785	Los Angeles	Calif.	M	1000
	KMA934	Martinez*	Calif.	C			KMA922	Los Angeles*	Calif.	M	130
1682	KCA999	Concord	N.H.	S	1400		KQB358	Wilmington	Ohio	S	600
	KCB538	Lancaster	N.H.	S	450	2366	KMA785	Los Angeles	Calif.	M	1000
	KDZ367	Stratham	N.H.	S			KMA786	Los Angeles	Calif.	M	700
	KMA785	Los Angeles	Calif.	M	1000		KMA787	Los Angeles	Calif.	M	700
							KMA992	Los Angeles*	Calif.	N	700

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	KMM577	City Terrace	Calif.		
2382	KSA765	Oshkosh	Wisc.	C	500
2414	KKE370	Clovis	N. M.	M	500
	KMA789	Tulare	Calif.	M	250
	KMA842	Visalia	Calif.	C	1000
	KMA858	Merced	Calif.	C	
	KOB464	Union Gap	Wash.	S	
2422	KEA317	Freehold	N. J.	C	1000
2442	KMA361	Vacaville	Calif.	M	
	KMA583	Indio	Calif.	C	250
	KMA878	Banning	Calif.	C	250
	KMA879	Blythe	Calif.	C	500
	KMA880	Riverside	Calif.	C	
	KOI629	Portland	Ore.	M	800
	KQA739	Saginaw	Mich.	M	500
	KWA201	Ketchikan	Alaska	M	80
	KWA216	Tok Junction	Alaska	M	
	KWA217	Glenn Allen	Alaska	M	
	KWA218	Anchorage	Alaska	M	
	KWA219	Fairbanks	Alaska	M	180
	KWA233	Fairbanks	Alaska	M	
	KWA237	Palmer	Alaska	M	
	KWA238	Valdez	Alaska	M	
	KWA239	Seward	Alaska	M	
	KWA629	Kenai	Alaska	M	
	KWA686	Juneau	Alaska	M	40
	KWA746	Anchorage	Alaska	M	
	KWA747	Fairbanks	Alaska	M	
	KWA797	Third Division	Alaska	M	
	KWA862	Homer	Alaska	M	
2466	KIC306	Memphis	Tenn.	M	4000
	KMA438	San Francisco	Calif.	M	
2490	KMA790	El Centro	Calif.	M	800
	KMA791	El Centro	Calif.	M	400
	KMA824	San Diego	Calif.	M	
	KMA938	Orange	Calif.	C	
	KOA417	Kennewick	Wash.	S	450
	KOA952	Spokane	Wash.	S	450
	KSA253	Pt. Wayne	Ind.	M	400

S9

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NORTHERN

CB'ERS AID IN MASSACHUSETTS SEARCH FOR MISSING FIVE YEAR OLD BOY!

A fantastic twenty-four hour search for a missing five year old boy took place Sunday, April 17, 1966. Little Charlie Sapp of Centennial Drive, Upton, Massachusetts was reported missing to Upton police by his mother. Charlie was last seen in his back yard late Saturday afternoon. Most of the male population of the city, total population being roughly two thousand (2000), organized a search which lasted until Saturday midnight. At dawn Sunday, word spread all over Massachusetts and Rhode Island, and local AM radio stations broadcasted the disappearance every half hour.

When word reached Mrs. Mary Darigan, KMA0217, president of the John F. Kennedy Chapter of REACT, she immediately phoned Upton police. After speaking to the police, Mrs. Darigan learned that numerous volunteers were needed to aid in the search.

The REACT president immediately contacted Roland Mignanelli, KBA8491, president of the Channel Wanderers Emergency Radio Club and Robert Kelley, KMA-0948, Air Officer of the Coventry Radio Patrol, as well as her REACT Team. Walkie-talkies were donated by the Civil Defense of Warwick, Rhode Island and CB'ers not affiliated with any clubs. Within an hour, William Nadeau, KOA4137, Asst. Air Officer of the C.W.E.R.C., and Conrad Burns, KMA0953, Assistant Air Officer of the C.R.P. had their respective clubs on the road to Upton.

KKA7652, Ronald Orabona of Cranston, Rhode Island; KMA5442, Raymond Handy of Cranston, Rhode Island; KKB0007, Paul Veirling of North Providence, Rhode Island; and KBB0338, George Drury of Cranston, Rhode Island, remained at their base controls for the specific purpose of trying to keep channel nine free from all traffic, so that 10-5's may be brought down from Upton to Mrs. Darigan.

An estimated one thousand persons covered the area around the child's home. Twenty miles of swamp and a golf course were canvassed three times by police and volunteers with no trace found of the boy.

At 7:20 P.M. Sunday evening, Upton police received a call reporting that little Charlie was in Florida with his father.

It's too bad that medals aren't given to such people as this, that canceled all their plans and gave up their Sunday to do what they could to assist in finding this boy. New England residents should be proud to have well organized clubs such as REACT, C.W.E.R.C., and the C.R.P. in their area.

A new club has been organized in Old Town, Maine. The slate of officers for the Old Town 5 Watters is Paul Jordon, KKA9882, Old Town, Me., president; Leroy Getchell, Olemon, Me., KMA9344, vice president; Verna Jordon, secretary; Jean Marquis, treasurer all of Old Town.

A dinner Dance is planned by the Carmel Club for June 11, 1966, and a Pot Luck Supper and Dance by the Old Town 5 Watters, June 4, 1966.

The Pine Tree Five Watters Inc. are now meeting the 1st and 3rd Sunday evenings of hte month at the club room, 267 Main St., Bangor, Me. The Carmel and Old Town clubs meet on the 2nd Monday of each

month. All CB'ers are cordially invited to drop in anytime.

The Ethan Allen CB Radio Club Inc. of Burlington, Vt., sponsored a Civil Defense Survival Training Course, at their club rooms located at the Welcome Inn, in Burlington. The meeting was held on four consecutive Wednesdays, from 7:00 to 10:00. Beginning on April 13th and ending May 4th. There was an average of 27 members attending, and also two members of the CB Radio Patrol Inc. The instructor for the course was James Ticehurst from CD headquarters, Montpelier, Vt. who showed slides and movies and lectured. At the last meeting held May 4th, Mr. Edmund H. Romney, coordinator of CD for the state, presented each participant with a certificate of achievement.

On May 1, 1966 the Tri-State Conference was held in North Adams, Mass. and was attended by approximately 20 clubs. The three clubs from the Burlington area (CB Radio Patrol Inc., Ethan Allen CB Radio Club Inc. and the Hinesburg CB Club) sent representatives to the conference, which is to promote better relationship among CB'ers and learning new ways to better each club for their areas. There were a variety of workshops held in the morning, and a noon meal of turkey with the trimmings was served. After which the main topics of the conference were discussed. The conference is held twice a year on the first Sunday of May and October. The names of the clubs who have not been host for the conference are placed in a hat and the name drawn is the host for the following conference. The lucky name for the October Conference which will be held on October 9, 1966, was the CB Radio Patrol Inc., P.O. Box 713, Burlington, Vt. Thereby the conference will be held in the Burlington area.

At the regular monthly meeting of the Ethan Allen CB Radio Club, May 2nd new officers were elected. The officers are: President, Arlie Fuller; Vice President, Calvin Ploof; with the remaining officers being the same. The election was held mainly for a new president, due to the resignation of the president, Roland Hood, because of business. A discussion on the conference was held after the meeting, and the club is now in the process of drawing up their own creed.

The Carmel Maine Civil Defense Unit and CB Radio Club elected the following officers at a recent meeting. President, John Foster, Old Town, Me., KKB3831; Vice President, Philip Morse, Hermon, Me., KOA-0592; Secretary-Treasurer, Warren Chatto, Hampden, Me., KBA7481; Chairman of Committee's, Edward Nason, KMA2891. Charles Tibbits is Civil Defense, IQ3182, Director for the Town of Carmel.

The Pine Tree Five Watters Inc. CB Radio Club of Bangor and Brewer, Maine area, elected Lloyd C. Mann, KKA1222, Brewer, Me., President; Vernon Doak, Brewer, KKA9775, Vice President; Loeta Dutch, IQ3011; E. Holden, Secretary; Frank Andrews, IQ7202, Bangor, Treasurer; Gilbert Colson, KBC0830, Brewer, REACT Director; Philip Sprague, Jr., Bangor, KMA-1884, Comm. Officer. The club has established a Civil Defense Radio Net for the City of Brewer under Civil Defense Director Police Chief Ralph Willoughby.

Officers for the year for the Town and Country CB Radio Club, Inc. are: President, Art Kretschmer, KIC-5753; Vice President, Don Richards, KPQ0691; Secretary, Patricia Nickerson, KIC0952, and Treasurer Peg Richardson, KID0744. The club meets the 2nd Wednesday of the month at the Sportsman's Club, Lakeville, New York. They have a very active REACT team and have been able to give assistance in at least a dozen instances since its inception in February of this year. The team is headed by Chuck Struble, KIC4948 who

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does an excellent job. A twenty-four hour monitor of channel 9 is accomplished with the dedicated planning given by Chuck. The club is sponsoring its 2nd Jamboree to be held July 2nd-4th, 1966 at the Fairgrounds in Hemlock, New York. The club is also in the process of obtaining a club house of its own after three years of hard work to this goal.

The Mascoma Valley Emergency Communications Team Inc. of Enfield, N. H. has found an interesting and successful way of helping to clean the air waves of CB of that "Slip of the tongue" profane language. Rules have been made up as well as forms for each member to have in their possession. If they should hear a slip from any one member they have to make the form out complete and turn it into the Membership Chairman and his committee to be signed and brought up at the monthly meeting, which a fine of 25 cents is due. This is also in effect at any club activity involving the public. We use the money collected from this "Membership Court" for first aid supplies. We have found that local CB'ers are also more cautious.

The North Hills Radio Club, Inc., 128 Mohican Ave., Pittsburgh, Pa. 15237 holds their meetings the 4th Thursday of the month at the West View Fire Co. #3, 540 Perrysville Road, West View, Pa. at 8:00 P.M. Their 66 officers are: President, Dom Assisi; Vice President, Robert Sapp; Secretary, Lova Jordan; Corresponding Secretary, Marian Ryan; Treasurer, Lois Hallstein; Directors: Al Jordan, George Klein, Robert Hallstein, Robert Patterson.

Pittsburgh Squadron 602, Civil Air Patrol is now forming a Communications Flight and is in need of communications specialists to assist its Emergency Service Detachment in Air Search and Ground Rescue Missions. If you are an American citizen, 18 years of age or older, you can be of service to your community by becoming a civilian volunteer in the Civil Air Patrol Auxiliary to the United States Air Force. For more information, call or write: Headquarters Sqdn. 602, CAP, 519 S. Fifth St., Duquesne, Pa. 15110, phone 466-7375.

The West Penn Automobile Club, Inc., AAA is erecting roadside signs in the Pittsburgh area to show they monitor CB radio on a 24 hour basis on channel 9, FCC call KNP5733. This club has been using CB radio since the fall of 1965.

Radio Rescue Service, Enfield (Conn.) Chapter, re-elected Joe Rivers president at its May meeting. The following were also elected: Vice president, Fred Gemme; Treasurer, Barbara Kula; Recording Secretary, Rusty Rivers; Corresponding Secretary, Alan Doty; Operations Officer, Fred Kula; Public Relations Officer, Miriam Gemme; Women's Auxiliary President, Stella Novak. Ronald Hale was appointed purchasing officer; Rick Ruotolo, Assistant Operations Officer; and Walter Novak, Security Officer.

Individual members of RRS have signed up as members of the Enfield Civil Defense organization.

With the advent of good weather, RRS is being kept busy with many requests for help: at the request of the American Red Cross they manned the first aid tent at the Armed Forces Day Air Show at Bradley Field, as well as being safety guard at a sky-diving event and standing by at a fire-fighting demonstration. They assisted local police in traffic control and communications during the Memorial Day Parade and together with East Hartford Chapter, will assist at the Soapbox Derby, June 4 in East Hartford.

In New London, Connecticut on August 19, 20th, 21st, will be held the 83rd Annual Connecticut State Firemen's Convention and Parade. The plan this year is to use CB units placed throughout the city for parade control and emergency communication for this event. There will be a small patrol in action on Saturday night, August 20th for the demonstrations at Ocean Beach Park but on Sunday the 21st the big show will be the parade. The Lower Valley Club from Old Saybrook will be the outfit handling the problems, under the able direction of Art Bennett, KMA9861; Communications Director is John Gates, Jr., 1Q3920 and Special Assistant to the Director is Rog Kenyon, KBC-0932. Federal Communications Commission has cooperated to the fullest extent by issuing a Special Temporary Authority for three days and the New London Police Department under Chief Francis P. O'Grady has signified complete cooperation. The parade itself is presently set up as sixteen divisions and estimates are that it will take a good four hours to pass any given point on the route. Control is planned to such extent that it will include the handling of

emergency calls, the dispatching of ambulance units, as so forth.

The Northern Berkshire Emergency Communications Club, Inc., was host to the Tri-State Conference for the spring, May 1, 1966 meeting. The full day of events took place at the special McCann Vocational-Technical School in North Adams, Massachusetts. The three (3) year-old conference group has grown to thirty-one (31) Citizens Band Radio Clubs from the states of New York, New Hampshire, Connecticut and Massachusetts. This organization is fast becoming the largest CB group in the entire East.

Many workshops were conducted in the interest of Citizens Band Radio, its many uses and benefits to the communities served.

The Technical Workshop moderator was Andy Denko. Under discussion were problems of ignition and suppression, noises and ways in which to eliminate them.

Ed Sharp was the moderator for the Financial Workshop. Considerable time was devoted to ways in which clubs may raise funds, insurance for club functions and emergency vehicles, taxes pertaining to clubs, dues, and advance planning for monthly or yearly events.

Publications Workshop, conducted by Bill Kasson, concerned the pertinent facts of financing, addressing, mailing, club assembly of material, and publications of club news media. Conducting a club newspaper, its personnel and many printing problems were discussed at some length.

The Workshop on Memberships, under the guidance of Dick Stoffels, concerned the methods of building and maintaining a good club. Stressed were social events and interesting activities for the entire family in order that a club may really grow.

The Community Service Workshop was moderated by Bill O'Neil. Means by which a CB radio club can assist and be of service to the community authorities, police, civil defense, and in emergencies were discussed. The importance of being available for various civic duties and how to be of maximum assistance were main topics.

Moderator of the general meeting was Albert Abraham. This, in itself, was quite a chore and very ably handled. Some new rules and improvements on present ones were considered and appropriate action was taken. There was considerable discussion about the fall Tri-State Conference site, to take place October 2, 1966. The choice as host club for this meeting will be the Citizens Band Radio Patrol, Inc., Box 713, Burlington, Vt.

The local Conference Chairman, Roger Bell, did a tremendous job of arranging and attending to the complex details that were necessary. Congratulations on a difficult task well done should also be extended to the many committee members that assisted Mr. Bell. Report via Carol Gladu, Publicity Dir., S9 A.P.R.E. MLV.

The Mt. Greylock Mobil-Ears Citizens Band Radio Club, Box 63, North Adams, Mass., will again be assisting in the Fall Foliage Festival events this year. The entire week will be filled with activities beginning on Sunday, Sept. 18th with a giant Air Show sponsored by the local Elks Lodge. The fancy flying and sky-diving, parachuting events will take place at the local Harriman Airport. During the week there will be fashion shows, open house events, a kiddie parade, displays of various sorts, and of course, selection of a Fall Foliage Festival Queen. The crowning of the Queen takes place at the grand Formal Ball Saturday, Sept. 24th. The following day is the climax of the entire week with a huge Annual Parade. The communications are supplied by the Mt. Greylock Mobil-Ears for Parade Alignment, Spacing, Control, and general inter-communications for emergencies. This is the largest event of the year for Western Massachusetts. See you there!

ATTENTION WESTERN MASS. CB CLUBS: Send your club news S9 A.P.R.E. Michael J. La Versa, Sr., 36 Marietta St., North Adams, Mass. "73's"

The S9 REACT Club, based in Wallingford, Conn., has scheduled its meetings for the 1st Monday of each month, with proposed coffee-breaks every 2nd Sunday. Membership has been expanding rapidly, and the group has offered its services to municipal and state authorities.

The members heard Wallingford's Chief of Police speak at the June 6th meeting, at which time he commended them on their aims, and their offer of assistance to the police at a time when he felt the rate and variety of crimes were on the increase.

(Advertisement)



CB IN ACTION

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

Here is a quick check that you can give your equipment to make sure that it is in top operating form.

1. Check the antenna at both the mobile and base stations for corrosion at the connector. Check all mechanical connections.
2. Check the transmitter tubes in the high level stages (the power amplifier and audio amplifier).
3. Check the receiver tubes.
4. Check the final amplifier in accordance with the tuning recommended in your service manual.

Now that you have checked our your equipment, let's make sure that you are tuned to the legal limit of 5 watts input.

In order to determine your input, check the plate current of the final amplifier by placing a 100 Ma meter in series with B plus to the plate of the final amplifier. Connect a volt meter to measure the plate voltage.

Now apply this formula:

$$P = E \times I$$

Where: P = Power in watts

E = Plate voltage in volts

I = Plate current in amps.

Example:

The plate current = .018 amps (18 Ma)

The voltage = 300 Volts D.C.

Then: $300 \times .018 = 5.4$ Watts

This is your input. This would be over the legal limit and you would have to decrease the loading of the final amplifier to .016 mls.

Checking your output is just as simple. Connect a pure resistive load across the antenna of the unit and an RF amp meter in series with it. Now use the formula $W = I^2 R$

Where: I = Antenna current in Amps

R = Resistance of antenna

W = Watts

Example:

I = .2 amps

R = 52 ohms

Then: $(.2)^2 \times 52 = 2.08$ watts RF output to the antenna.

Incidentally—I want to thank all of you CB'ers who have sent me your QSL cards. I have a nice card display set up in my office.

WIN A COMPANION II CB

"CB in Action" is your story. You can win a Companion II if we run your account of any event in which CB played an important role in helping you or your community. Send your story to Les Hench, Sales Manager, Pearce-Simpson, Inc., P.O. Box 800, Biscayne Annex, Miami, Florida 33152.

Plans are under way for summer and fall activities, and the office of publicity chairman was filled with the election of Mrs. Norma Eckert, KMA2517, for a two-year term.

Meetings are held at the Wallingford Boys' Club, and membership is open to any person interested in Citizens Radio, whether licensed or not, of any age.

The group hopes to meet with other clubs and organizations in Connecticut to plan joint activities.

ATLANTIC

The Frederick County CB Club Inc. has been quite busy the last few months.

First the newly elected officers this year are: President, Robert W. Barnhart, KMI2988; Vice President, John Robinson, KKI3031; Secretary, Sidney Rhodes, KKI3328; Treasurer, John Breeden, KK14543; Legal Advisor, Upton J. Quinn, KCG3805; Members-at-large, Rev. Paul Cordell, KCG3035 and Oliver Weddel, KCG-3603.

At Christmas the club sold trees which turned into a very profitable business adventure.

Their H.E.L.P. station on top of Braddock Mountain was broken into and a CB radio was stolen along with other damages.

At the present the club is setting up plans for their second annual CB Jamboree on July 31, 1966 at the Brunswick Eagles Club park. Last years Jamboree was a big success and the way things are going this years will be even bigger and better.

All of the clubs proceeds from these fund raising drives go toward the expense of operating the H.E.L.P. station.

The new club address is Frederick County CB Club, P.O. Box 231, Frederick, Md. 21701.

Having only been charter for 15 days the Muscogee-Russell County REACT Team was mobilized at 8:30 P.M., April 25, 1966, to search for a lost 4 1/2 year old boy, who had been lost for 3 hours. The response was 75% of membership and many non-members also participated in the search. At 9:30 P.M. the search was called off, and for a very good reason, the boy had been found. All members of REACT reassembled and held a short critique of the events that had taken place.

On April 20, 1966, the following officers were elected: Director, George Nihart, KMM7629; Deputy Director, Hal Allen, KMM6543; Secretary-Treasurer, Victor Aviles, KNT0352.

Board of Advisors: Harry Conaulyea, KDE0719; Russell Minton, KOM1903; Arthur Taylor, KMM3142; Jacob Yearly, KOM0147. We also welcomed 3 new members to our team.

The P & RCRA (Potomac & Rappahanock Citizens Radio Association Inc.) was formed in 1962. The club now consists of 123 members who meet the 2nd Sunday of each month for conducting club business and a lot of good food. The club invites all CB'ers to come by and get acquainted.

The members have participated in many worthwhile projects in the community including searching for lost persons, assistance and communications at fires and accidents, and giving directions to tourists.

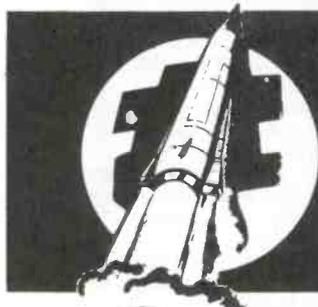
The CB'ers in this area are especially proud of the courtesy shown to others—even when traffic is heaviest "breaks" are always respected and there is always someone on hand to report "10-33," make phone calls or relay messages.

The 1966 club officers are: President, Jim Butler, KCI5426; Vice President, Bill Hanks, KKK1031; Secretary, Polly Williams, KKK0811; Treasurer, Pat Posey, KCJ7600; and Sgt.-at-Arms, Charles Williams, KCJ7764.

The 3rd annual jamboree held by the Winc.-Fred. County CB Radio Club, Inc. termed a success.

The Issac Walton Park was the scene of the recent Winc.-Fred. County CB Radio Club, Inc. 3rd annual Jamboree. Approximately 500 CB'ers from all over the country turned out for this big event. Over 30 prizes were given away including an Aiwa Mike, silver serving dish, Lark camera, car jack, toaster-broiler, rod & reel and others. Plaques were given to the Tri-State CB Club of Charlestown, W. Va. for having the most members present, to Ira S. Hines Jacksonville, Fla., the oldest CB'er (71 years young), and the CB'er the longest distance from home, Jearld Miller of Lancaster, California. Music for the afternoon was provided by "The Barons," a local teenage group and hamburgers and hot dogs were grilled to order by club members. The winners of the chance book drawing were as follows:

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On March 26th of this year the Fort Henry CB Radio Club, Inc., was presented an award by the Wheeling Jaycees for its outstanding civic service to the community, by way of offering two-way radio communication for various parades and other events around the valley. The club was also cited for its emergency communication network around the area during damaging floods which occur in this area quite often. The award was presented to club president "Bud" Seidler by Jaycee president Byrd A. Crawford, at the Jaycee's annual Citizen of the Year Banquet. Also at the banquet was club vice president Leo Zavolas, and secretary Drage Flick, Jr. After the affair was over the main speaker for the evening, Frank Blair of NBC News and the "Today Show" talked with the three officers present.

PACIFIC

Benton County Civil Defense Citizens' Band will sponsor a coffeebreak on Sunday, July 24, 1966, at the Benton County Firgrounds, Corvallis. The all-day affair features over \$150 worth of door prizes, plus several larger prizes and a 23-channel radio as the grand prize. Hot dogs and hamburgers will be sold (coffee free, of course), bingo and card games going all day. The organization purchased an army-surplus ambulance from proceeds last year and this year is converting and equipping it with communications equipment for use in outlying areas in case of search or emergency of any kind. Current officers include Joe Dingus, KLC-1962, Battalion Commander; Bev Bielman, KNC0170, Company Commander; Charles Boeder, KNC0285, Asst. Co. Commander; Mary Hardenbrook, KNC1077, Company Clerk; Lorene Vunk, KFG0290, Finance Officer; Roy Loney, KLC1197, Supply Officer; Claude Vunk, KFG0290, Platoon Leader; and Harley Trosper, KNC-0772, Platoon Leader.

CENTRAL

The React Mobil Patrol a newly formed organization. That was in the planning for 1½ years, is a fast becoming, very efficient operation communication net. Besides working closely with REACT headquarters, the team has extended their services to the State Police Post and the local office of the Civil Defense. The group covers the greater Ingham County area and surrounding counties.

The team has a membership of twenty-one which are in complete uniform dress. Chief of Operations, Andy Andrus, KHG1812 reports the team is just completing their Red Cross First Aid Training and will immediately go into Civil Defense Training. Other officers are: Russ Smith, KNM1813, Secretary; Milt Smith, KNM4034, Treasurer; William Perfitt, KPM0836, Quartermaster; William Smith, KNM3590, Sergeant-of-Arms.

The team monitors channel 9 with their emergency channel being channel 17. The team would like to hear from other REACT teams. Thier address is: REACT Mobil Patrol, P.O. Box 9114, Lansing, Michigan.

The Fox Valley Citizen's Band Sentinels of Elgin, Illinois elected the following officers for 1966: President, Robert L. Tolley, KHD3159; Vice President, Mike Szula, KHD1251; Secretary, Mary Lou Szula, KHD1251; Treasurer, Jerry Hattendorf, KNK0086; Corresponding Secretary, Evie Cirrincione, KLJ8564. The club directors are: James Gough, KHC8141; Alva Hughes, KNJ2637; Paul Kerber, KHD3368; Harry Vose, KHA4741.

The membership is near the 70 mark. The club meets the first Friday night of each month at 8 P.M. in Elgin. Club paper is called "The FOX HOLE." The club monitors channel 13.

Waterloo, Iowa—Northeast Iowa CB Club Inc. 300 CB attended a coffee break in Evansdale, Iowa, with the cooperation of the Community Teen Time who supplied the building for the coffee break. Help came from E.R.S. Radio Service, LaPorte City, Iowa, who supplied the coffee for the event. Guest for the day was Joe Hazan, KGI6746, Stanhope, Iowa, with Fred Bentley, KNH5164 as the speaker for the day.

CB OPERATORS SHOW SPEED IN "EMERGENCY"

Evansdale—An exercise in using shortwave radios for emergency here Sunday found that 23 CB radio operators had their units in place within 40 minutes.

Police Chief Floyd Warneka, praising the efforts of the Northeast Iowa Citizens Band Radio Club Inc., said 23 mobile units were stationed in the city within 40 minutes of the start of telephone calls for the drill.

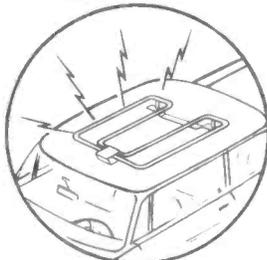
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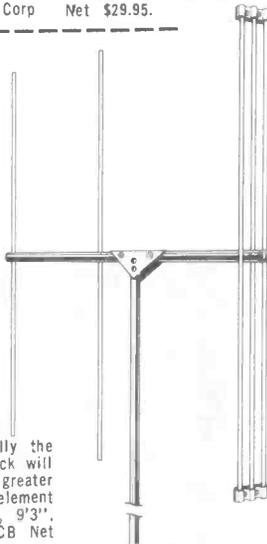
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The DDRR Antenna has been designed to incorporate the electromagnetic efficiency of naturally resonant quarterwave whip antennas with a low profile which can be easily installed on vehicle roof tops and precisely tuned over a wide range of frequencies. Because of its unique design features, the DDRR Antenna will normally outperform quarter-wave mobile installations, both in transmit & receive modes. Other frequencies available — from 27 to 180 MC. CB Net \$29.95.

VERTICAL 3-ELEMENT BEAM

MODEL CB-51

Maximum in range, efficiency and performance. A vertical three element beam giving an 8 DB forward gain with an expanded beam width in the forward direction, and at the same time by use of a reflector screen (Triple reflectors provide higher front to back ratio than normally provided on a 3 element beam) the front to back is greatly improved. Actually the increase of front to back will give the effect of a greater forward gain. Longest element — 18'2", boom length, 9'3", turning radius—10'4". CB Net \$39.95.



NEW TOROID TENNA

The Toroid Tenna is a super-efficient, compact mobile whip that measures just 42" in length. Toroid Tenna's quality construction incorporates toroid transformer in base to boost transmit range; all brass and stainless steel; screw-driver adjustment for perfect VSWR (no cutting or trimming needed); weather/water-proof, chrome-plated base. Transformer and capacitor are completely shielded for noise-free operation. 27 Megacycle TOROID TENNA; \$21.95 Net.

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The radio operators were stationed at strategic locations in the city as they would be in a flood or other emergency.

Community Teen Time Inc. has invited the radio club to use the Teen Time building at Meyers Lake and Trail Ave. as a facility for club activities.

HUB AREA RADIO KLUB (HARK)

A new CB club has been organized in the Oelwein area, **Hub Area Radio Klub (HARK)**. The newly elected officers are: President, Larry Wegner, KNJ-0718; Vice President, Eldon Wardell, KNJ9408; Secretary, Robert Christensen, KPJ4263; Treasurer, George Yount, KLJ5006; Historian, Bud Fisher, KHD-5493; Coordinator, Ken Petterson, KKK2989; Ralph Kephart, KNJ4025; Contact: Larry Wegner, KHJ0718, 120 8th Ave., S.E., Oelwein, Iowa.

CB'ers search for "wreckage" in Sunday Alert—Hub Area Radio Klub members spent several hours Sunday afternoon searching for the bodies of a jet fighter pilot and his co-pilot after the plane crashed somewhere east of Hazelton and the two parachuted to earth.

HARK members Roger Carlson, Ralph Kephart, Robert Christensen, Larry Wegner, Larry Reiling, Roger Coker, Kenneth Peterman, Walter Sellers, Larry Smith and Eldon Wardell participated in the surprise emergency alert called by Christensen and Wegner.

Plane wreckage was discovered after a prolonged search by Citizen Band radio operators at the Donald Saathoff farm near Hazelton. The straw-stuffed bodies were found hanging by their bed sheet parachutes in trees at the Miles Gardner farm some distance away.

500 ATTEND C.I.C.B. COFFEE BREAK AT IOWA STATE FAIRGROUNDS—The Central Iowa CB Club, Inc. of Des Moines, Iowa, was host Sunday, May 15, 1966 to a gigantic Coffee Break at Teen Town in the Iowa State Fairgrounds. About 500 CB'ers and their families attended. Over 1100 cups of coffee and Pepsi were served from 2 P.M. to 6 P.M., along with over 2500 donuts and cookies and 200 beefburgers.

The grand prize of a Johnson Messenger 100 was won by Duane Lasher, KG17832, of Des Moines. Many other door prizes were given away. CB'ers came from

as far away as Wilmington, Delaware to Orange, California.

A special treat at the C.I.C.B. coffee break was the live entertainment by "Helen and The Rockabilles," a seven piece country music and rock and roll band. The enjoyable music was headed by Helen Throckmorton, Wayne Throckmorton, Barbara Lehman, Howard Lehman, Charles Miller, Herb Fausch and Alfred Hill, KNH3559.

Displays consisted of a radio display table of CB rigs owned by C.I.C.B. club members, a card swap table, a name badge ID engraving machine (Luloff Enterprises of Evansdale, Ia.), a radio dealer display (Hawkeye Communications of Marshalltown, Ia.), another displayer taking orders for call pins (M & M Sales of Melbourne, Ia.), a QSL card printer (Dennis Litzenberg of 1321 E. 14th St., Des Moines, Ia.), and a table set up for selling and taking subscriptions for "The Breaker," the monthly newspaper of the Central Iowa CB club, besides all the tables used for registration, name tags, refreshments and beefburgers.

Members of the Central Iowa CB Club, Inc. who participated in the largest coffee break in Iowa were: President, Jack Doggett, KLH4994; Vice President, Ron Harter, KNH8947; Sergeant-at-Arms, Wimp Winterberg, KGJ0538; Secretary-Treasurer, Kathie Churchill, KNH1056; Ted Hesseltine, KL10477; Lowell Huggins, KNH4098; Helen Iiams, KGI7580; Ruth Ann Morrison, KGI1582; Slim Pittman, KLH7495; Morey Propstein, KNH9348; Bill Pennington, KLH6044; Clarence Reed, KNH6661; Sharon Utterson, KNH-8016; Bobbi Levin, KPH0527; Chuck Norton, KPH3423; Bom Thoma, KLH2194; Dean Churchill, KNH1056; Arlene Doggett, KGI4987; Peg Harter, KNH8947; Joan Hesseltine, KL10477; Ralph Sheets, KGI7662; Marie Huggins, KNH4098; Carroll Morrison, KGI-1582; Bertha Propstein, KNH9348; Bev Pennington, KLH6044; Charlotte Reed, KNH6661; Bob Utterson, KNH8016; Sandy Norton, KPH3423; Marilyn Sheets, KLH7379; Sharon Thoma, KLH2194; and Mike Levin, KPH0527.

The C.I.C.B. club monitors channel 9 in Central Iowa. Correspondence, etc., may be sent to the Central Iowa CB Club, Inc. in care of the President, Jack L. Doggett, 8060 Dema Drive, Des Moines, Iowa 50315.

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WESTERN

West Valley REACT was very honored to be host to 28 orphan and underprivileged children, ages 6 through 12, from the Nazareth House in Van Nuys, Calif, for a Easter outing. Under the direction of our Mobile Chairman Gym Schmidt, KKK5495, West Valley REACT Mobile Emergency Team undertook a Mobile Exercise to pick the children up and transport them to the North Hollywood Park, where upon arrival there were games, prizes and a picnic awaiting them. Doug Geyer, KMX0834 and Eddie Finch, KMX8819 did a yeomans job of keeping the afternoon active and the children happy. West Valley REACT is very grateful to the many radio electronic and hobby shops in the San Fernando Valley that donated gifts to our outing. The children were thrilled with the assortment of prizes to be won ranging from walkie-talkies, transistor radios, model airplanes, cars, and many hobby crafts. During the afternoon we were honored to have Battalion Chief Petterson of the Los Angeles Fire Dept. with a unit of the Los Angeles Rescue Squad, stop by and demonstrate to us their purpose and many functions they perform. A highlight of the demonstration for the children was while during their talk, they received an emergency call and with red lights flashing and siren wailing they departed for their task. Children and adults stood amazed at the speed and precision in which they REACT to an emergency. The afternoon of fun and games was completed by a grand slam Easter egg hunt for over 14 dozen eggs, which were donated to us by a great CB group, the Burbank Coffee Break Assoc. At 5 P.M., the children were reluctantly returned to the Home via our Mobile Emergency Team and West Valley REACT members departed for their homes, all of us feeling a little prouder and happier, for making this "A day to remember" for those children and us. West Valley REACT has now voted unanimously to hold two of these type community events a year.

On May 15th of this year, a large brush and grass fire developed on the north side of Camp Williams, National Guard, military reservation. . . . It is understood that the fire developed from a passing motorist by throwing a cigarette in the dry grass and brush. Rapid combustion burned a very, very large area of the near wasteland in this area. . . . After the fire was well underway, a passing CB'er reported the large fire in progress to Mr. Aolph Fair, KPE0003, of Provo, Utah. He in turn contacted Mr. Bryant Gates, KGC-0269 of Orem, Utah and KPE0582 (name unknown) and they in turn contacted the Fire Warden of public grounds in Salt Lake City. . . . In due time many fire engines put out the raging fire on the public lands and all returned to solemnity. . . .

Hats off again to CB'ers in this area for their help and all members of REACT who helped relay the messages back and forth. . . . Mr. Fair, KPE0003 should particularly be commended for his actions in the public interest. . . . He is a local CB operator who operates a telephone answering service in Provo, Utah and has been totally blind since he was two years of age. . . . Apparently this wasn't a handicap in his handling of an emergency situation as a CB operator. . . . He is also a member of "REACT" in this area and a very valuable active member of same. . . . The way he operates his PBX Telephone Answering Service board is a marvel to behold and an inspiration to anybody who knows him. He is also a amateur radio operator holding a general license as well as a CB operator and an expert typist. . . . He is in fact a great credit to any REACT Organization and should be highly commended for his efforts in the public interest. . . . We are very proud indeed to have him in our unit of REACT. This A.P.R.E. is very proud to call him "FRIEND." . . . Who among us has greater problems than this? . . . Mr. Fair is presently a resident of Provo and previously of St. George, Utah.

RADIO OPERATORS IN COLTON FORM ARROWHEAD REACT

As association of citizens band radio operators has been formed in Colton to provide a supplementary system of radio communication for local emergency situations.

Called Arrowhead REACT (for Radio Emergency Associated Citizens Team), the organization will serve the San Bernardino Valley on a round-the-clock basis to relay emergency messages to the proper authorities.

Coordinating the program will be Melvin G. Nutting of 932 Western Ave. in Colton. His home will serve as

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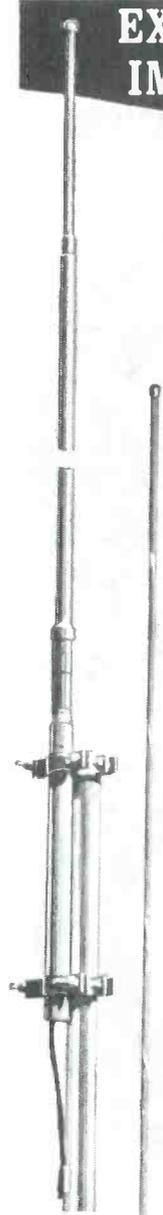
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the headquarters monitor station of Arrowhead REACT.

"Citizens band radio has proved the difference between life and death in many communities," Nutting said.

"From an accident scene on a remote country road, a citizen whose car is equipped with citizen's band radio can instantly alert an ambulance, doctor or hospital staff. He can save precious moments in disaster situations where emergency oxygen or a resuscitator is needed."

Nutting said citizen's band radio has other community uses as well. "We expect to utilize its potential more fully through organized effort," he said.

The Arrowhead REACT team is part of a nationwide group of more than 30,000 citizens organized into about 1,000 REACT teams, Nutting said.

The radios have a practical range of 10 to 30 miles, require no exams for licenses and are available to anyone over 18.

The month of May was one of interest, excitement, education and sadness for the members of West Valley REACT.

At 7:22 P.M. sharp May 10th, West Valley REACT Mobile Emergency Team received notice to go to their alert stations. Exercise coded 920 (missing person) was in effect. Comprehensive identification of the missing person and the car he was driving was given to the mobile units. Sitting in with control while the exercise was in operation was Sgt. Chuck Cole of the Los Angeles Police Dept. who is an advisor appointed to us by Capt. Eugene Litton Division Commander, Los Angeles Police Dept. At 9:15 P.M. the missing car was sighted and at 9:20 P.M. the missing person was found. At 9:24 P.M. the Mobile Emergency Team was clear with control and proceeded to our meeting hall to discuss the evening run. A comprehensive report on the exercise will be submitted by our advisor to Capt. Litton.

During the afternoon of May 12th, a call was received from a Mr. Carter requesting us to assist him in the search for a dog that had bitten him. A phone alert had our units on the scene in a short time. A house-to-house canvas was made and although several leads were uncovered, the dog was not located.

May 24th, at 7:30 P.M. at our general meeting, the question "What does a person do when suddenly someone's breathing stops?" was answered for us by Pacific Telephone's staff supervisor Jim Crump. This special program featured a demonstration on a life-size model called Resusci-Anna. Modern techniques of mouth-to-mouth resuscitation was explained along with the history of life saving methods from the ancient Egyptians to modern times. A film "Breath of Life" was also shown as part of the program.

8 A.M., May 28th, a little 3 1/2 year old girl, Elvia Cespedes wandered away from home. A phone alert put West Valley REACT Mobile Emergency Team into action, an intensive seven-hour search covering a ten square mile area was conducted. Many volunteer organizations participated in the house-to-house search. Finally at 3 P.M., alive but dazed, she was found in an empty field. Doctors examination showed she had been criminally assaulted. As of this writing, her attacker has not been found.

So ends another full month of activities for West Valley REACT.

59, CB CLUB PROFILE

From time to time, S9 will profile a CB Club, which in this writers opinion explains the better use of CB. The letter below is written by Betty Olson, KHCG212, Secretary of the 90th Meridian CB Radio Club, Inc.

The Ninetieth Meridian Citizen's Band Radio Club Inc., Sauk County, elects new officers for the year 1966-67.

Tuesday, April 5, 1966, marked the second anniversary and the annual meeting of the Ninetieth Meridian Citizen's Band Radio Club Inc., Sauk County, Wisc. As is outlined in the Club's Constitution and By-Laws, new officers were elected.

Richard A. Gant, KLJ9072, President and Richard F. P. Olson, KHA4699, Secretary-Treasurer have held their posts for the two years the club has been organized. The two have worked hard in behalf of the club and its members to groom an idea into a very active civic-minded organization. The objectives of the club became a serious part of their lives and left no opportunity slip by that would strengthen the club or its intentions. Any number of times you could hear them refer to the

Continued on page 70

READERS' BONANZA!

TAKE YOUR PICK OF THESE GIFTS!

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

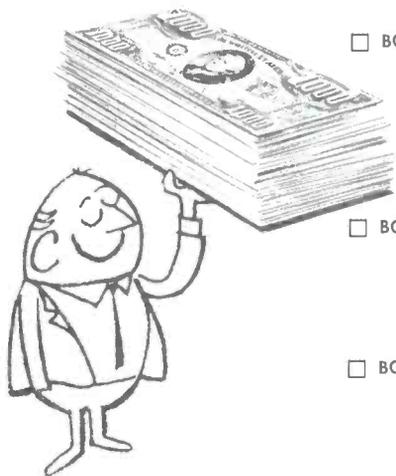
BONUS ITEM #1 — Large 3 inch, 3 color, "Monitor Channel 9" decal. Regularly sells for 50¢.

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

BONUS ITEM #3 — S9's CB Interference Manual, a complete handbook covering the elimination of TVI, detection and elimination of power line interference and noise, and CB mobile ignition noise. Everything you need to know, including details of obtaining free TVI high-pass filters. The books sells to non-subscribers for \$1, you can get it FREE.

BONUS ITEM #4 — CB Operator's Guide. Book containing summary of major CB rules and regulations, PLUS glossary of CB words and expressions, PLUS directory of CB channels, PLUS call area map and guide to all current prefixes, PLUS sample CB messages, PLUS 10-Codes, PLUS instructions for using REACT and HELP monitors.

BONUS ITEM #5 — Jazzy blue-with-white, red-with-white or black-with-white plastic badge engraved with your callsign. Big 1" high by 3" long. Just the thing for a jamboree or use the pin to stab artichoke hearts or your aunt Maud in the clyde. \$1.50 value. Specify color combination.



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Continued from page 66

membership as the finest collection of wonderful people you might want to meet and share interests with. They attribute the success of the clubs to the willingness and sincerity of the members, without their untiring support they could have done nothing and the membership motivated their every efforts. Both hold offices in other organizations other than CB and have remarked, "CB's are the finest people to work for." Singly, Dick Gant holds the honor of being the first President of the Wisconsin State Radio Association. Much could be written about both these fellows, but space would be too demanding.

Although the two Richards did a fine job with their offices, the club can still hold its head high with excellent officers. As is outlined in our constitution, and by-laws, Phil Niles, KLK6170, who has held the office the past year as president-elect, automatically moved up to president. Phil worked very closely with the officers and is very much aware of the club's affairs and will make a fine president.

The club realized the abilities of our Ike Kowalke, KNJ5263 and elected him president-elect. Ike has served on the Board of Directors for the past two years and never a harder more conscientious man ever was than Ike. Without Ike on the Board of Directors, these past two years would not have been accomplished as smoothly. Our membership is happy to have him in this post, as it means we will have his talents in the center of the club's affairs for the next three years. Few clubs have this privilege, and with a guy like Ike, we put a capital on Privilege.

I think our club is also fortunate to have in its constitution and by-laws that the president falls into the Board of Directors as past president and secretary moves to the Board of Directors as past secretary.

The club voted a young ambitious man, Vaughn Conway, KLK8690, as the elected member of the Board. This is a serious position as is stated in the constitution. Should the president-elect either move to president or resign his president-elect position, the elected member of the Board fills the post of president-elect for the remainder of the year and then moves to president as is the procedure. We are very happy with ourlection and feel very secure that our club will progress and grow with great strides in the year 1966-67.

The club has amended its constitution and by-laws to split the office of secretary-treasurer which Dick Olson has been holding. The club elected its first treasurer, Marlys Isley, KNJ5996. Marlys is a teacher in the high school and will do a fine job. Her charm and friendliness won her many members paying their annual dues after the meeting. Although Dick Olson was going out of office as secretary, he will still have to carry the club's two very heavy brief cases, as his wife, Betty Olson, KHC6212, was elected secretary. Betty is a registered nurse and has been an active CB'er in the club and on the air. Her four children keep her home from the hospital and so she monitors the CB onchannel 9 for the club in Reedsburg. Between Dick's wife Judy and Betty, one can be sure of an answer for help, direction, or just chit-chat at any time of the day or night.

Our club also enjoys the privilege of broadcasting over our local radio station WRDB for fifteen minutes once a week. On these broadcasts, the club informs the listening public of CB's role as a public servant to the community and acquaints them with the steps necessary to purchase a license, set up a base station, or perhaps both a base and mobile station, and acquaints them with the CB 10 Code.

Two big events that will be facing the new officers in the next two months, are the Fly-In-Drive-In Breakfasts held annually in Baraboo and Reedsburg. Formally these breakfasts were sponsored by the local Civil Air Patrol of the respective communities. Last year the 90th Meridian Citizens Band Radio Club Inc., was asked by the commander of the CAP, Don Prothro of Reedsburg, if we would consider cosponsoring the breakfast with the CAP thereby benefiting both clubs monetarily and socially. The event was a big success and as a result, the club has been asked to again work with the CAP but not only in Reedsburg but Baraboo as well. The members agreed unanimously to cosponsor both events. The Baraboo breakfast is May 22nd and the Reedsburg breakfast is June 5th. Here's hoping we have good weather and a big crowd both of airplanes and CB'ers.

SOUTHERN

Miami, Florida—Dade Communications Network, of



Dade County, recently completed a "First" for local Civil Defense headquarters. Thought to be the first in the United States, a test was conducted to determine short range communications could be maintained from Radiological Monitoring stations throughout the county and Civil Defense headquarters in the event of other facilities failing.

Mobile units were assigned to RADEF Monitoring stations, located at local departments and at local municipal buildings throughout the county. These mobile units relayed traffic to the assigned relay stations in their areas. Relay stations then relayed these messages to control at the Civil Defense headquarters. Other base stations of members acted as traffic monitors and recorded the entire exercise. There was much interference, but this helped our test to be so successful. Proving that messages can get through in the worst possible conditions. By running a test on a quiet channel, the whole point of the test would not have been obtained. Civil Defense authorities were very pleased with the results of our test.

In other activities, members of D.C.N. have completed a 16 hour course in Radiological Monitoring at the North Miami Civil Defense headquarters of North Miami, Florida. The classes consisted of detection of Radio Active Fallout, and the proper precautions to be taken in case of a nuclear attack. These and many other courses are offered to groups like ours in many areas.

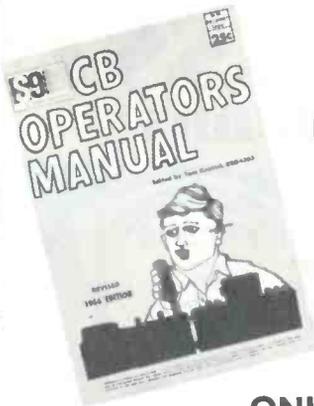
D.C.N. is also in the process of establishing a monitoring and emergency relay network for Marine CB'ers in the South Florida area on channel 13, on the weekend.

D.C.N. Director, Arthur DeMario, KMP0686; Deputy Director, Harold Kaufman, KD12126; Secretary, Robert Fulks, KMP3242; Board of Directors: Robert Northcutt, KKP4377; Lee Whitney, KD14144; Joseph Tipton, KMP2993, and Ed Leibhauser, KMP0296. D.C.N. is a non-profit organization for community service. Meetings are held each Tuesday night at the Madison Jr. High School, 3400 N.W. 87th Street, Miami, Florida.

The CB'ers of St. Martin Parish, Louisiana have joined together to form the Crawfish CB Association. The club motto being S.M.A.R.T.—meaning St. Martin Alert Radio Team. The elected officers for the coming years are President, J. C. Hooper, KMR6782; Vice President, Lawrence Gauthier, KMR6748; Secretary, Lenny Brasseaux, KOR0666; Treasurer, Raymond Patin, KMR6334 and Reporter, Mrs. Carrol Russo, KMR6440.

In the four short months the club has been organized the membership has risen to 70 and has expanded to include, beside St. Martin Parish, members from Lafayette, Iberia, Acadia, and St. Landry Parishes. The club meets once a month and visitors are always welcome.

One of the accomplishments of the club thus far has been to set up a monitoring station at State Police headquarters in Lafayette. The super magnum used for that purpose was donated to the club by a member, J. C. Breaux, KMR6767 of Grand Coteau. The club has also been working closely with the Civil Defense and Sheriff's Department in St. Martin Parish and has elected to relinquish control to same, all necessary



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

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equipment in time of emergency. A club bulletin called S.M.A.R.T. TALK has been in publication for the past two months and so far has proven to be a huge success. The club has chosen to wear red uniforms with patch on the backs depicting King Crawfish; thereby honoring Breaux Bridge, Louisiana, the Crawfish Capitol of the World.

Baton Rouge citizens will have the chance to sign petitions seeking changes in local traffic law enforcement, engineering and education Saturday as signing tables are set up in 24 locations.

The Traffic Action Program petition areas will be identified by large posters and tables will be manned by local student and club groups.

Signatures received Saturday will be added to some 5,500 already on hand for the Citizens Support Committee to be sent to Mayor-President Dumas and the City-Parish Council.

The program seeks stiffer enforcement of traffic laws, better training and higher salaries for policemen, an increased budget and more authority for the traffic engineer, stricter traffic court justice, hiring of a full-time traffic prosecutor, and coordination of public safety education programs.

Groups to Help

Clubs whose members will help in the petitioning are Baton Rouge, Baker and Central Jaycees; Executive Secretaries; Altrosa; CENLA Region of Sports Car Clubs of America Inc.; Citizens Support and Traffic Safety Committees of the Safety Council; the Maggie Ringold YWCA; the Order of Rainbow for Girls; and Alpha Omega service fraternity and Gamma Sigma Sigma service society of Southern University.

Student groups who will staff tables at several locations each are the Catholic High Key Club, and the Baton Rouge, Istrouma and Lee High School Safety Clubs. Passersby, whether they care to sign the petition or not, will be offered free "Be A Safe Driver . . ." leaflets and copies of the New 1966 National Drivers Test Form, which will be televised locally at 9 P.M. Tuesday.

Members of the Greater Baton Rouge Citizens Communication Association will support Sign Traffic Action Program Petition with radio units at the various locations to relay hourly results to the local media on how many signatures have been obtained by each team.

Mobile and stationary units from the Greater Baton Rouge Citizen Communications Association supported and coordinated the days drive and relayed hourly reports from the various locations to local commercial radio stations.

ALERT (Allied Louisiana Emergency Radio Team), Inc. of Baton Rouge, Louisiana is an emergency CB radio team comprised of almost 100 members. The club was founded in May of 1965. Since then, we have assisted local officials in such emergencies as hurricane Betsy, the chlorine barge lift from the Mississippi River, and many other incidents requiring civilian assistance. Since its beginning, ALERT has experienced tremendous growth and success.

ALERT also has broad plans for the future. A First Annual Installation and Awards Banquet is planned for June 21st. Many prominent speakers and guests will be present. We are aligning ourselves closely with the La. State Police so as to assist them better. We plan to equip their headquarters with CB radio and have them operate as a unit of the club's call letters. ALERT is helping another organization with plans for a jamboree here in Baton Rouge on July 16th and 17th. It will be known as the "Red Stick" CB Jamboree. Also, the club has been asked to provide security and communications at the upcoming Baton Rouge State Fair to be held in November.

ALERT operates a control room in the Beelmont Motor Hotel here where we monitor channel 23 (ALERT's monitoring channel), channel 9, city police frequencies, any state police frequencies as KMR5905 Alert Control to lend assistance to anyone and to handle any emergency traffic. The control room is operated by members from 8 A.M. until 12 midnight each day in four hour shifts.

Recent elections at the May meeting resulted in the following officers being chosen to take office on July 1st: President, Earl Normand, KMR6164; Vice President, George Weimer, KMR4364; Secretary, Lillie Greer, KMR2646; Treasurer, Wessie Dunaway, KKR-2646.

ALERT meetings are held on the third Thursday of the month. All guests and new members are welcome.

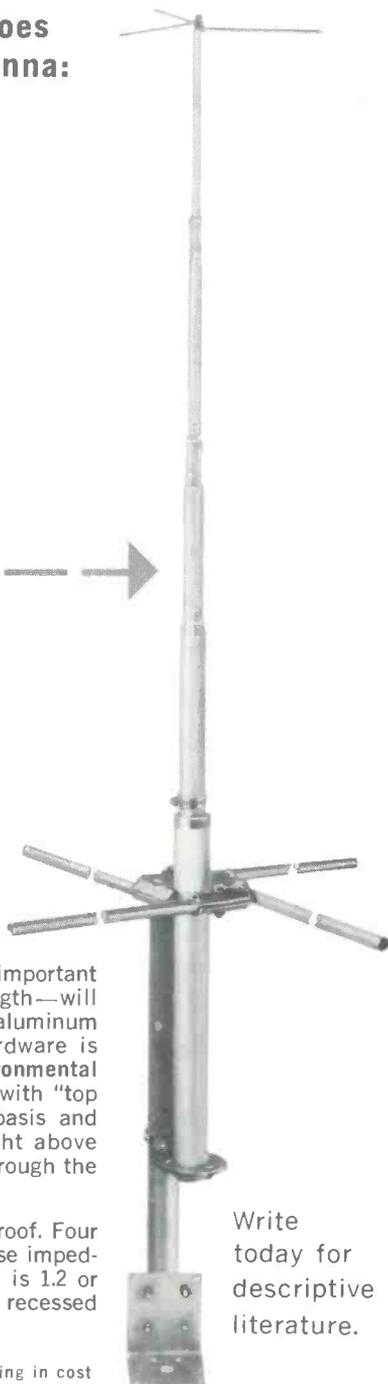


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This superior, high quality antenna offers several important advantages: It is sturdy—has great mechanical strength—will withstand 100 mph wind loading. All tubing and aluminum parts are MIL SPEC protected—all assembly hardware is stainless steel. This antenna will stand up in environmental extremes. It is comprised of 4 telescoping sections with "top hat" capacity for operation on a 5/8 wavelength basis and added gain over conventional GP antennas. Height above radials is 19 feet. Direct grounding of the antenna through the base network provides lightning protection.

The matching network is encapsulated—moisture proof. Four rigid 5' radials of 5/8" tubing serve to stabilize base impedance and radiation pattern. VSWR with 52-ohm line is 1.2 or less. Support column below radials is terminated in a recessed SO-239 standard coax receptacle.

BCX-1 Coaxial Base Station Antenna . . . can be used at a saving in cost where requirements are less stringent. Aluminum outer sleeve, stainless steel whip. Uses standard 1" pipe for support column (not supplied).

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RAYTHEON COMPANY

213 East Grand Avenue, South San Francisco, California 94080

"What's an ad for a Ham magazine doing in a CB mag like S9?"

Well, for one thing, CQ is published monthly by the publishers of S9. Being chock full of technical articles, and construction projects for the radio amateur, the hobbyist and the electronic experimenter, CQ is a must for anyone interested in radio as a hobby. CQ could very well heighten your understanding of and interest in communications activities. CQ can be an invaluable supplement, providing a wealth of technical data and ideas.



CQ sells for 75¢ per month, BUT S9 readers may subscribe at substantial savings. You can obtain a one-year sub with the special coupon below for only \$4.50 per year, A SAVING OF A FULL 50%!!!

This offer is limited **DON'T DELAY!!!**

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Enclosed is my remittance of \$4.50 for 12 big issues of CQ.

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Shack shown here is operated by Bob Hertzberg, KLK6006, Mequon, Wisc. It's a little dark but we can see a Hallicrafters receiver, e.c.i. CB rig and lots of QSL cards, including one from Barry Coldwater, K7UGA.

Remember Mike Thompson, the contributor in Vancouver who drags in great DX with a Sony transistor portable? Well Mike moved to a new location but hasn't lost his touch. Now he's using a guy wire from his TV antenna for the receiving antenna on the Sony and has snagged stations like 250 watter KXEO in Missouri, KYND in Arizona, KINY in Alaska. He then picked up an ancient Rogers-Majestic receiver with bulky power supply and all. On this set he logged (on shortwaves) England, Switzerland, and Japan, plus CAP stations on 4585 kc/s including KAF360, KOF428, KOF430. Mike asks if they QSL at CAP stations—

the answer is YES in most cases, if you can get the proper mailing address of the station.



Here's a well equipped shack run by Don Kelley, KCJ3095, Glen Allen, Va. Rig is a Hammarlund HQ-100A, with a 200 foot long-wire antenna. Don has logged 59 countries and has verified 53 of them. As a CB QSL swapper he has 14,000 cards.

Regular reporter Steven Jones, KLO0519, Lawrenceburg, Ky., has sent in his usual interesting report of stations heard via his Lafayette HA-230 and new 275 foot longwire sky hook. Among those stations which he heard are: UMS, a Ukrainian (USSR) CW station on 15885 kc/s at 2225 EST; IQX in Trieste on CW at 2246 EST on 13155 kc/s; Ham stations: CR4AJ, EI4AN, 6Y5OF, ZD8AR, PY2CSO,

Continued on page 79

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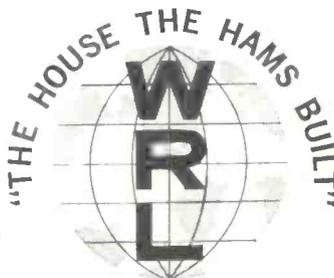
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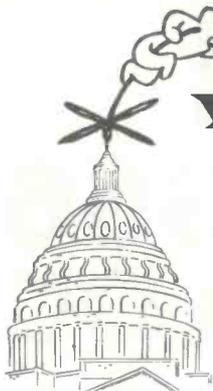
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WASHINGTON OUTLOOK

This month the FCC worked over the following CB'ers.

- These operators had their licenses revoked:
KKT0988, Glenn D. Ward, Houston, Tex. (numerous violations including using station as a hobby or diversion, using an antenna more than 20 feet high, unauthorized frequencies, etc.).

- KKV7729, George T. Jackson, Ft. Worth, Tex. (not replying to official communications).

- KLP1832, Kenneth R. Hartford, Binghamton, N. Y. (not replying to official communications).

- KLA0962, George E. Gaddy, S. Francisco, Calif. (not replying to official communications).

- KBA1323, Richard F. Conefrey, Brockton, Mass. (transmitting communications containing obscene, indecent, or profane language, and false distress signals).

- KLM6825, James M. Brown, Huntington, W. Va. (failing to reply to official communications).

- These CB'ers received notices asking them to show cause why their licenses should not be revoked:

- KFD3823, Carl F. Staib, Albany, Calif. (not replying to official communications).

- KKA4037, Thomas K. Robinson, Auburn, Me. (not replying to official communications).

- KKI0902, Walter S. Adams, Baltimore, Md. (failing to respond to official communications).

- KDI2366, Sandra Cab Company, Atlantic Beach, Fla. (failing to respond to official communications).

- KMV6065, Jerry D. Stone, Copperas Cove, Tex. (failing to respond to official communications).

- KMA9149, Lou the 3rd Construction Co., New Haven, Conn. (failing to reply to official notices).

- KKI3885, Donald B. Richardson, Landsdowne, Md. (repeated violations of the rules by failing to identify station at times and in manner prescribed, using station as a hobby or diversion, communicating or attempting to communicate with other CB stations on unauthorized frequency).

- KNM2318, Frank M. Bush, Detroit, Mich. (making a false statement on CB application, also failing to reply to official communications).

- KMI3676, Aubrey E. Hawthorne, Jr., Baltimore, Md. (repeated violations by failing to identify callsign assigned at the beginning and end of each exchange of communications; willfully transmitting false and deceptive communications, communicating with other stations on unauthorized frequency).

- These operators received \$200 monetary forfeiture notices:

- KMM8650, John J. Glancies, Black Mountain, N. C. (failure to identify station by the assigned callsign at the beginning and end of each series of communications and for non-authorized communications).

- KKM9543, Thomas H. Norris, Atlanta, Ga. (not properly identifying station, using station as hobby, unauthorized frequency).

- These operators received \$100 monetary forfeitures:

- KMD7160, John Pitcher, New Milford, N. J. (using station as a hobby or diversion, transmitting messages relating to technical performance of equipment).

- KMD3059, Thomas H. McPherson, River Edge, N. J. (using station as hobby or diversion).

- KKP0320, Emory E. Roush, St. Petersburg, Fla. (using station as hobby or diversion).

- KAA4078, Gardner's Radio & TV Co., Inc., Hyattsville, Md. (operating station with mobile repeater at unauthorized location).

- The following operator had a \$200 forfeiture reduced to \$50:

- KMP1981, Sandra E. Kirk, W. Palm Beach, Fla.

- The following operators had \$100 forfeitures reduced to \$25:

- KKM1716, Sarah A. Horne, Valdosta, Ga.

- 18Q0724, Lawrence Dube, Vallejo, Calif.

- KIG0104, Florencio Rita, Waianae, Hawaii

- KDC1728, Paul L. Dupree, Mendon, Mich.

KMP1143, Edward H. Ballard, Lake Park, Fla.

KMF2451, Samuel Short, Jr., Lutz, Fla.

• These operators had proceedings against them dismissed:

KLN7149, Lindell F. Morris, Holland, Mich. (licensee took corrective measures to preclude recurrence of violations and has settled his monetary imposed).

KNM5822, Francis G. Riggs, Detroit, Mich. (upon motion by Safety and Special Services Bureau).

14Q0795, William R. Stocker, Spokane, Wash. (same as KLN7149).

• These operators had their requests denied:

KKT0232, George R. Holliday, Jr., Houston, Tex. (his request for reconsideration of license revocation).

KL A5545, Norton E. Bunyan, San Jose, Calif. (same as KKT0232).

In other FCC actions, the Commission finally approved the use of the following frequencies for 1 watt use for the control of model aircraft: 72.08, 72.24, 72.40, 72.96, 75.64. It is necessary to have a Class C CB license in order to use these frequencies for model aircraft control.

Ham operator Nathan Gold of Brookline, Mass., petitioned the FCC for a change in the Amateur Radio Service rules which would establish a "super" Citizens Band on a portion of the 10 meter Ham band. Under Gold's plan, a 50 watt maximum would be established, and the only ones who would be permitted operation on the band would be licensed Ham operators and their families. Gold's plan also proposes that there be no inter-communication between different licensees, this in order to halt the new service from "degenerating" to the conditions on the 11 meter Class D Citizens Band. Few people in Washington take this petition seriously.

\$9

READER MAIL

Continued from page 6

Hammond organ technician and gets many calls to correct "O.I." caused by Hams and CB'ers.

Mrs. Charles Schoell, KKD6591
Massapequa Park, N. Y.

Dear Tom,

We have a Thomas transistor organ and can always hear our CB rig coming through it.

Mrs. Clifford Kresse, KHI1072
Bloomingdale, Mich.

Dear Tommy,

Fine business on "O.I.," but what about "G.I.?" That's CB interference on an electric guitar, and my neighbor has it. How can I get

the electric guitar to come through on the CB rig?

Jim Thompson, KMV2120
Ada, Okla.

SEND MORE OF THESE LETTERS

Dear Tom,

Just thought I'd let you know that I think you're doing a very good job on S9. Pay no attention to the crank mail you get. Just thought you'd like to know that there's at least one person (if no one else) who thinks that S9 is tops!

Sue Sage, KLO1076
Willard, Ohio

Gee whiz, thanks. Do you think that you could become interested in a 33 year old gentleman, thrown out of several fine colleges, a noted recipient of reader barbs?

\$9

SWL SHACK

Continued from page 75

ZB2AO, KJ6DA, FG7XL, and KX6BQ (what, no K2AES?). On SWBC he nabbed *Radio Lome*, Togo, 5047 kc/s at 1715 EST; *R-TV Dominicanas*, Dominican Republic, 9500 kc/s at 1730 EST; *Radio Bucharest*, Rumania, 6150/6190/9510/9590/11810/11490 kc/s at 2000 EST; *R. National Gabonaise*, Gabon, 6030 kc/s at 0203 EST.

Burrell Buffington, KID8628, Caryville, N. Y. sent in a report on DX stations heard on CB—and all overseas! Great—and most of them are real rarities. They include VP1JKR (Ch 22) in Brit. Honduras; REACT 3150 (Ch 22A) in Trinidad; D.O.S.A. 4 (Ch 1) in Jamaica; also Argentine stations 1A515, 2D263, 1F85; Brazilian 3BEX1, and Venezuelan 4YX408.

That's about "it" for this go-round. Next month we will present you with something really unique—a complete list of the communications stations operated by INTERPOL. This covers radio stations in most countries of the world, as (so far as we know) the list has never before been presented to the public.

\$9

ODDS 'N ENDS

Continued from page 47

This hit me quite hard recently when the *load* broke down on a dark road and the flashlight in the trunk had two dead batteries (they hadn't been checked in two years).

Hot tea, or a coffee break on a trip?—the convertor powers a regular coffeepot.

And for working on the CB gear—an absolute dream. No more hundred foot extension cords from the house. The inverter powers a soldering iron and a very small electric drill, not to mention the work light. (I repaired a broken transmission line from the CB antenna while being ferried across Lake Champlain.)

The MP-10 Inverter is available as a kit for

\$29.95 or wired for \$39.95. The kit goes together so easily and quickly it's not even worth a description—save ten bucks and build it yourself. The inverter can be mounted permanently on the firewall, providing two AC outlets inside the car, or you can attach two clip leads and just clip it to the battery terminals if you use the inverter to supply power for tools. Even if you don't need to power "family" equipment, it's worth the investment to have AC power when working on the car.

One hitch you have to keep in mind. The MP-10 does not provide sine-waveform, therefore, it cannot be used with transformer operated equipment (such as an AC only TV receiver) or synchronous motors (such as used in tape recorders). But for AC-DC gear such as light-duty drills, line operated small TV's and radios, coffeepots, etc., it's a dream.



KBG4303 RIDES AGAIN

Continued from page 9

must be prepared by a registered or licensed engineer or surveyor.

O.K., we said that this would be "under certain circumstances." But what are they? Well, if Ham antenna is more than 200 feet above ground (even atop an apartment house) it would be affected. Don't live in such a place? How about 7½ miles from an aircraft landing area? Would you believe that within in this radius, the operator will have to go through the map routine with an antenna more than 20 feet above ground (or existing structure). You get the idea, Charlie.

These days there are few places more than 7½ miles from some sort of landing area, and have you ever estimated the cost of getting one of the topographic surveys done? Union Pacific Railroad estimates that of the applications they filed for VHF radio stations last year alone (a total of 252 transmitters) would cost between \$1000 and \$3500 per location (with some running as high as \$5000). One reason for the high expense is that the sites must be indicated to the nearest geographic second!

Forgetting Union Pacific for the moment, the cost to the average radio user would be considerably higher than one would want to spend for such a project.

You're undoubtedly saying to yourself that "This is the Great Society, things like this must have some logical reasoning behind them." And so they do, although the degree of logic is somewhat more than many people can agree with.

The Federal Aviation Agency (FAA) has become alarmed at the increasing number of private aircraft which are banging into man-made structures. "Aha!" someone said. "Let's

crack down on these structures which are getting in the way of private aircraft." Wonderful, but what are you going to do, take away the licenses of apartment houses? No, apartment houses don't quite seem to fit in. "What about those guys with all the antennas? Yeah! Get 'em—those guys are knocking down our planes!"

And so the FAA pounded upon the door of the FCC and presented their argument. Yes, it was a fact that in those radio services which now require a topographic map to be submitted with the application, there was a 10% error in the maps. And what about those stations which haven't had to register their exact locations? Gads—the FCC was a party to crashing! Something would have to be done to rectify the situation. Docket 16474, and how's them apples?

And how would such regulations, if put into law, be enforced? First of all, the antennas already in operation would apparently not be affected—guess that their alleged potential danger to aircraft will not count. It will be a case of new applicant spending the money for the survey or changing it on getting caught. Our guess is that many operators in radio services operated by individuals and small businesses will take a chance on getting caught, thus adding to the "hazard" of "bootleg" antennas.

Since the law applies to applicants for FCC licenses, TV receiving antennas would not be affected. Therefore, in the instance of two antennas on a 250 foot apartment house—one a TV antenna on a 30 foot mast, the other a Ham antenna on a similar tower, but 10 feet lower, the transmitting antenna is the navigation hazard and the operator must pay through the nose to survey and register it. The televiewer can watch Batman without bothering himself about Docket 16474, unconcerned about the fact that his antenna is a hazard to aircraft. And the CB'er in the building will monitor channel 9 without concern.

You say that an airplane flying 280 feet above ground while still 8 miles from an airport just doesn't happen? Apparently it does, because that's the way the law is written. Presumably the pilot flying in such conditions will call the control tower and ask for a list of the registered antennas in the area. Maybe, while he is skimming the rooftops, he can look through his charts.

Don't you wish you could meet the clown who inspired this? Perhaps next year he will toughen up the pilot requirements so that those who are prone to bang into transmitting antennae will not be permitted to fly.

Or maybe next year CB stations will be included.



CB SHOP

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

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

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

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

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

GENERATOR NOISE FILTER. Eliminates car generator whine, \$2.50. Also Voltage Regulator Filter, \$2.50. Highest quality. Engineered Products Company, Springboro, Ohio.

HUNDRED QSL'S, \$1.00. Samples, dime. Holland, R. 3, Box 649, Duluth, Minn. 55803.

CB, SWL, QSL, WPE cards \$7.50 a 1000! Free samples. ABCD Printing, P.O. Box 658, Edgewater Branch, Cleveland, Ohio.

S9 Magazine collection for sale. April '63 to May '66. Make offer on lot or write for individual prices. Stamp appreciated. Perry Knight, 117 I S.E., Miami, Oklahoma.

CONVERTERS, PREAMPLIFIERS, COMPRESSORS! Improve sensitivity, greater range, free literature. Whiteoak Electronics, Box 1661, Hyattsville, Maryland 20788.

QSL SWAPPERS: Obtain cards from CB'ers across the nation—unlimited exchange free to members—Charter Memberships available \$1.50 per year. CB Card Exchange Club, Box 8546, Kansas City, Missouri 64114.

QSL's—BROWNIE W3CJI-311 Lehigh, Allentown, Pa. Samples 10¢ with catalog 25¢.

QSL's, CB, WPE. Samples 10¢. N & S Print., P.O. Box 11184, Phoenix, Ariz.

CB'ers want to trade that old rig in on that new 23 channel job? Local dealers can't give you enough, write **ROYAL-T SALES CO.**, P.O. BOX 491, BUENA VISTA STATION, MIAMI, FLORIDA. We will give you top trade value on your used CB. Specify your make, model, condition and what you want to trade for. All inquiries answered same day received.

FOR SALE: Pearce Simpson Director full transmitter—23 channels. Mobile use only—2 months old. A-1 condition—bargain price \$195.00. **REASON FOR SELLING:** No future use for extra mobile unit. David Putnam, Route 1, Taylor, Missouri.

Watch for next month's **GIANT** issue

Silence IS Golden

(In Mobile Installations)

Only the Squires-Sanders Noise Silencer eliminates noise caused by ignition, power lines, etc. Only two transceivers have this exclusive feature—the Squires-Sanders "23'er" with full 23-channel capability (all crystals supplied) at \$235 and the "S5S" 5-channel model at \$185. Other features include an ultra-sensitive receiver and a powerful, long-range transmitter (special high efficiency RF output amplifier clipped and filtered audio, 100% modulation). 12 VDC power supply. Squires-Sanders Inc., Millington, N. J. 07946.



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160 meters	160	1.8-2.0 mc	1500 kc	\$19.95 ppd
75 meters	75	3.8-4.0 mc	800 kc	\$19.95 ppd
CB-10 M	273	26.9-30 mc	1500 kc	\$29.95 ppd
6 meters	504	49.5-54.5 mc	1500 kc	\$29.95 ppd
2 meters	1450	144-150 mc	1500 kc	\$29.95 ppd
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MINIATURE LICENSE PLATE. Your call sign embossed in raised letters on 7" x 2 1/2" weather-proof plate. \$1.00 postpaid. RGN, Box 145T, Yale, Michigan.

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

QSL Cards—Full Color, Glossy Stock. Free Samples. F. B. Mathews, 1616 Rural Street, Rockford, Illinois 61107.

CB DEALERS ONLY—The 1966 edition of the dealer's most profitable friend, "THE LIFE-LINE COMMUNICATIONS EQUIPMENT CATALOG," number CB-4-N, of connectors, test equipment, tools, and accessory items is now available. For your copy, including a complete direct-to-the-dealers price list, write: LOGAN RADIO COMMUNICATION SUPPLY COMPANY, 2110 Avenue J, Lubbock, Texas 79405.

QSL's—Smart CB'ers buy their QSL cards from the CBC Wholesale Club. Box 631, Lexington, N. C. See half page Advertisement on Page 76.

CB DEALERS!—If you haven't got it—you can't sell it. Why send your business somewhere else? Here at Graham Radio, we have thousands of CB and amateur radio units and accessories at dealer wholesale prices, and available for immediate shipping. Write for our latest dealer catalog. Graham Radio Inc., Dept. S, Reading, Mass. 01867. Tel. (617) 944-4000.

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

"ALTERNATOR NOISE FILTER" Original designers and manufacturers. Attenuates alternator noise by 50 db., \$2.95. Highest quality. Engineered Products Company, Springboro, Ohio.

1000 two-color QLS's—\$12.95 glossy white stock. Catalog—Samples free. KCJ1955, L. Guill, Rustburg, Va. 24588.

Crystals Guaranteed any channel—most sets \$1.99 ea. \$3.80 pr. cash with order shipped postpaid radios and accessories. Crystal King, Box 439, Big Rapids, Michigan. Dealers invited.

RECEIVE THROUGH NOISE! New B & B Electronics Static Reducer makes any non-DC grounded mobile or base antenna reception better through DC grounding. Increase your receiving range by quieting interfering static. Simple installation instructions included. Low price of \$1.59 postpaid. B & B Electronics, Box 62, Lincoln, Nebraska.

WANTED: Antique radios, early 30's and before. Will buy or offer CB gear in exchange. What have you got kicking around the attic, what kind of condition is it in, what do you want for it? No haggling, state lowest price or deal first letter. Box BJS, % S9 Magazine, 14 Vandeventer Ave., Port Washington, N. Y. 11050.

ANTENNA BARGAIN! A high performance, complete, full size, four element beam for only \$15! You get a 10' steel boom; rugged mount; four 7/8" and 1" aluminum elements; all hardware and fittings; full easy instructions. This beam amplifies signals by 8.6; it gives 1,000 square miles coverage. At your dealer or remit \$15, shipped express collect. Gotham, 1805 Purdy, Miami Beach, Florida 33139.

SELLING OUT: Hallicrafters CB-12 and Polycomm SR23, excellent condition. Other goodies. Write for list. William Ferbrache, 200 Willow Lane, Apt. 117, Willow Springs, Illinois.

WRITE: K-S—800 South Main, Salinas, Calif.

Some areas of Ariz., Ark., La., Nev., N.M., Tenn., Tex., are now open for exclusive dealerships on the well established line of international "EXECUTIVE" CB equipment, including the new trunk—mount units with small control heads. Established sales co's as well as sincere newcomers should write for information. Logan Radio Comm. Supply, 2110 Avenue J, Lubbock, Texas 79405.

ATTENTION OLD TIMERS—Have copies of RADEX (Radio Index) Magazine floating around the attic? How much do you want for them? Which ones do you have? All replies answered. Tom Kneitel, % S9 Magazine.

Wanted GOLDKIT thriller transceiver, Box 210, Wilmington, N. C.

LOW PASS FILTER. Stop or reduce TVI radiated from your CB transmitter. Equipped with So-239 connectors. \$4.95. Highest quality. Engineered Products Company, Springboro, Ohio.

TELEPHONE Recorder-Actuator (TWI-007) automatically turns tape recorder/amplifier/CB rig on when telephone in use. Connected anywhere on line. Solid state module. Simple installation instructions. Prepaid \$19.95. Twilight Electronics, Box 11595, St. Louis, Missouri 63105.

PICTURE of yourself, home, equipment, etc. on QSL cards made from your photograph. 250—\$7.50 or 1000—\$14.00 postpaid. Samples free. Write Picture Cards, 129 Copeland, La Crosse, Wis.

HEY PUSSY CATS! Want a sneaky way to build up your card swappers collection? We will ship you 25 different cards for only \$1. No printers samples or junk, but REAL CB QSL's from all over, some actually signed by the ops. S. Nussbaum, 1440 50th St., Brooklyn, N. Y. 11219.

VOX-operate your transmitter by voice. (1) printed circuit board/components. Requires only tubes/relay. Brand new. \$14. Richard M. Jacobs, 1015 Glenside Pl., University, Mo. 63130.

CB SCHTICKERS, those far out zany CB mottos on gummed stock, are available for 50¢ for a sheet of 30 (27 different). Three sheets for \$1. They're the most for QSL cards, mobile unit windows, the rig, the wall of the CB shack, letters, etc. Paste them all over cousin Emma's fern. S. Nussbaum, 1440 50th Street, Brooklyn, N. Y. 11219.

BREAKTHROUGH...

TRUE SINGLE SIDEBAND for CB... Go SSB on 27mc Citizens Band. Talk right through Skip and Noise Interference with this NEW SSB TRANSCEIVER.



SSBCO

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Model

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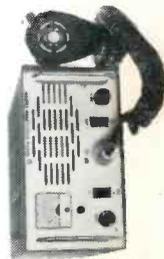
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