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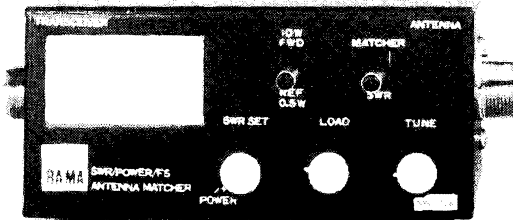
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Vultures on the Side PC 344 calls for help



The Amateurs at the Birmingham Rally

Contents

Introduction	2
The National Committee	3
The Birmingham Carnival	4
Club Spot	6
900 MHz - The known and the unanswered	8
Vultures on the Side	10
Antennas and Transmission on CB	
Frequencies	14
THAMES - an emergency monitoring service	18
The Happenings	22
Open Channel Petition	26
Readers Write	29
The Law and You	32
Come Back the Breaker	34
DX QSL International Club Spot	38

Advertisers Index

Atherstone CB & Truck Stop	24
Autospa	5
Big Ears	11
Bridair Audio Promotions	36
Breakerway C.B. Centre	26
Car Spares (Finchley)	5
C.B. City	5
C.B. Equipment Specialists	Centre Pages
CBers "20"	13
CB Shack	39
CB Specialists	13
Chelsea CB Centre	19
Citizens' Band Radio Centre Ltd.	17 & 33
Comm. IV	37
Custom Equip	Inside Rear Cover
Delta Electronics	9
Display Signs	39
Formula One	18
Georgia Bulldog	17
Globe Communications Limited	37
Lorhar Albrecht	Inside Rear Cover
Middlesex House	16
Mura Electronics (U.K.) Ltd.	Front Cover, Inside Front Cover & 7
O.C.T.	31
The Print Shop	39
Rolling Stock	23
Royal Oak	16
S & H C.B. Specialists	33
Sound Around	Inside Rear Cover
S.S.E.	35
Supa Accessories	26
Ten Four Telecomm. Ltd.	37
V.H.S.	34
Wintjoy	Rear Cover & 25
Z.L.	35

CB RADIO MAGAZINE 158c HIGH STREET YIEWSLEY MIDDLESEX

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What's this CB then?

CB stands for Citizen's Band Radio, a public two way radio system.

Citizen's Band Radio started in the States in the late fifties and has grown into a hobby in its own right. With a CB fitted in your car you could talk to other motorists, that is other motorists that also have a CB radio fitted. However you can't do that here in Britain. Why?

You may well ask. Here in dear old Blighty CB is illegal and has been since the late sixties. However although it is illegal many honest citizens now break the law by transmitting on the frequency which is outlawed, namely 27 megahertz. This frequency is known world wide as the CB frequency.

Recently the subject has become more controversial, in the last few months the Government have been pressurized more and more to make a decision on CB. A Discussion Document was published in August in order to allow the public to submit their views, this document is still current and until it is answered and relevant conclusions drawn, the situation remains unchanged. Namely illegal.

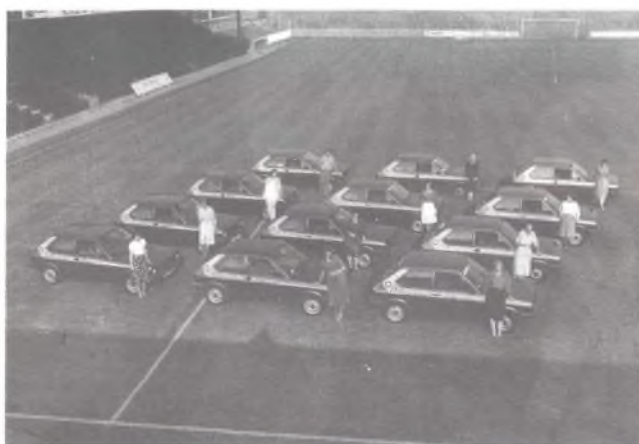
Hello readers, now our regulars will know that by tradition, all five issues of it, this intro is normally light-hearted, grammatically incorrect and we hope, sometimes humorous. Perhaps the introduction you have just read was too profound considering that a good description of our intro would normally be waffle, padding or dribble.

The reason for the intro is simple, we're trying to act intelligently for you the reader who has just spotted this mag on his newsagents shelf and wonders what the heck CB stands for. Not that we expect you to have read this far, by now the average browser in the newsagents will have put us down and be reaching for the top shelf. Not wishing to let on that the picture books up there are the real reason he walked into the shop.

Newsagents, there it is again, I said I would find a new word for you didn't I? But hold up what's all this talk of newsagents. If you live in the South then our mag is filtering onto a few, not all newsagents shelves. If by any chance you are a newsagent, that word again, anyhow if you are a newsagent this magazine is being distributed by Golddigger Promotions Limited and you will find their phone number on page one. Plug, plug.

If you don't live in the South stick with it we're doing our best, actually you may find us sat at the local transport cafe or motorway services alongside your copy of Truck. Who knows, if we sell okay Golddigger may even start saturating the North with copies of this rag.

Actually saturate is probably the wrong word, being The British Breakers Mag we had better creep up on the authorities slowly. You can bet your bottom dollar that we're not very popular with them at the moment, I mean page 33 last month must have sent a few tempers flaring somewhere in the dark corridors within our bureaucracy. I can almost see little men in grey suits jumping up and down, pulling their hair out. In case you can't remember, page 33 was a full page advert for 10,000 Vice President Roy 40 Channel transceivers.



Still we're attempting to get about more, the only problem with sitting on all the shops shelves is that we would have to follow all the other mags and raise our cover price to 60 pence, "Otherwise zere is no money fo zhe distributors Oliver my boy". You know the saying, "You've got to pick a pocket or two!" Funniest thing is it's our pockets we're picking at the moment.

Anyhow before depression sets in, there's four more pages for you this month so how about scratching our back and helping CB. Fill in the questionnaire on page 27, where else would we put it?

This damned silly Discussion Document needs answering, so come on breakers and public alike fill in our survey. The results so far look promising, let's be able to pass on a really comprehensive and bulky petition to the Home Office. So come on folks go photostat it and get your friends and family to fill it in.

ED

The National Committee

The NCFL have a re-shuffle.

A meeting of the National Committee for the Legalisation of C.B. Radio was held in South London on Sunday 21st September. Delegates were invited from many C.B. clubs and it was gratifying to see those who had travelled considerable distances from Northern England and Ireland. The committee were eager to emphasize that delegates from any established club would be most welcome to attend the committee meetings or the Technical and Industrial Sub-committee.

An agenda was circulated but was rather neglected as later events dominated the meeting. This was further complicated by the minutes of the previous meeting being unavailable for discussion and approval. It is to be hoped this omission will be rectified in the future.

The treasurer presented a brief report on the committee's financial situation and because some dissatisfaction was expressed undertook to provide detailed accounts for the next meeting. There was also some brief discussion on donations to the committee.

Mr. Yards position as chairman of the meeting was challenged as he had expressed his intention to retire from the chair directly after the Trafalgar Square rally. The Election of New Officers item of the agenda was brought forward and considered. Mr. Yard read a statement he had prepared in which he traced the background of the N.C.L.C.B.R. and his own position. He suggested the committee should carefully consider the direction and priorities of its campaign. After Mr. Yards formal resignation nominations and votes were

taken for his replacement. Mr. Richard Town was elected Chairman and extended thanks and the committee's gratitude to Mr. Yard for his contribution and efforts to the movement. At the chairmans suggestion Mr. Yard was elected honorary Vice President and retained a vote.

The chairman outlined his attitudes to his new position and pledged his support for the aims of the committee. He emphasized that all opinions put forward by delegates and committee members regarding policy and selection of frequency would have fair consideration. However because of some personality and policy conflicts members from U.K.C.C.B., Don Valley C.B. Club and C.B.R.A.G. felt they would prefer to withdraw and did so. This resulted in Mr. Bernie Murray resigning as secretary, Mr. Keith Townsend and Mr. Ian Leslie agreeing to act as temporary secretaries.

The location and time of subsequent meetings was discussed and delegates were invited to submit suggestions on this to Ian Leslie.

There was also some consideration of the Government's discussion document which resulted in most delegates feeling that 928MHz was unsuitable and technical specifications for other preferred frequencies would be prepared by the Technical and Industrial Sub-committee.

It was disappointing to see the lack of unity and trust on the committee and it is to be hoped the next meeting is more fruitful.

SUZIE Q



The British Breakers Mag.

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The Birmingham Carnival

Once again the Midlands are proving their interest in CB.

Normally money would be changing hands at a rapid rate as punters placed their bets, backing this or that greyhound. On this day the green backs were still changing hands, not quite so rapidly, but then again placing a bet is somewhat different to purchasing a Starduster or a K 40.

The M.C.B.R.C. (Midlands Citizens Band Radio Club) had arranged what they were calling The 1980 Birmingham Radio Rally. In case you haven't guessed the venue was a Stadium. The club claims members in excess of 800 and reputedly almost all of them turn up at their weekly meet.

I must say that things were well organised, once we walked in the door we were told what was due to happen and where. In the cafe area there were various stalls selling what has now become termed as CB soft ware. The bar was supposed to be open for those requiring alcoholic refreshment, however there had been a mix up somewhere and the bar staff had not arrived. This was a shame as I'm sure many of the visitors would have stayed longer with the good excuse of watching the show from the luxury of the bar.

The show consisted of a display by Radio Amateurs, Raynet Amateurs, Custom Cars and Wild West Show. The latter had nothing to do with CB and was presumably to keep the children amused although it turned out to be keeping more adults interested, not to mention those actually taking part.

As always it was more of an Amateur Radio day, CB by its illegality is impracticable to show off, where as the licenced Amateurs can strut around quite happily. In fact the organisers were mostly carrying two meter equipment and used this to good effect. Although there were a few Cbers somewhere strutting around using 27 MHz and for this reason the Airo Modellers refused to fly their craft on the promised display.

They blamed the weather conditions not wishing to cause trouble.



G6 VSK Peter Watts using 2 meters to organise the CB Rally



Truthfully it was a well organised and extravagant venture supported mainly by their own members. Any profits were to be donated to charity, however I doubt that there would be much if any profit. Once more the average Cber proved his apathy for anything other than using his set. This apart the M.C.B.R.C. must take a pat on the back for being adventurous and proving their capability to get out and do something. Undaunted by the less than expected turnout they are in the process of arranging another one for March. Hopefully they will have confirmed the date a couple of months in advance, then we can help publicize the event.

JOH



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Club Spot

Worcester 19 Breakers Club

We meet every Thursday night about 8.30 at a local pub. I won't give the name in case an unscrupulous Buzby gets hold of the mag and does a fantastic bust. We have a membership of about 90 members which grows each week and I suppose for a "little city" we are doing quite well. From our initial entrance fee of £2.50 the club is busy finding a solicitor who is biased towards CB and also provides a sort of insurance for rigs when someone gets busted. As can be seen from the name of our club we break on channel 19.

We held a successful disco and buffet and the landlord of our watering hole (who is also a breaker) donated the room etc.

In closing may I say a word of thanks to our committee, they are doing a really great job. I will keep writing with further events and demos.

All the golden numbers, 10.10.

THE SOURCERER

West London Breakers Club

The West London Breakers have moved again. Hooray we hear you shout. We managed to outgrow the hall we were at and have now taken over 'The Greenford Hotel' on the corner by the 'Iron Bridge' Hanwell. The club is now growing so fast that the joke 'When do we take over Hammersmith Palais' may soon become a reality. Instead we have now settled for taking over 'Barbarellas Disco' as a total CBers only night.

The meeting is every Tuesday from around 8.00 onwards, the disco is for those who are energetic. While us older breakers prop up the front bar, read this mag, down a few pints and strain our ears to hear if we have just won the raffle.

It may seem like fun and games but we're kept pretty well informed, the latest info has to try pretty hard to side step our committee. Like most clubs we have had our fair share of press coverage and we're fighting for legalisation along with the rest.

So if you're a CBer or just an interested member of the public, why not come down and meet the club one Tuesday, just ask for Vulcan, American Boy or Suzi Q or if you prefer that in Queens English, Bob, Miles or Sue.

Hope to see you one evening, regards to you and yours.

VULCAN
Chairman, WLBC

The Southampton Citizens Band Operators Club

We enjoy free communication between ourselves and arrange social events to further this communication. We believe there are approximately 200 citizens band operators within the confines of the Southampton area. Indeed our club membership is growing to this number even now. We wish to have a legal CB on an acceptable frequency without fear of prosecution.

Obviously we would prefer British made rigs with the reliability and spares back-up that one would hope from a home made system and we are not adverse to paying a reasonable licence fee for this. The system

that has been adopted in America, Australia, and most European countries, has proved most efficient for the purpose of Open Channel, and we see no reason why it should not be adopted in this country.

We do appreciate that bad publicity has been laid on the doorstep of citizens band radio, but in most cases this has been proven to be grossly inaccurate.

Having now established that citizens band radio is beneficial to most members of the community, we feel it should be within the price range of most members of the community. Thus expensive equipment, handling obscure frequencies, will not be the answer. And our club has rejected 928 as just that.

If anyone wishes to come to our meet just give us a shout on channel, 10.10.

J. BAILEY

The Grampian Breakers Club

We are the first of this kind in the North East of Scotland and we are looking for as much publicity as possible to let our good-buddies up here know that we are in existence. Our meetings take place once a fortnight and if any breaker wishes to findy out any more they can write to me at: 59 Jasmine Terrace, Aberdeen, Scotland. All the numbers, 10-10.

R.T. STRACHAN, Sec.

G.C.B.C.

The name is the Glasgow CB club, (G.C.B.C.) and our meetings are held at "The Three Pigeons" Charing Cross, Glasgow at 7.30 p.m. Visitors are most welcome and if anybody is in Glasgow and wishes to attend please call 041-631-2239 or 041-647-6923. We will try and arrange for people to be met or a lift if necessary. (H.G.V.)

Best regards.

IAN PATERSON
President G.C.B.C.

The Delta Echo Breakers

Just a line to let you know of the existence of the Delta Echo Breakers Club - we have almost 100 members full of enthusiasm. But we say no to 928 megs. We meet regularly, however I can't give the address so if anyone is interested please give a shout on channel 19 in the Cambridge area - someone will put you right.

Hope you can make the trip, see you at the meet.
10-10.

DELTA ECHO

Hart of England

There really is life north of Watford so breaker-break from all of us central England tribesmen at Hart of England C.B.

We meet every Wednesday at 8 p.m. at the "Cutalong" Pub, Bulkington Road, Bebbworth, Warks. (Junction 3 M.6 slab), where an exceedingly happy time is had by all. Visitors always welcome but come clean!

The club participates in all the usual activities pursued

by CBers, i.e. information to members, bust fund, social gatherings and beaver hunting!

We also produce our own club mag. and we are soon to organise our own mass demo.

10.10. good buddies, we gone.

Wessex Open Channel Club

This Club was formed on 3rd June 1980, and since then has been extremely active, although membership is only roughly about 30. We have a splendid meeting place (or H.Q.) at the White Hart, Ford, on the A.420 between Chippenham and Bristol.

We meet once a fortnight and since the beginning of June have organised a dance, a sale of teas, coffees, snacks etc. at Tiffany's in Bath, (the dance was held at Charlie Brown's, also in Bath) and have managed to raise over £940 for the Lin Oliver Fund. Lin Oliver is a lady who has cancer and we want to help to send her to the States for a possible cure with Interferon. We had a barbecue at the end of the month, and a showing of the REACT film "WHERE SECONDS COUNT" in September.

The Club is open to all who care to come and visit us - the more the merrier! For full details, please contact WOCC, 48 Holsom Close, Stockwood, Bristol BS14 8LX

JUDY READ
Secretary, WOCC

Clyde Coast Breakers

The club was formed on the 22nd August, and the membership is expected to exceed one hundred breakers at our next meeting. We have already approached our local M.P., David Lambie (Lab), who is very sympathetic with our cause, and is contacting the Strathclyde chief

of police on our behalf, due to some heavy buzby and bear activity in our area. There is a law peculiar to Scotland which states (loosely) that if a police officer *suspects* that an offence has been committed, he may seize any item or article as a production in the subsequent case, and he doesn't need to charge you with anything for up to six months. So, regardless of any vagueness there is south of the border, if you get stopped up here, you lose your chicken-box.

Wishing you all the high numbers till the next time.
3s and 8s.

2LO chairman

NCCBC

We have only been going for a few weeks, but are already on the move.

The North Cotswold C B Club is a fighting club, and we mean fighting, so you are going to hear a lot more about us. Our poor post man does not know what hit him, his bag is overflowing. Letters are going out all the time. (more profit for Buzby). let's hope they will do some good. So come on all other breakers do the same, it will be worth the effort.

Unfortunately we do not have a P.O. Box yet, as soon as we have I shall let you know, but if any one wants to come to a meeting give a break for me and I shall let you know the 20

Please let me say a big thanks to all our members for their hard work and support, we have done a lot in only a few weeks, so just give us a few months and we should really be in action.

Oh yes thanks also to our landlord for the room and the best ale in the Midlands, well must cut you loose and say 10 10.

Catch you on the side bands MICKEY MOUSE

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900MHz . . .

The known and the Unanswered

An article written by Richard G. Vincent, Vice-President of Firestik Antenna Company, Phoenix, Arizona for CB Radio Magazine in answer to the Governments Discussion Document.

The task of nailing down the human safety factor in RF energy fields generated in and at the 900MHz frequency ranges proves to be one of endless time. The further one progresses into this matter, it becomes more and more apparent that the actual danger to humans is far from being a known fact. This is not the first time that this problem has been noted. As a matter of fact, it has been found that some five-thousand writings (books and research papers, etc.) exist today that look at the dangers surrounding RF radiation. This writing may be looked upon as a research of research with direction towards 900+ MHz frequencies.

Absorption of RF

First off, it should be understood that RF radiation is present at all transmitting frequencies. We are exposed to these conditions every day of our lives. The question is at what frequency and power density level does this RF radiation become harmful to human tissue? Most of us can rationalize that to sit inside a microwave oven would be an act of suicide as it is quite obvious what would happen at those frequencies and power densities. But what about "near" microwave frequencies?

In order for any communications device that operates over the airwaves to function, it must radiate RF energy. The energy leaves as an electromagnetic field and in its outward travel is absorbed, scattered or reflected by objects within its field. The radiation emissions are also of the non-ionizing type which, unlike the ionizing form associated with uranium, plutonium and other permanently radioactive materials, only exist when a signal is being transmitted.

Due to the complexity involved in determining a human danger level, several researchers have attempted to conduct tests which would pinpoint potential danger. It should be noted that no actual tests have ever been performed on live human beings. At least, no one has stepped forward and taken credit or blame for such tests. There is, however, definition of the possible dangers that could occur. The first is tissue damage caused by heating and the second is a biological change that can occur in the human cell structure.

As earlier stated, RF radiation will be absorbed by certain material types and one of these material types is most definitely human tissue. In tests conducted by a major electronics firm, it has been proven that a human being within a RF radiation field becomes an integral part of electromagnetic energy emitted by a

transmitting device. In fact, during testing specific percentages of energy deposited in the operator were recorded. On handheld units under normal conditions, it is clear from all available data that the user absorbs 60% of the power output. More specifically, 50% is absorbed by the hand, arm and body with the remaining 10% being absorbed by the head and neck. The dangers associated with this absorption are most definitely determined by the frequency and power density at which it is delivered.

In nearly all of the tests conducted in the 900MHz frequency region, the output power of the transmitting device was approximately 6 watts. The power had to be held at that low level due to the lack of commercially-available test equipment. During the test a "phantom" model of an actual human skull covered with materials of the same dielectric* constant as human tissue was used. The test concluded that at a distance of two inches from the transmitting device, the thermal heat change was said to be below harmful levels. At the same time, close proximity to the transmitter antenna would cause possible severe RF burns to human tissue and, if it got close to the eye, it, too, would be burned. This brings to interest some aspects which would be the rule rather than the exception at 900MHz. *ability to insulate against electrical energy at a given voltage.

Eye Level Antenna

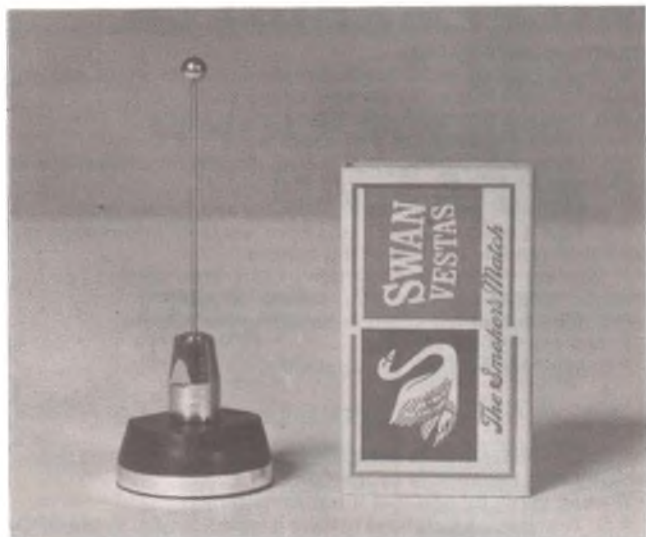
At 900 MHz the standard ¼ wave antenna would stand only 3.25 inches tall. In order to obtain even the most acceptable performance from such a small antenna on practically all mobile installations the antenna would have to be mounted on the roof of the vehicle. This would give the optimum performance but at the same time put the high concentration of electromagnetic radiation which occurs at the tip of the antenna practically at or near eye-level of most bystanders. This alone is very concerning but other more concerning facts are known to exist with regards to antennas.

Because of the popularity of helical antennas, tests were conducted to determine the changes which occur when different antenna types were used. In these tests, it was found that the helical wire-wound ¼ wave antenna emits an energy field that is three times greater than that of a standard ½ wave dipole. Because

of the ability to reduce the size of the antenna by using the helical design, it was noted that at a constant power the reduction of the antenna length by a factor of three, which in effect concentrates the power to the tune of three times, the magnetic charge "density" will increase nine times and the electrical energy will increase eighty to one-hundred times. With this increase, the danger in the far field becomes more important and bystanders are now within possible danger zones. As a matter of fact and regardless of antenna type, the United States Department of Labour through the provisions of the Occupational Safety and Health Act of 1970 recommends the following precautions: "Do not operate the transmitter when someone is outside the transmitter near unshielded electrical blasting caps or in an explosive atmosphere".

In addition to the above mentioned information, on mobile installations if the ground plane dimensions are larger in terms of wavelength (and they are at 900 MHz), the currents on the antennas have 1.4 times the amplitude of those on dipoles for the same power input. In relation to energy density, this calculates to an increase which is larger by a factor of 2.

All of the afore-mentioned information about field densities can be directly related to RF radiation absorption by human tissue. It should also be mentioned that there is a known medical procedure that is called diathermy. This process is used for deep thermal heating of human tissue and is described as having the ability to efficiently deposit energy deep into human tissue. The frequency commonly used for this process is 918 MHz.



Ten Watts is too high

Although it is possible to measure to some degree the thermal increases in human tissue, little or nothing is known about potential danger to the electrical make-up of human tissue. There have been reports of subtle and reversible neurological and psychological effects that have been written of in Eastern literature ("Biological Effects of Microwaves" written by S. Baranski and P. Czerski; Dowden, Hutchinson and Ross Publishers, Stroudsburg, PA. 1976). The symptoms observed in workers employed for years in environments with 0.1 to 5 mw/cm² RF and microwave levels include lethargy (unnatural sleepiness), headache, impotence, loss of libido (in psychology, the emotional craving behind all human impulse often used by Freud to denote the sex urge) and irritability. Although these are not easily pinpointed to one necessary source of cause, radiation effects have proven to increase by about 15% the efflux of calcium in the brains of experimental chickens and cats.

In summation, there appears to be enough evidence and belief at the scientific level which points to some real potential dangers created at radio frequencies above 450 MHz. Throughout the reports that were readily available, continuous warnings were given to transmitter operators such as, "keep away from children", "may cause severe RF burns", etc. etc. To arm millions of consumers with transmitters in the 450 MHz and up frequencies is not what I would call a move with the public's safety in mind.

I was privileged enough to speak with one of America's top authorities on the subject of RF radiation. In our discussion on 900 MHz, I brought up the question of power output at these high frequencies. I arbitrarily said 25 watts and after a several second pause was told, "There are potential dangers at 6 watts on the 900 MHz band, especially to the user, but for the sake of all bystanders I would not like to see any condition where an excess of 10 watts were in use". I believe him!

It should be noted that at frequencies of 30 MHz and lower, the radio is a relatively poor electromagnetic source and secondly, the radiation penetration is dissipated into human tissue at a very wide arc and also at a non-focusing angle. This along with effective penetration depth spreads the absorbed energy over a large mass of tissue which prevents localized temperature increases.

In closing, may I say that 900 MHz communications can be safe when kept under very tightly controlled and limited quantity regulations. There are enough questions with unknown answers to bring up one final and very important question . . . Is 900 MHz a safe CB frequency?



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Vultures on the Side



That well known figure in the CB world Big Ears is at it again.

Two months ago the police pulled in the Big Ears van and went through it with a fine tooth comb, they were of course looking for rigs. As is usually the case they neither knew what a rig looked like nor did they know their legal standpoint. Last month Terry himself was stopped by the boys in blue, perhaps it is one of the hazards of signwriting a vehicle with the wording, "Citizens Band". Once more the officers were acting more out of impulse than direct orders.

Terry (Big Ears) Newell is not one to be intimidated and certainly not one to make their lines easy when it comes to CB. Pictured below he wastes no time in informing the officer that he has no right to search the vehicle and that he had better come up with a search warrant.



Photo reproduced by kind courtesy of Hobby Electronics

This month! Well, Terry's young lady was pulled up by a police officer, she was not transmitting at the time. The officer had spotted the antenna and decided to investigate. Another breaker recognised the car and seeing the constable looking at the antenna put two and two together and phoned Terry.

He arrived within a few minutes armed with a camera and a portable tape recorder. The following is a direct transcript from that original tape.

I am not prepared to answer that

Time: 4.05, Terry arrives and turns on the recorder.

T. Good afternoon officer what appears to be the problem?

P.C. This vehicle is found in possession of what I am informed is a CB set, which I intend to detain. We are just waiting for the GPO to test it.

T. Under what power do you wish to detain the set?

P.C. Under the Customs and Excise Act.

T. Which part of the Act are you referring to?

P.C. I don't need to refer to any part of the act.

T. Yes you do, the Customs Act is very large.

P.C. I am just awaiting the arrival of the GPO first.

T. Do you know what part of the Act and by who's authority you intend to detain this piece of equipment? Are you attempting to detain the equipment, the person, or the car?

P.C. I am sorry I am not prepared to answer that question with the tape recorder going.

T. Well if you act by the book that shouldn't worry you. Are you detaining the vehicle, the person, or the set?

P.C. I am detaining the equipment.

T. In that case, on what grounds?

P.C. Under the suspicion that it is an illegally imported piece of equipment.

T. Under what section of the Customs and Excise Act?

P.C. I don't need to quote that. I have just been informed by my control to remain and detain the vehicle.

T. You are correct, but you don't know what section you are attempting to use to detain the vehicle do you?

P.C. I know that I am right in detaining the vehicle.

T. Not the vehicle actually.

P.C. Well the set then, my apologies.

Terry then reached into the car and moved the set to one side.

P.C. Can you leave the set in the vehicle. It is going to be tested whilst it is in the vehicle by the GPO.

T. I can verify for you that it transmits on 27.

P.C. That may be but I have to have it tested for you by the GPO, by a qualified examiner.

T. Tell me, do you have active actions to take on CB? Because unless you get a Customs and Excise Officer here you cannot take that set and he has got to give an official crown receipt.

P.C. I will get a Customs and Excise Officer down here then and he will give you a crown receipt.

The P.C. then moved over to his vehicle and called his control. Terry followed him over armed with his tape recorder still running. The P.C. then attempts to contact his superior.

T. Gets a little inconvenient doesn't it when we decide to follow the rules?

P.C. Oh I wouldn't say it's exactly following the rules, it's just a matter of getting someone that's in at the right time.

T. Are you going to arrest this lady and if so, on what charge?

P.C. I didn't say I was going to arrest her.

T. How are you going to detain her if you don't arrest her?

P.C. Keep her with the vehicle until a Customs and Excise Officer arrives.

T. But you have no power to detain. I will be very interested to know how you intend to detain her.



PC 344 'I am not prepared to answer'

The constable then called for an inspector to come again to Lee Street. Terry joked that he'd get a quicker response on C.B.

T. Okay then officer it is like this:

- 1) Are you going to detain this lady or not?
- 2) If you do intend to detain, under what power?

P.C. I am going to detain the set, nothing else.

T. But the set is in her possession and you cannot arrest the article without verifying the fact that it is an illegal import.

The P.C. was contacted by his control and informed that the inspector was unavailable and that Sergeant Bill Mackintosh was on his way. The tape continues as the sergeant arrives and a GPO employee has also arrived.

T. Afternoon Sergeant.

Sgt. Hurumph. (A Hornblower special for acknowledging)

T. The situation at present is that we are waiting for the GPO man, who hasn't even produced his ID card yet. We're waiting for him to produce a frequency counter to prove that this is a CB and that it transmits on 27MHz.

Sgt. Hurumph!

T. Then once that is proved we have then got to wait for a Customs and Excise Officer, because a Customs Officer is the only one capable of seizing the equipment, as the GPO employee does not actually have the power to seize the transceiver and neither do you.

Sgt. Well you seem to know everything, carry on. Don't test me on Customs and Excise otherwise I will seize every bloody thing. Anything a Customs and Excise Officer can seize so a Police Officer can seize.

T. Section 39, sub section 9, paragraph a, reads: "Any Police Officer or member of Her Majesty's Armed Forces, Coastguard or any officer of the Crown, may detain illegal contraband pending the arrival of a Custom's Officer.

Sgt. That is the same as seizing it in plain English. If you want to mince words carry on mincing.

The equipment required to test the transceiver, namely a frequency counter had not yet arrived and both sides were left standing around. Terry's lady (Foxy Lady) then asked:

FL. Sergeant if I am not under arrest can I go?

Sgt. Well you're with the vehicle and the vehicle is being detained with the radio until the equipment arrives to ascertain as to whether it is one of these, what is it? illegal sets, and whether or not it works.

FL. But if it is left with you then surely I don't have to stop with it.

Sgt. Well you're with the vehicle so you can wait until this necessary equipment arrives.

FL. But I am not under arrest?

Sgt. No you're not under arrest.

FL. So we can go and get a cup of tea whilst we wait.

Sgt. In that case we will issue parking tickets.

FL. Well do I have to move my vehicle then, even though it is being detained by you?

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Vultures on the Side

Sgt. Well put it like this, if you're not going to wait there will be tickets issued. If you are going to wait we won't bother issuing tickets. You know!

T. That's okay then be like that, issue tickets. It's only what? £18.00 just an expensive cup of tea, (raspberry).

You can probably guess the gesture that followed the raspberry. When they returned from the cafe the second GPO employee, (Mr. John Brigstock), had just arrived. Terry approached his vehicle, camera and recorder at the ready.

T. Do you have dispensation from the Home Office for this piece of equipment you have down here on the seat?

GPO. Ah, Oh dear a Hy Gain II.

T. Do you have dispensation for this illegal set you have here.

GPO. Ah.

T. Excuse me Sergeant, would you care to ask this gentleman if he has dispensation to run that rig that he has in his vehicle. If not, will you take the same action against him as you are against us?

Sgt. (No answer).

T. Go on ask him now, because I guarantee you that he hasn't.

Sgt. (No answer).

T. Do you or do you not have dispensation from the Home Office to run that rig?

GPO. Ask them.

T. You won't answer?

GPO. I am saying nothing.

T. You're saying the same as Ron Clarke when I asked him about running a CB in his vehicle.

GPO. I am saying nothing, if you want to find out if I have dispensation from the Home Office then you can ask them.

T. So you do have a CB set in your vehicle.

GPO. Yes.

T. Confiscated Crown Property or not?

GPO. If you want to know how I got that set ask the Home Office.

T. The Home Office do not give dispensation for GPO employees to run illegal 27MHz sets under any circumstances.

GPO. 'Er', I have no comment to make. But if you want to know about that set in there they may or may not tell you.

T. They will have to tell me won't they, because I now have photographs of it. I am sure that there is no dispensation to transmit. But I will give you 9 out of 10 for trying.

Sgt. I will give you 10 out of 10 for being a grade A one idiot.

The GPO employee has now got his equipment ready and wants to test the set. The sergeant has withdrawn to try and obtain the Customs permission to seize the set.

T. Under what power do you demand access to that set?

PC. We will get a Justice of the Peace to give us access to the vehicle.

T. We are not refusing you access, we are just asking you under what section and on who's authority do you wish to search and detain that equipment?

GPO. Well okay then as a friend would you like to give me access to your vehicle?

T. You're no bloody friend of mine mate. All we want to know is under what authority you want access.

GPO. Well look can we have access to the set to test it please, otherwise I will ask these gentlemen to take me to a Justice of the Peace and we will see about a search warrant under the Wireless Telegraphy Act.

T. Don't you mean the Customs and Excise Act, she was not caught transmitting. When and if you get your search warrant what are you going to do then?

GPO. Test the set.

Time now elapsed over three hours. Both Terry and his lady were absolutely fed up with the whole situation and it appeared this could go on all night.

Terry therefore felt that he had proved his point, not caring for the value of his set, more the principal, he handed over one Concorde International and a receipt was issued by PC 344.



Very poor quality taken on an instamatic through the window. But the clear shape of a Hy Gain II can be seen resting on the seat. The rig is covered by a clipboard and a jacket.



John Brigstock 'Let me in as a friend'

Epilogue

The point? Perhaps that is best left up to you the reader. One comment Terry made, the printable one, was that the Police do not know what they are doing or talking about when it comes to CB.

Whilst the police were attempting to take possession of the rig a friend had been monitoring the police transmissions and later informed Terry that the J.P. had refused to issue a search warrant and that the Customs and Excise were not prepared to be called out for just one set. This cannot be verified by us as the Customs have declined to comment.

However, as the confiscated rig has been returned, it would appear that the Customs had not given their consent for it to have been seized or detained as evidence.



Sgt. MacIntosh '10 out of 10 for being a grade A one idiot'. Note antenna on Van roof.

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Antennas and Transmission on CB Frequencies

by F.C. Judd, FISTC, MIOA, Assoc. IPRE.

This series of articles has been specially written for CB Radio Magazine by an internationally recognised antenna designer and acknowledged expert on radio wave propagation. The articles will take you from fundamentals to practical use and deal with all those problems likely to beset operators on any of the possible CB bands within the range 27MHz through to 900MHz plus.

Whether or not a frequency band or bands for CB (open channel) radio will have been decided upon and made legal or otherwise is of little consequence as far as transmitting antennas and radio-wave propagation are concerned. The fundamentals of both are constant and nothing can change them.

In any radio wave communication system the antenna could be regarded as the most important component. Without it, communication is impossible. Even an inefficient antenna will radiate. Unfortunately far too many spend a lot of money on transmitting/receiving equipment and then totally degrade the performance by using a cheap and inefficient antenna. A knowledge of antennas, how they work and how radio waves travel (propagation) is vital to all users of radio communication.

Radio Waves

A radio wave is a combination of electric and magnetic fields with the energy divided equally between the two. If the waves were originated at a point source in free space they would spread out in ever increasing spheres with the source at the centre and travel at the speed of light because light is also an electro-magnetic wave. In empty space this is 299,793,077 metres or 186.282 miles per second. These figures are usually given as 300,000,000 metres or 186,000 miles per second. A sphere growing outward from a central point becomes larger and larger and if an observer on the spherical surface could actually see the wave in his vicinity it would appear to be flat, as the surface of the earth appears to be flat rather than round.

A wave far enough from the source to have a flat formation is called a plane-wave and waves commonly used in radio communication always meet this condition, at least after they have travelled a short distance from the transmitting antenna.

A plane wave has two fields, one known as the electric or E field, the other being the magnetic or H field and which are at right angles to each other.

A wave originating from a localised source i.e. a transmitting antenna has what is called a *wave front* but because it is widely spread, the relatively small area of its surface occupied by a receiving antenna

could be regarded as perfectly flat. As the wave passes any fixed point the field strength varies periodically (at the frequency of transmission) from a maximum positive value and then through zero to a maximum negative value i.e. the signal varies sinusoidally.

Wavelength

A section of wave as illustrated in fig. 1 is one wavelength long and its field is repeated cyclically along its path. If the wavelength was one metre, then 300,000,000 complete oscillations would pass any given point in one second. As the velocity of radio waves is 300,000,000 metres per second and the wavelength one metre, then the frequency (f) can be determined from:-

$$f = \frac{v \text{ (velocity)}}{\text{(wavelength)}}$$

In this case it is 300,000,000Hz or 300MHz. An observer facing the wave would 'see' the field alternating at a frequency f. It is this alternating field that excites a receiving antenna and which picks up some of the radio wave.

Wave Propagation

Radio waves travel in different ways according to the frequency in use and the *polarisation* of the wave as it leaves the transmitting antenna. For example, vertically polarised waves at low frequencies from a vertical transmitting antenna travel close to the surface of the earth. This is commonly called groundwave propagation. The distance for reliable reception is limited because the wave gradually becomes absorbed by the surface over which it travels. At higher frequencies (shorter wavelengths) and with suitable transmitting antennas, radio waves can be made to travel upward at a relatively steep angle from the earth. They are then reflected to earth again at a distance point by a region of the earth's upper atmosphere called the ionised layer. This is known as *sky wave* propagation and as the frequency of transmission increases (wavelength becomes shorter) so greater and greater distance can be covered around the earth by a multiple reflection

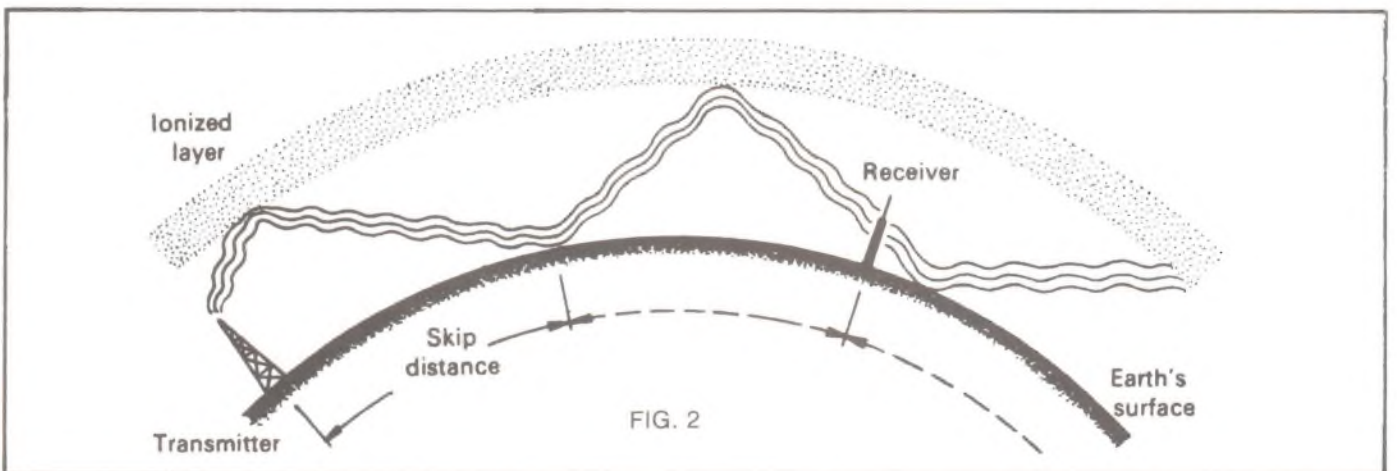
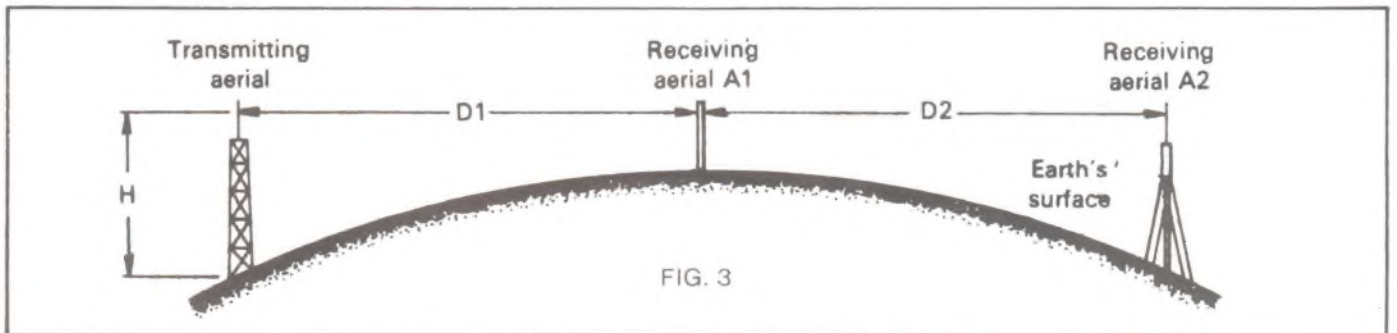
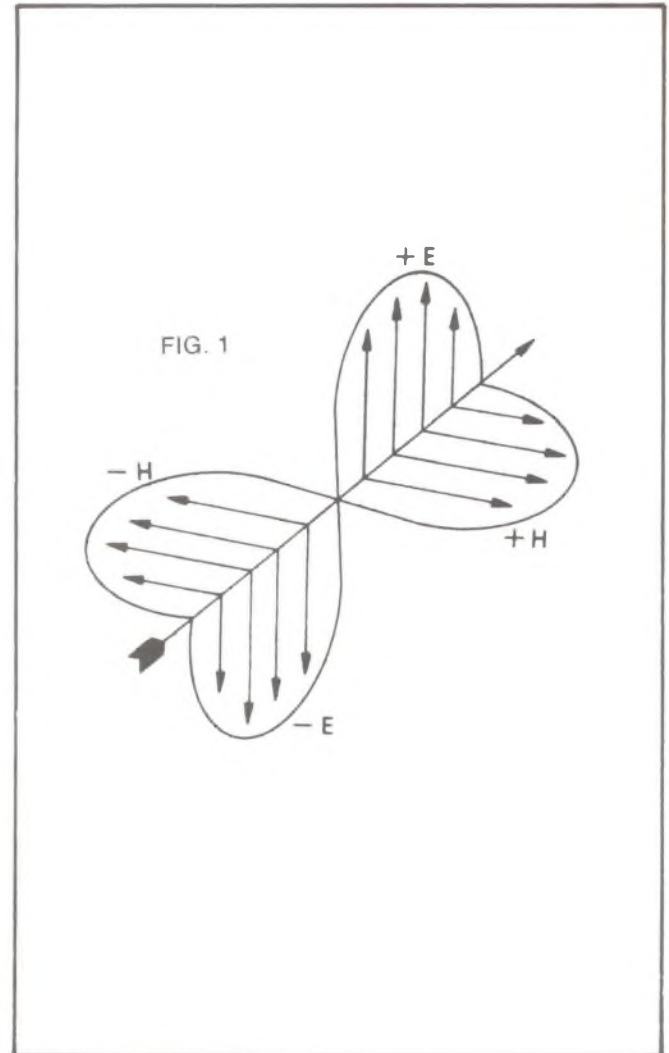
path between the ionised layer and earth as illustrated in fig. 2.

Thus the frequency of transmission and the antenna used at the transmitter can be chosen to provide a short range service (ground wave propagation) using long and medium wave bands (low frequencies) or long range service (sky-wave propagation) using short-waves (high frequencies).

There is a point however, when radio waves at high frequencies are no longer reflected by the ionised layer and this is when the frequency of transmission becomes very high (VHF) and wave propagation becomes what is often called *space-wave* which is really a line of sight transmission and means that the receiving antenna must more or less 'see' the transmitting antenna. This latter mode of propagation is one that will prevail for all CB operators using frequencies well above 27MHz e.g. between 200 and 900MHz, or higher, and providing there are no large obstacles such as hills and high buildings in the path the range can be to the horizon, or further, depending on the height of both the transmitting and receiving antenna. However, the structure of the atmosphere near the earth's surface is such that under normal conditions VHF/UHF waves are bent into a curved path which helps to increase the range a little. The effect is better understood by assuming that the waves travel in straight lines but that the earth's radius is increased in dimension by one third. On this assumption the distance from the transmitting antenna to a receiving antenna A1 at ground level on the horizon as in fig. 3 is given by:-

$$\text{Range (miles)} = 1.415 \times \sqrt{H \text{ (ft)}}$$

where H is the height of the transmitting antenna. This assumes that the earth is perfectly smooth and that there are no obstacles (hills etc.) in path of the radio wave. If communication at greater than horizon distance is required then the height of the receiving antenna must be increased as at A2 in fig. 3. The maximum 'line of sight' range is now D1 + D2.



Antennas and transmitters etc.

PROPAGATION AT VHF

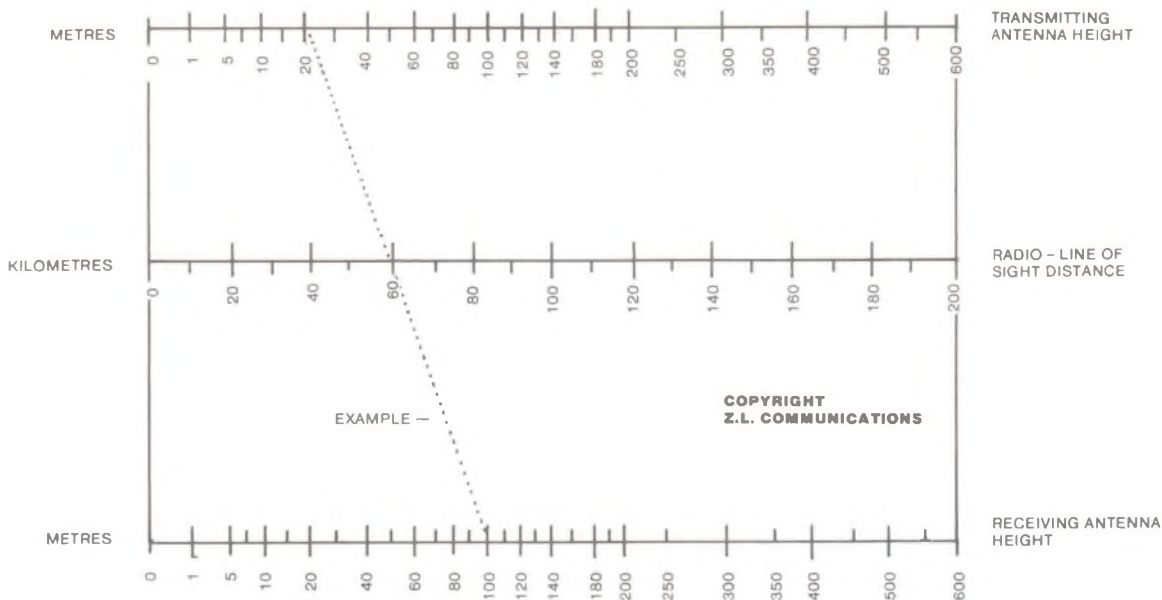
Conditions in the atmosphere at heights from a few thousand feet to a mile or so, are at times responsible for bending VHF radio waves downward. This is called *tropospheric refraction* and often allows VHF communication over greater distances than can be achieved with normal 'line of sight' propagation. However, the atmospheric conditions that provide tropospheric refraction seldom occur for any considerable period of time and the strength of received signals usually varies and fading occurs.

In some parts of the world, particularly in the tropics or over large areas of water, temperature inversions are present almost continuously at heights of a few hundred feet or less. The boundary of the inversion is usually defined enough so that waves travelling horizontally are 'trapped' by the refracting layer of air and continually bent back to earth. The air layer and the earth form the upper and lower walls of a duct in which the waves are guided and therefore follow the curvature

of the earth for distances far beyond the optical horizon sometimes for hundreds of miles. This form of propagation is known as *ducting*.

Tropospheric or 'lift' conditions regularly occur in the UK during warm weather and often prevail for days at a time at frequencies ranging from around 200MHz to well over 900MHz. It would seem both feasible and practical to have two frequency bands for CB with 27MHz for general coverage fixed and mobile operation and real long distance with suitable aerials to other countries like Australia, USA, Canada etc. The second band could be either of the proposed around 225, or 450 or 900MHz for local working or extended ranges for mobile using repeater stations. For instance one well sited repeater operating around 900MHz would give a county wide service to mobiles (also fixed stations of course). A two band allocation would reduce the enormous load likely on one frequency band only.

The next part of this article will deal with the fundamental and physical aspects of antennas for frequency bands ranging from 27MHz up to 900MHz and higher.



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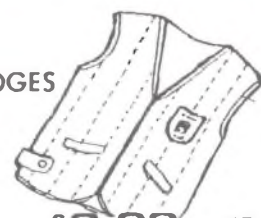
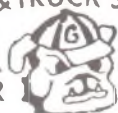
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THAMES —

Looks like the U.B.A. are going to be the first with an organised monitoring service.

A few months ago the United Breakers Association decided to set up monitoring stations on CB in the London area for emergency calls. They are simply called 'Thames Units' number 1-40. Thames stands for - Traffic Help and Monitoring Emergency Services. If you require any emergency services just call on channel 14 for a 10-33 and a Thames Unit will introduce itself and immediately summon any emergency service to your aid. When a call is received by Thames on 14 they will then ask the breaker to drop down to channel 09.

Until CB Radio is legalised in this country and a REACT operation organised, the U.B.A. will continue to save lives. Thames' operate their monitoring stations from Brixton, Wandsworth, Catford, Uxbridge, Biggin Hill, Clapham, Wimbledon, West Norwood, North London Peckham, Bromley, Dulwich and Essex. They are within a three mile circumference of each other and always in contact with another Thames Unit. Thames Units are growing and hope to be able to cover the U.K. with these units.

There are already numerous cases which the various units have dealt with, far too many to list. The majority of the calls for help are for Police, Fire or Ambulance

services. There have been cases in which the units have been able to assist in crime prevention, many people have been reprimanded by the Police for acting suspiciously near houses or cars so keep your eyes open. One CBER was waved down one night by an old lady who said she was locked out of her home, she had no neighbours to help so the CBER called for a Thames Unit who in turn called the Fire Brigade, who were able to assist her into her flat.

Anyone wishing to help this operation in any way should write to:

Mrs. Louise Briscoe, (secretary of the U.B.A.),
55b, Brook Drive,
Southwark,
London
SE11 4TU

or to:

Mr. Andy Donovan, (president of the U.B.A.),
50, Gaskel Street,
Clapham,
London,
SW4.



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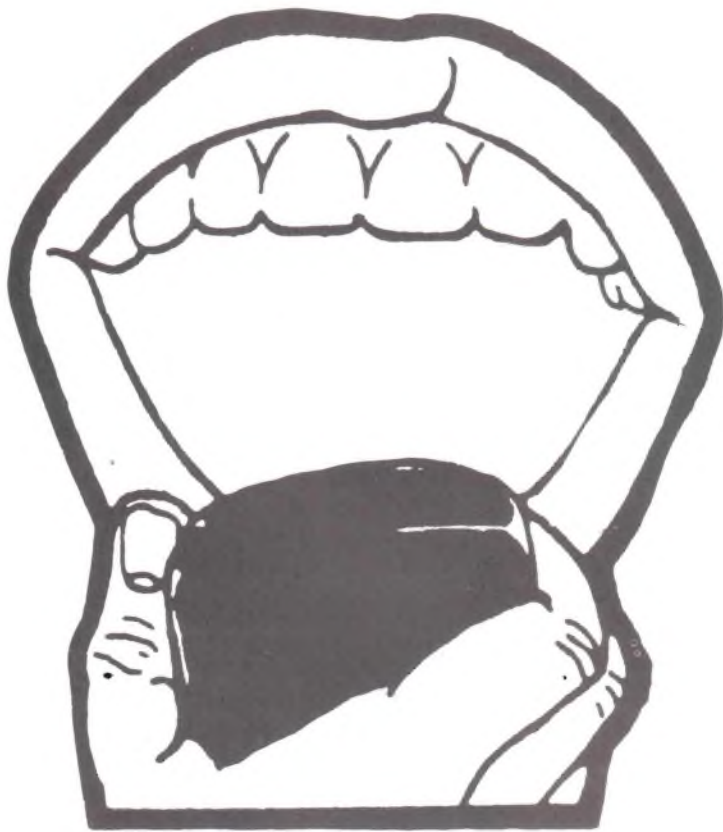
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The Happenings London UBA No. Four

Four down. How many more to go?

A bead of perspiration edged its way over the eyebrow and picked up speed as it rolled down towards the squinting eye. A gloved hand rose to wipe the offending droplet away, the heat rising from the engine was unbearable. The gloved hand returned to the throttle and twisted, the increase in speed brought with it a brief rush of cooling fresh air. But the heat soon returned in renewed waves as the machine slowed down and kept pace with the huge Union Jack that danced above the heads of the protesters, the lettering CB for UK was emblazened upon the patriotic flag.

Over four hundred CBers marched through London, banners waving, voices shouting. The date was Saturday the 27th of September, an appropriate date for a demonstration demanding 27MHz. Most were unaware of the discomfort that the Police motor cyclists faced. Actually to tell the truth so was I, it was only after talking to one officer about the demo that I realised the heat rising from an air cooled BMW driven at walking pace.

But back to the demo, there had not been that much advance publicity, it was a Saturday which for most is still a working day, yet the turn out was good, the best



to date. Figures vary, don't they always, Andy Donovan president of the UBA and organiser quoted over 600 as present. The police estimated 300 and candidly confessed that that was more than expected by them. Personally I would estimate a little over 400. The thing that never ceases to amaze me is that gathered at what has now become the regular starting place, the tea shop at Hyde Park corner, the numbers always look small and lost, yet assembled and actually under way the same amount of people suddenly stretch the length of Trafalgar Square.

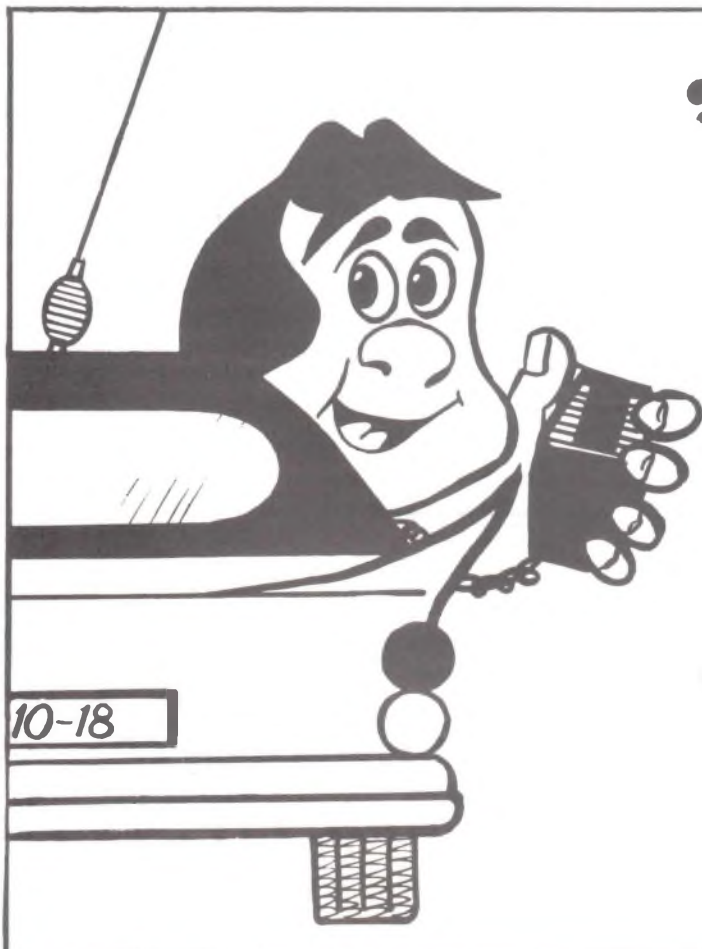
Either way a good turn out. BUT STILL NOT ENOUGH. Some of the locals from London should be ashamed of themselves, quite honestly there were more breakers from out of London. Which, when you consider that the



membership of some London clubs is in excess of 400, is quite inexcusable.

The march itself went off very well indeed. I enjoyed myself jumping on and off left signs in the excuse of getting the best shot. We even managed to have a McDonalds whilst waiting for the procession to catch us back up. (we cheated and drove). Mind you that in itself was not easy, we took the car down all the side roads we could find in order to get back ahead. Many a driver was cursing and arguing with his neighbour little knowing that a CB demo was why he was stuck in traffic. May I suggest that a couple of tail end Charlies could distribute leaflets to these embittered motorists next time.

continued...



10-18

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The Happenings

As the march passed, many of the by-standers commented, "What's CB?" "Oh it's that Capital Radio thing". There were a few "Waste of time if you ask me". But most just looked on, whilst the tourists clicked cameras. A few leaflets were handed out but it seemed to me to be a lot less than on other demo's, the only ones I can say I noticed were from the South Coast Breakers.

The chanting really began in earnest as the CBers entered Trafalgar Square, here there was a slight change in route, instead of rounding the square and heading for the Embankment, demo four carried straight on past Charing Cross and down the Strand.

Here the one and only anti-protester decided to wander in front of the red Escort that was leading the demo. Just before the front wing contacted with the abuse shouting drunk a Police Officer pulled him out of



the way. Abuse still being shouted he staggered into the head of the column and swore at Disco One (Andy Donovan), God only knows what he swore, it sounded unintelligible, he probably didn't even know what he said himself being in the proverbial condition, as a newt. Two officers removed him and the procession continued. The drunk lost interest and wandered off to pester a tourist or two.

From here on the march was straight forward, turning right crossing the Thames in sight of the Houses of Parliament and winding round the roundabout and into the road that leads past the Home Office.

Andy addressed the gathering thanking everyone for their support. He continued, saying this demo had been to express to the H.O. the need for an amnesty on 27 and that there would be many more demos' until that day came.

JOH



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If you're a club member or enthusiast, how about photostating it and getting every one you know to fill it in.

This will be handed in to the Government as an answer to that Discussion Document. So come on breakers and readers fill it in now and post it off to us.

This Discussion Document needs answering. The Government needs telling firmly that CBers exist and that they want CB.

REGARDLESS of what you personally think of this D.D. it needs a good response. IF this D.D. gets the same negative response as the GLC's Consultative Document, then you can forget a legal CB in the UK.

Possession of CB equipment will no doubt become illegal in the near future, it is on the cards that legislation will go through parliament to let the police have the power to stop and search for CB.

If the response to this D.D. is good then MP's that favour the introduction of CB will have something to fight with.

SO FILL IT IN AND POST IT TODAY.

JOH

CB. CB. CB.



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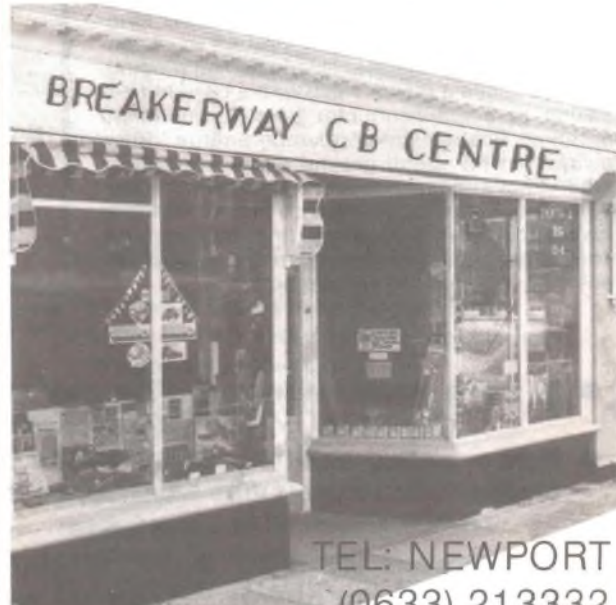
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- 2. 27 MHz AM As used by the greater majority of countries world wide.
- 3. 41 MHz to 47 MHz Presently used as the BBC 405 line Band 1 channel 1 Black and White TV transmissions. WARC re-allocated as Fixed and Mobile with reserves to shut down operation of present transmitters no later than 1987 UK and 1986 in France and Monaco.
- 4. 230 MHz Last used in 1958 as a Military frequency for Lancaster Bombers.
- 5. 450 MHz Mentioned in the Discussion Document. At present Public Mobile Radio operates near here on 445 MHz to 446 MHz, used by Companies mainly as mobile to base, mobile to mobile can also be used.
- 6. 928 MHz As preferred by the Government for British OC

My first preference would be No. and secondly No. I think CB should be legalised.

My main considerations in using OC would be: DELETE OR FILL IN AS REQUIRED

- a) Price of Equipment. A fair price I would pay is not in excess of £
- b) Range of Equipment. I would expect a mobile range of at least miles.

My name is I declare the above to be my views and no one elses. This is my genuine name and I wish you to record my views when considering the results of your Discussion Document on Open Channel.

Signed Date

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Signed Date

CUT ALONG DOTTED LINE

FOLD ON LINES ONE, TWO, THREE AND FOUR TO MAKE AN ENVELOPE AND TUCK FLAP 'A' INSIDE POCKET 'B'.

FLAP 'A' TUCK INSIDE 'B' TO SEAL ENVELOPE



FOLD

FOLD

FOLD FOUR

PLACE
STAMP
HERE

FOLD TWO

FOLD ONE

**CB RADIO MAGAZINE
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FOLD THREE

FOLD

FOLD

OPEN POCKET 'B'

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Readers Write

Dear Editor,

I attended the recent meeting of the National Committee for the Legalisation of C.B. Radio as a delegate from our local club. It was my first meeting and as such may not have been typical but I was appalled by the behaviour of several of the committee members and the lack of results from the discussions. The meeting was dominated by political manoeuvring, back-stabbing, ego tripping and petty procedural squabbling which was timewasting and insulting to the delegates (some of whom had travelled a considerable distance).

How on earth can the C.B. lobby show the Government and media a responsible and united front when our National Committee behave in this fashion? If we are relying on the N.C.L.C.B.R. to get C.B. legalised God help us – we will still be waiting in 1990.

The National Committee has the potential with the undoubted enthusiasm and concern of its members, to achieve its (and our) aims, but whilst it loses its direction in a sea of swapped insults and bruised egos it only makes itself (and us) look ridiculous. I left thoroughly disappointed and unsure whether to attend again and only hope that in the near future N.C.L.C.B.R. will decide its priorities, forget its past clashes and fight TOGETHER for a legal, realistic C.B. system.

Yours faithfully,
SUZIE Q

Secretary, West London Breakers Club

Dear JOH,

Now being naturally suspicious, I think the HOME OFFICE discussion document's request to send *them* your comments is a bit of an unknown factor – will they actually record or list all the public opinion *against* them, and re-publish fresh proposals accepting they were WRONG in their choice of frequency – I think not. I have therefore sent copies of my official two fingers up letter to The Iron Lady at No 10, Wabby Willie and Tim Raison to make sure my views are known AND COUNTED, and I suggest your readers do the same.

All the high numbers.

THE MEDICMAN

We appreciate your scepticism it is as you say an unknown factor. However I trust that you have sent the H.O. an answer to their DD. Regardless of ones opinions this document requires answering.

JOH

Dear Sir,

I am sure you are aware of the political and religious divides in N. Ireland.

Well I was waiting on the side the other day and I overheard two CBers on the air, one was from Andersoustown (hazard county) a catholic part of Belfast and the other was somewhere on the east side of the city, a mainly Protestant area.

Now under any other circumstances these two good buddies would not have passed on the same side of the street, but on the airwaves they were chatting away to each other, so I think the old chicken box has caused a divide that Politicians and Clergy

could never bring together.

This is the kind of comradeship which exists in our club, where everyone is made about CB and couldn't care less what religion or party the other good buddy is in. Yours, 10.10. Breaker Break.

B.H.131.

Dear CB Radio,

Many thanks for printing my letter in your No.3 edition, my fears about the difference of opinion between the "27MHz or bust" and the "legalise CB" factions, as seen at the demo in Trafalgar Square, seem now to be thankfully resolved, with Andy Donovan and the UBA taking their seat at the recent meeting of the technical sub committee of the NCFL (NATCOLCIBAR). Perhaps now we can forget internal differences and work together for what we ALL want, legal CB.

The meeting on the 19th of Sep. of the sub committee was attended by many clubs. The clubs that were represented could show a membership total in excess of 55,000, so you can see that together we have real power, the committee's answer to the unacceptable "Green Paper" the Preferred specification, sets out a logical, practical, inexpensive well thought out alternative to the Governments unworkable, highly expensive system.

I believe the Home Office are relying on a poor response to their request for comments on the Green Paper, to show there is no public demand for CB, as they have already stated. We all know different, there wasn't a public demand for the Biro pen until we had it, its not the point that we have to prove that there is the need, but for them to show why we can't have it, and they the government can't.

Keep writing those letters, and your comments on the Green Paper to the Radio Regulatory Dept., not later than the 30th November, writers cramp will be worth suffering, nothing worthwhile comes easy.

DAVID J. BENNETT

Citizens Band Association South West

Dear Editor,

I have read your early issues of C.B. Radio and although I am all in favour of the use of Citizen Band Radio Communication in the British Isles I am prepared to wait until it is legal, and of course when a suitable frequency has been allocated.

What I do not understand is that there are so many irresponsible Britishers who are prepared to go "Pirate" in order to achieve their aim.

What is not taken into account is that the frequency of 27MHz is not considered by the powers that be to be ideal for the purpose. "Pirates" do not realise what damage they may do to the service already being served on VHF and UHF. There is the mobile doctor service, fire, police, ambulance, gas, electric, and many other civilian authorities and private companies who have been ALLOCATED frequencies on which to work.

Surely none of us can go around doing just as we please, and as for DXing and

skip talking, if any one wished to do real DXing would it not be too much to expect them to join their local radio club, and take their exams. Get their licence and then get cracking on W/T and R/I within the confines of their licence.

Radio Telegraphy Operators and Wireless Operators have much to learn before they can get on the air whether it be in Her Majesty's Services or as Amateur Radio Operators. Surely it is wrong that so many people today can just get hold of a transmitter/receiver and blast out on what may cause the death of someone at sea, in the air or even on the land.

There is no stop between Right and Wrong, no in-betweens, and no half-ways to put other people at risk. Is it really worth being a "Pirate"? Surely we must think of others first.

I am a Telegraphist, ex RAF with a twenty five year service record and I am a RN reserve and have been for five years. I honestly believe that NO good can come of transmissions by untrained unlicensed operators.

I would be interested to know how many of the large number of 'Hoax' May Day calls are being sent out by mike happy Pirates. Yours sincerely and respectfully,

T.H. WINZOR
Plymouth, Devon.

We would like to know if there are any Hoax calls. It would also be nice to know of a proven case of interference to services.

ED

Dear CB Radio,

I do feel we have a problem, the trouble is there are, or at least there seem to be two ideas about CB in the U.K. one anti 27MHz, the other pro 27MHz. I don't know where these breakers are that are anti 27MHz, I've only copied one in my time on channel, (almost one year). I might add we are now good buddies and after an eyeball even he reckons he would prefer 27MHz to 928MHz.

Why should we be different to the rest of Europe, let's face facts, we've got 27MHz, 500,000 breakers can't be wrong, it does work, it's not really abused and it certainly has made my job easier as a truck driver. It's quite amazing how quick the time passes when having a racket on the super slab.

We want a good CB set-up in the U.K. 27MHz is working with minimal hassle to the public. Come on Willie get on the flip and give us 27MHz don't make us wait too long, I am 35 now and I want to enjoy legal CB before I die.

Breaker Break, Keep on trucking.

SIDEWINDER ONE

Yes there are those who are for and against 27. One of the reasons you probably won't have copied many of the anti 27 group is that some feel strongly enough not to use 27. Let's face it they would be hypocritical to use 27 when not wanting that frequency.

ED

**IF YOU HAVE SOMETHING TO SAY
WHY NOT WRITE . . . continued over**

Dear Sir,

In one breath the NCFL say that we should all work together to legalise CB; in the next that this cannot be on 27 MHz. Why not? Is it because the Government have said no?

Their political naivety is obvious. All governments rule by dividing and thus weakening their opponents. The fact that the self-appointed members of the NCFL have been so easily conned into abandoning OUR frequency of 27MHz must delight Mrs. Thatcher, Mr. Whitelaw & Co.

The only way to change the present ludicrous proposals contained in the discussion document on "Open Channel" is for a united demand for 27MHz. Remember, we are all on this band right now. Surely it is better to fight to legalise what we already have with all its known flaws rather than something largely unknown which we might not even get.

Governments are only influenced from without by public opinion – the Green Paper admits as much. If a large section of the general public were to come out in favour of establishing CB on 27MHz then, miraculously, the Government would suddenly wake up to all of the many advantages of this band, at present swept right under their "Open Channel" green carpet. This view may seem cynical, but then so is politics.

Good Buddies of the NCFL please take note. The whole campaign for CB is to do with freedom – freedom of speech. If you are unable to practice what you preach then make way for people more representative of the opinion of U.K. breakers in general.

THE VITAL SPARK East Kilbride

You may be interested to know that the NCFL have now restructured themselves and have now included 27MHz in their thinking. UK breakers have always been invited to send club representatives to the National Committee and express their views. Trafalgar Square, by being, shall we say, controversial, has now encouraged more clubs to take up that invitation hence the NCFL should now represent the views of UK breakers.

ED

Dear CB Radio Magazine,

In answer to the letter from M.G. Leics., I should like to say that CB would be, and in fact is, a service to the community. As experiences in other countries show, CB saves lives – in the USA it is estimated that 10,000 lives per year are saved because of CB, that is about seven lives a day, this could happen in Britain.

As for using CB as an anti-police weapon by motorists tipping each other off about speed checks and patrols, in the States the police actually put out false reports to encourage people to drive more slowly, thus cutting down on the number of accidents that are caused by people speeding and giving them more time to get down to the more serious work of catching real criminals.

The police that I have spoken to personally think that CB can be a great help to them, in fact most of them would like to see it legalised as soon as possible. My own experience that shows how CB can be of help happened only recently. A friend of mine was worried about her younger sister who had run away from home, myself and other breakers found her and persuaded her to return home thus saving her family a lot more worry. In that case CB succeeded where the police failed, the sergeant in charge of the case was full of praise for the CB'ers.

This is Sex Kitten going on the side satisfied, Breaker-Break, bye bye I'm gone
SEX KITTEN, CBC

P.S. CBC stands for Clog Town Breakers Club.

Dear CB Radio,

I have a question, query, or is it a problem? have I missed something somewhere along the way.

Without disrespect to your advertisers, as I know that they must help to keep your mag on the road. I believe that I can claim to be a CB enthusiast. I have been involved in the scene for about 2½ years, I have modulated on 27MHz both AM and side-band, the best DX I've had but not the furthest, was Brazil on 12 watts with a Highgain electric whilst mobile. I also helped form one of the first London clubs (10-4). I have attended demos and marches, written letters to MPs, and also had my say on radio and in HE and Bandstand. I have even had a couple of near misses with the 'nastys'.

I welcome legal CB and would be the first in the queue to purchase a legal rig. But I cannot see us getting legal on 27MHz AM, so why do your advertisers continue to advertise antennas and accessories for 27MHz. Yes, I know that some of the accessories could be used for other frequencies (not 928) but the antennas and matchers, could not. I have heard from my sources that some of the retailers are supposed to be selling £1000s worth of gear weekly. So who is buying it? Is it unknown members of the public who have heard that CB may go legal, but being ignorant believe that 27MHz antennas and such will do for the legal frequency when we get it and are stocking up early.

Is it new breakers? Now this I do not believe as I think the air is clearing of illegal 27. Well it seems to be in my 20. As I write this it's 11pm on a Saturday evening, my monitor is tuned to 27.125MHz and all I can hear is some Italian skip. This time last year the breakers were queuing to get onto channel 14 for a copy.

When I heard that things were about to move towards legal CB I started to unload most of my 27MHz gear, and many of my buddies did likewise. I had a few hundred pounds worth of 27MHz equipment, and no way was I going to be lumbered with it.

I've even seen an ad, not in CB Radio I hasten to add, that read 'C.B. legal soon order now, rigs and antennas'. That was a bit strong to say the least. Another silly thought I had was maybe some people are just buying antennas to fit on their mobiles so that they look flashy and give the nastys a run around.

Could it be that we are getting legal 'Open Channel' on 27MHz FM, now that idea I like. Maybe the dealers know something that we the breakers do not, well they do keep having these secret meetings at county hall with the NCFL/CBR, so what's going on, can anyone tell me?

MACK THE HACK
London

The NCFL and the trade get together for their technical sub committee meetings in an attempt to offer the Government a sensible suggestion for British CB. Last month we printed their preferred specification which has now been re-structured to include 26.5 MHz to 500 MHz.

The NCFL do not have the Government sold on the idea of 27 FM, the Government still emphatically rejects 27 full stop. Legal CB on 27 FM would probably be popular with quite a few breakers but we are a long way from getting that. The situation at present has not changed, the fight for CB is still on, you haven't missed anything.

Perhaps one four has gone quiet in your area, but from figures compiled by us, purely verbal you understand, there is at present over a thousand rigs being bought a week. Now that may not mean a thousand new breakers, some may be second rigs or for base station use. But each rig bought needs an antenna and as with any hobby people always go overboard and collect every conceivable accessory. Apart from Video, CB is probably the newest and fastest expanding market that has hit Britain for years. The fact that using 27 equipment is illegal does not seem to stop people and as yet no positive action from our dear old bureaucracy gives anyone an alternative. In short, accessories for 27 are being bought by CB'ers.

Nice to hear from you Mack hope we have answered your problem.

JOH

Dear CB Radio Magazine,

A vote of thanks to the passing breaker, who having seen a road traffic accident on the A46, 5 miles West of Lincoln on 24/8/80 @ 11.50pm, put out a 10-33 which I copied and land lined to the local (somewhat bewildered) smokeys, thus rendering assistance within minutes of the accident.

The breaker who did not give his handle, I believe came from the Nottingham 20.

This is what CB is all about, and as I was at least 14 miles from the area of the R.T.A. at the time I am sure this would not have been possible with the proposed Open Channel rigs.

27 Rules, O.K. 10-10.

SANDPIPER
C.B.C. Lincoln

Dear CB Radio,

I am not as yet a "breaker", being a student with very limited finances. Indeed the prospect of an x-hundred pound fine if collared by the men in blue is enough to make one stop and think, (also if I couldn't pay the fine a prison sentence would completely ruin my University Degree Course), but I would dearly love to go on the air – who knows, I all but bought a rig today! I am very interested in getting CB legalised, especially on 27 MHz as this sort of cheap set up is the only one I could afford.

So come on all you breakers out there, this is your once in a lifetime opportunity! What's everyone waiting for? Let's face it if every CBER and ever CB fan who is put off the idea of taking to the air by the law, wrote to the Home Office protesting that they want CB – whether it be on 27 MHz or not – then the public's views are at least going to get noticed by the appropriate authorities. They'd have to be completely blind not to notice God knows how many thousands of letters on their doorstep!! So "chaps" rather than writing angry letters to each other how about doing one really well thought out, pulling-no-punches letter to the Home Office? In the second edition of "CB Radio" alone there are enough arguments for CB and 27 MHz to convince an out and out Anti-CB militant, provided the points were strung together in one coherent letter.

So come on get scribbling each and everyone of you, this could be your only chance to get 27MHz legalised.

Yours faithfully,
PETER WHITEHEAD
P.S. Dear "Englishman", I was so impressed with the arguments about the wavelengths put forward in No. 2 "CB Radio" by the Vice President of "Firestik" Antennas, I am enclosing a copy of the article with my CB protest letters to both my MP and the Home Office – this sort of journalism is exactly what the CB lobby needs. Great stuff.

Dear Sir,

I felt compelled to write to you and thank the breakers in the Clapham area of London for their great friendship shown to me during my recent visit to London and Disco One. My girlfriend 'Blondie' also would like to thank the Duchess for her kindness.

It is a strange experience driving around London with so many CBERs on the air, listening to them and talking to them. I just wish that the local breakers in Paisley and Glasgow would learn more.

I have decided to try and get a branch of the U.B.A. started in Paisley and anyone interested should get in touch with the Pinball Wizard.

Andrew Graham, PINBALL WIZARD
Paisley Renfrewshire



The Law and You

The situation to date, a synopsis.

In issue one we had a brief mention of the manner in which police should act when confiscating equipment for, and on behalf of the Customs and Excise, and the fact that there is no power of arrest for Citizens Band.

Issue two, and we re-printed a police memo from the Chief Constable to all Chief Superintendents stating that the Northampton Police would no longer assist the GPO in stopping or detecting Citizens Band users.

Later, in issue three, we printed the Directive from the Home Office to the Post Office regarding the action to be taken against users of CB Radios. (Before you all write in asking if this issue is still available, the answer is yes.)

Last month our solicitor commented on the situation and the actual offence that using an unlicensed transmitter comes under. He also commented on monitoring 27 MHz transmissions with equipment not capable of transmitting i.e. monitors that adapt a car radio to receive CB transmissions.

This month we will itemise the interesting points, as we have said before there is at present no direct or specific legislation for Citizens Band. One refers to CB as being illegal but it's not under any precise and clear cut directive, it is a combination of existing sections of the Wireless Telegraphy Act.

1) It is not an offence to possess equipment capable of transmission.

However most CB equipment has been illegally imported and therefore has avoided importation duty. Thus the Customs and Excise is empowered to confiscate the equipment. Statutory Instrument 1968 No.61 made illegal the import or manufacture of equipment capable of transmitting on or between 26.1 and 29.7 megacycles. Citizens Band Equipment falls into this range and therefore cannot have duty paid on it.

2) Whilst duty cannot be paid on an assembled item capable of operating within this range, it is possible to import the components in a kit form, duty can then be paid and importation is no longer an offence.

The onus now changes to the purchaser, he or she has not committed an offence by purchasing a kit.

However if the person then assembles the kit into a working transmitter capable of transmission, they have then constructed prohibited apparatus contrary to section 7, paragraph 5.

3) Should such equipment not have been assembled by themselves, possession is not an offence. However concealing the source of the apparatus and in particular the assembler is an offence, obstructing the law in the pursuance of their duty.

The Post Office Radio Interference Service is empowered by the Secretary of State for the Home Department to uphold the conditions of the Wireless Telegraphy Act 1949 and 1967. The 1967 Act is supported by the Statutory Instrument No. 61 1968.

4) Installation of any apparatus for any form of wireless telegraphy except in accordance with a licence is an offence.

A licence for frequencies 26.1 through to 29.7 MHz for the purposes of voice modulation is unobtainable and not issued. A radio modellers licence for 27 MHz does not cover Citizens Band equipment capable of such modulation.

5) Transmission is an offence without a licence having been issued prior to transmission.

Proof of such transmission must be obtained. This maybe either an admission of use by the owner, or evidence of the content of transmission proved to be radiating from the said equipment. It is necessary to prove that such equipment is capable of transmission.

6) Without a search warrant issued for the vehicle or premises concerned, a police officer does not have the power of arrest, nor does he have the right to search unless issued with a warrant for the specific vehicle or premises. In both or either cases prior permission and authority to act must have been obtained from the Customs and Excise.

Equipment can only be detained with a search warrant or with the owners consent. Apparatus can only be detained pending a prosecution under the Wireless and Telegraphy Act. If there is not enough evidence for such a prosecution, the equipment will

have to be returned to the owner, unless the Customs and Excise seized the equipment themselves as illegal contraband.

7) There is no power of arrest for using Citizens Band Radio. An offender cannot be detained against his will, he must however give his name and address, thus being seen to be co-operative. The vehicle or the equipment cannot be detained without prior permission from the Customs and Excise.

The problem here is that equipment cannot be detained or seized without first verifying that it is illicit apparatus. This verification cannot take place without a search warrant or without the owners consent. Therefore the vehicle can only be detained pending the arrival of a Customs and Excise Officer, and only then with their prior knowledge and consent.

8) Any equipment detained either with your permission or with a search warrant, must be receipted. The owner of the equipment must receive a receipt for the goods detained.

The apparatus must be removed either by the owner or if by an official it must be removed carefully causing no damage.

There is no power to detain, other than as evidence pending a prosecution, anything other than the transceiver itself. Any other accessories detained must be receipted and returned after the case has been prosecuted. Such retention of accessories must be with prior permission and knowledge of the Customs and Excise. It can be normal practice to require receipts showing legitimate purchase of such accessories before they can be restored to the owner.



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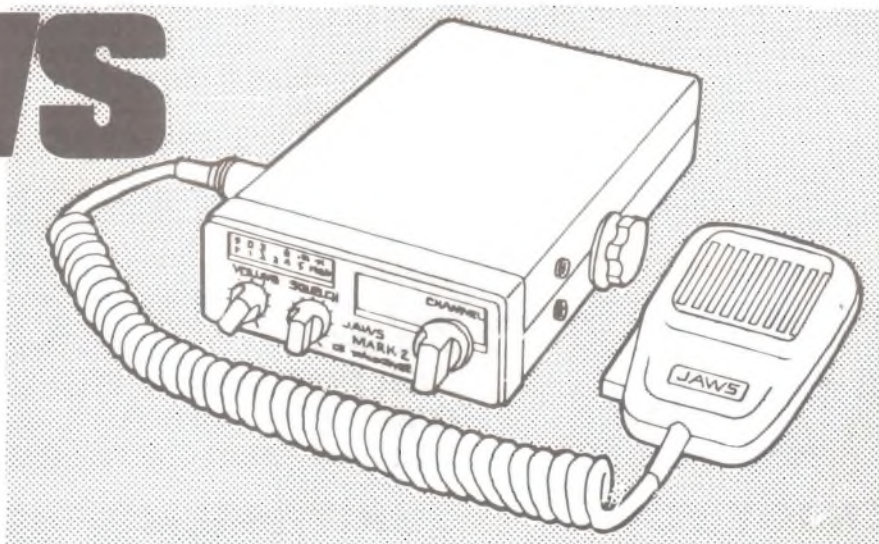
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Come Back the Breaker

A correspondence spot for those interested in Citizens Band.

Hi there Good Buddies.

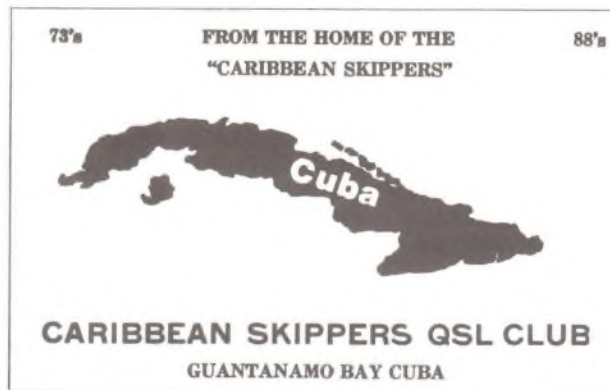
The Nottingham and Derby area is without a doubt second only to the London area, in the amount of CB users, and, as such, there is a very large potential market, in what you might call CB software; i.e. SWR Meters, power meters, aerials, matchers etc. etc.

For this reason we are holding the first Midlands Radio Fair, and mass Eyeball on Sunday, November 9th, 1980, at the Festival Inn, Trowell, Notts. The Main Hall and both the adjoining bar and lounge have been exclusively booked, and will be open from 10am Sunday morning, until 5pm on that evening.

The idea is to be run basically upon the lines of an Antique Fair, a large hall set out with Trade Stands, a bar, and catering facilities, where CB'ers, their friends and wives can meet, have a chat, have a pint, and buy some goodies.

We estimate that there will be a very good attendance, both by local and long distance Breakers, and we have been assured support from all local CB clubs, and, of course, the power of ON CHANNEL promotion.

abandoning the area or by mutual agreement. Christopher Columbus dropped anchor here in 1494 but finding no evidence of gold or fresh water, he left the next day. During the years that followed, Guantanamo Bay became a haven for pirates, pirateers and now the "Caribbean Skippers" and the Earth DX International Group.



QSL from Cuba

Greetings from Guantanamo Bay, Cuba.

I would like to provide you with some information about CUBA. Cuba is the largest of the West Islands with an overall length of 780 miles and average width of 50 miles. Guantanamo Bay is a large inlet on the south coast near the eastern tip. The U.S. Naval Section is approximately 435 miles south of Miami, Fla. USA and is the oldest U.S. military base on foreign soil. U.S. involvement here dates 1898. In 1934 a treaty was negotiated giving the U.S. a perpetual lease on the base and can only be voided by the U.S.

GTMO is about 48 square miles of coral, separated by the bay which is 22 square miles. It is a self sustaining island producing its own water and electricity. We have only one season a year here with an average temperature of 86 degrees. It has many tropical fruits and we do not have any sandy beach, only coral. I like to refer to GTMO Bay as "the land of the coconuts and BIG IGUANA".

We operate from the US naval base, so if any of you wish to QSL, just drop us a card.

God bless you and yours 73's, 88's and 51.

From Gordon.

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DX QSL International Club Spot

Another report from Lima Charlie 1 on QSL Clubs.

Hi again readers, last month I indulged myself and told you of my own club, The English International DX Club. Before I start I would like to thank you if you wrote asking for info or wishing to join, we will be in touch pretty soon. You know actually running a club is not as easy as it first sounds. It is not just a case of printing up some QSL cards, some membership applications and sending out packages of goodies designed to entice the new members.

If you intend to start QSLing you must be 100% QSL. There's no half hearted way of doing it, every single QSL card must be answered with a signed and dated QSL of your own. Unfortunately this is not always the case, many people collect cards and hardly ever send out their own QSL. This in itself is not too bad, the situation is worse however if they run a DX club. For now you are taking on a large responsibility and members pay for the privilege of joining, they also expect service for their money. I always offer this service and my club is one of the best! No, seriously, the reason I am writing is to try and help you when you decide to join a QSL club.


I am a member of many clubs throughout the world, some I have found to be rip off merchants, others like the VIP's Club of Greece I have found to be very good. If you are just starting to get into QSL and want to join a club it can be very off putting to join a duff club.



The VIP's CB Club of Greece offers a good package with a smart rubber stamp, club cards and a personal ID card amongst other goodies. All the items are of a good quality although at around 19 dollars the membership can be termed a little costly, but then you do pay for quality.

I must point out that most, in fact all clubs do require you to have your own personal QSL cards when you join. If you just send postcards with your name and not much else on you are likely to have your invitation sent back or put into the waste paper bin.

It is very important to have personal cards, they should also be signed and dated when you send them off, this way you won't be disappointed. When you send these cards to the club they are then passed on in turn to other new members. You will find that you will start to receive QSL cards in return just about every day. Within a week or two your QSL collection or wallpaper as some DXers call it will start to build up.



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	<input type="checkbox"/> CLUB STICKER \$ 1

British QSL cards are sought after, mainly because we are one of the last countries to start using CB. We all know the reason for that don't we! Anyhow I would advise you to go and get your own QSL cards printed and start your collection. QSL swapping is a big thing all over the world. Being British makes your card one that always gets answered, you will make friends all over the world and you all have a common interest, CB.

My star rating for the VIP's Club of Greece is ten out of ten, just about one of the best I have come across. Next month I will tell you my opinion of The King QSL of Belgium.

So until then all the good numbers from me and mine, take care and God bless.

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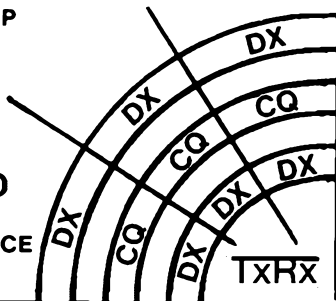
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