

CB

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RADIO

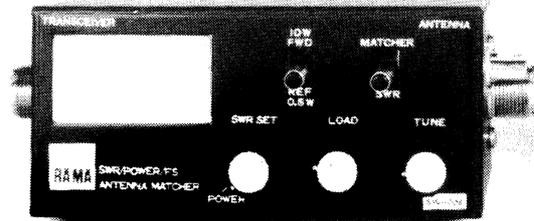


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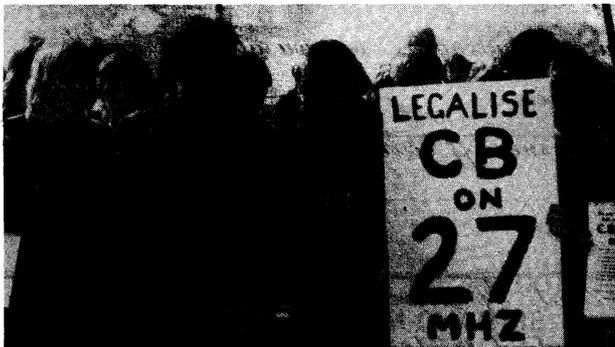
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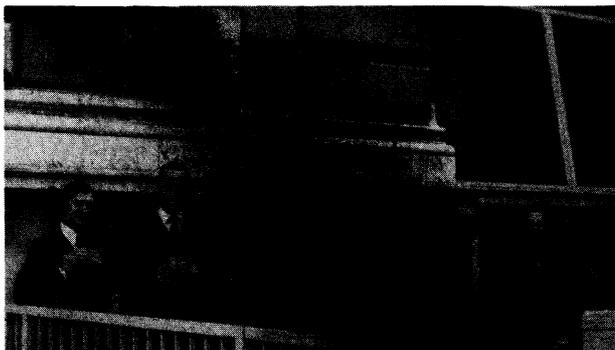
CB RADIO



The Citizens Band banned at B.B.C.



Brighton Breakers produce a good demo



Red City Breakers come to London

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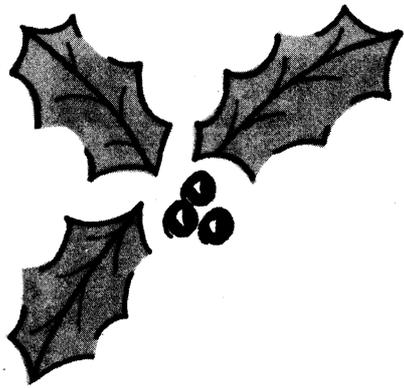
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Merry Christmas

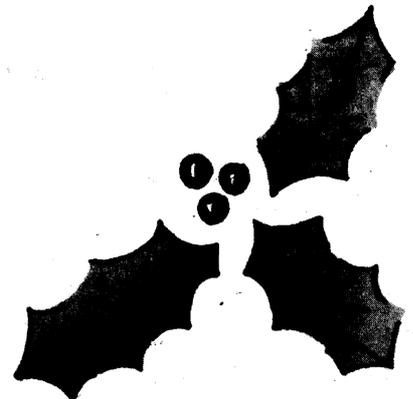
*From us "The British Breakers Magazine" to
you "The British Breaker".*

*We won't spoil the effect this month with a long introduction.
All we really need to say is have a great Christmas and
thank you for reading us, see you all next month.
10-10 till then.*

*Keep the snow off your screen and stay shiny and
clean.*
The Englishman.

*P. S. If you're wondering why we haven't
added and a happy new year to our
greeting - the answer is simple, issue 7
will be available just before Christmas
so if you're not too 'brahms and list'
to hop into the wheels for your
copy, we'll save it till then,
and just in case you are,
have a nice one!*

E. M.



Play our Record

The BBC had allegedly refused to play 'The CB Song'.

We all know that Citizens Band is an emotive subject, it seems that when the initials CB are mentioned doors begin to close. In truth there is probably no reason for this but people do begin to ask, is it illegal to talk, write or sing about CB? As a magazine on the subject we have noticed a reluctance by some to deal with our publication. Most of this reluctance is undefinable and opposition is seldom voiced thus the reason for the reluctance remains intangible.

It was a similar intangibility that caused a group of some 250 CBers to march on the BBC.

The Citizens Banned

Recently among the 80 odd records that are released every week, there appeared one entitled 'The CB Song' by 'The Citizens Banned'. The song was put together over a year and a half ago more as a joke than as a serious commercial attempt on the charts, regular readers will have read the article we did on the record in issue 3.

A friend of the composer had heard this tape and saw potential in it. He decided to put up the necessary financial backing and the finished record was released late September.

Not long after its release the record was climbing up the lower end of the charts. Local radio stations showed their interest and the Band found themselves whisked here there and everywhere in a promotional campaign.

The record reportedly reached the top one hundred and began its climb upwards, the last figure quoted was in the seventies. Then with what the promoters called abruptness, the record slipped out of sight and the sales no longer added to the records listing.

From enquiries made it appeared that the record had been banned and had been removed from the listing. On enquiries made it appeared that the record had been banned and had been removed from the listing. On enquiring further the promoters received negative comments from the BBC, but Capital Radio hinted

that they had been advised not to play the record by the I.B.A. (Independent Broadcasting Authority).

Force an Answer

Now convinced that the BBC would not play the record, a couple of clubs got together to arrange a demonstration.

Designed to show the BBC and the press that CBers existed and wanted

their record played. Leaflets were handed out quoting that over 2,000 CBers intended to march on the BBC.

Sunday came and a group of slightly shivering CBers started to gather around a white Range Rover which was to lead them. There had been some confusion with the Police escort, the intended starting time was 11.30, however the police wanted to move off at 10.30. At ten-thirty there was only fifty or so CBers gathered



Spatz Melzer the vocalist gives the crowd at Speakers Corner a verse of 'The CB Song'.

but more were on the way.

The police agreed to wait another twenty minutes during which time two coaches arrived. However as the time approached eleven the march had to get under way leaving another expected coach full behind.

Slightly embarrassed by the 1,750 short the marchers began to make up for this as much as possible by shouting the familiar CB chant at the very top of their voices. Winding down Oxford Street the protestors reached the BBC where unfortunately they were prevented from playing the record over the tannoy. So petition in hand a representative from the record company was allowed in to the BBC.

Many of the marchers were all for going on to Capital Radio, however they settled for dispersing and re-grouping at Hyde Park. Here the banners were raised and one or two of the more talkative present began to explain to the now large and interested audience what CB was and why they were here. The singer of the record was lifted shoulder high and he sung a few bars of 'The CB Song' and a bemused audience was left wondering what 'stack them eights I'm down I'm gone' meant as everyone joined in the chorus.

It made the news

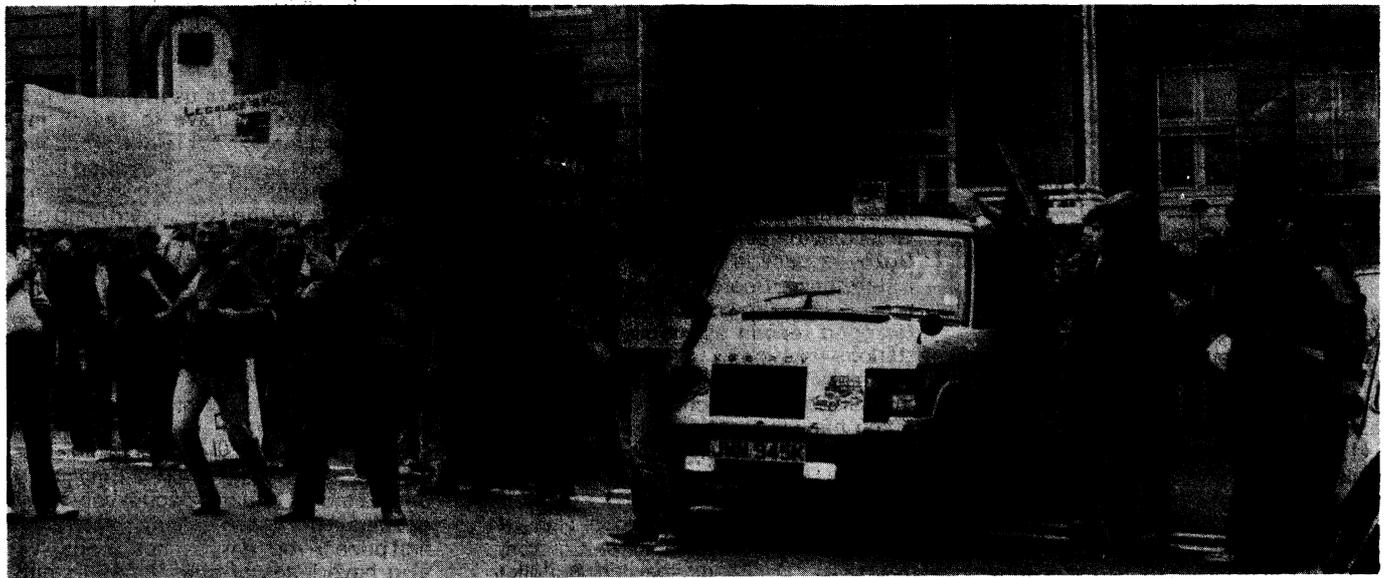
Later, on the drive home, the BBC news told of the siege by 250 odd Citizens Band enthusiasts, and the official BBC position was announced, namely 'that the record was not banned, it was merely one of hundreds of records released every month and as yet there was no public demand for it to be played'.

The newscaster continued saying that the protestors had left several copies of the record with the BBC and then explaining briefly what CB was.

So although not a highly successful venture at least everyone enjoyed themselves and Citizens Band got one more airing.

P.S. Copies of the record can be obtained from Go Records, phone Chichester (0243) 775502, Ms. Jennie Beaumont.

JOH



Club Spot

CBC.

The CBC or to give it its full title - The Clog Town Breakers Club, had its beginnings in April of this year. At that time there was no code sheet for twenties in the Bolton area and so a few breakers (about twelve) arranged an eyeball with the intention of compiling such a sheet. At least that was the intention. As the evening wore on breakers who had not been invited began to roll up and the meeting developed into a rare old booze-up. In their wisdom, the breakers decided to arrange a proper meeting for the following week.

Week two saw a repeat performance of week one, more breakers arriving, more pints sipped and no code sheet.

Week three followed suit and so a change of venue was proposed for week four, (you can only fit so many into a phone box after all). At the fourth meeting about twenty or thirty arrived and a jolly time was had by all, but still no code sheet.

Then we moved again to a pub near the mini slab where it was proposed to throw the meetings open to any interested Bolton breakers. This resulted in yet another change of venue, this time to a pub on the moors. The first meeting there was attended by between sixty and seventy breakers and a committee was finally proposed and elected. "At last" thought we in our innocence, "meet here every Wednesday for our eyeballs, have a good ratchet and a pint, catch up on all the news from other clubs, relax and meet other breakers."

Not so, three weeks later we were on the move again to yet another venue as numbers snowballed. After two meetings at this one, (affectionately known as Number One) we seem to be settled at last.

Membership at the last count totalled over two hundred and is constantly growing. What did we say about being settled? How much does it cost to book the Albert Hall for an evening?

Well there you have it, all the good numbers to you and all the readers of your mag.

This is Sex Kitten going on the side and satisfied.

Breaker-break. Bye-bye I'm gone.

P.S. We still have no code sheet. 10-10

North Manchester CB Club

A word to let you know of the formation of the North Manchester CB Club, after only two major eyeballs we have a membership of over 200 and we are still growing.

At the moment we are organising a Social Committee and have many ideas in the pipeline.

On the legal side we have the voluntary services of a Solicitor and we try to keep in touch with other local clubs in order

that we all may help in the legalisation of CB. A REACT type service is being organised at present and when we have sorted it out we will let you have the details.

Currently we meet at the Belmont Hotel, Middleton Road, Crumpsall, Manchester 8 on alternative Mondays at 8 o'clock and all new breakers are more than welcome.

That's all for now, we'll keep in touch. Breaker break.

Blaster Bates.
Public relations officer.

SBCBC.

South Birmingham Citizens Band Club is a fairly new club campaigning for the legalisation of 27 MHz with a workable alternative. Unlike many official bodies we recognise that if it were not for the illegal operators of Citizens Band Radio in this country, legalised CB would be a pipe dream and not a near reality as we soon hope it will be. We feel that it is grossly unfair to expect those people who have campaigned rigorously for CB to be told to throw away hundreds of pounds worth of equipment.

We would like anyone in our area who is interested in CB to contact us and we will offer as much help and assistance as possible.

As a club we are also interested in helping the disabled, no doubt most of you are aware of the advantages CB has for the disabled so we have a disabled section run by our own Angel 1.5 who himself is disabled.

Hope to hear from you soon. 10-10.

R.A. Smith.

The East Coast Breakers Club.

The club we have now officially got going, had previously been secret. For six months we met in secret but decided the way to get something done is to stand and be counted. Known as The East Coast Breakers we now currently meet every fortnight at the Queens Head, Great Clacton, all (well almost all) welcome, Buzby is busy in this area, with Radio Interference Board in Marks Tey, the local area is known as "Hazard County" for good reason as mobiles and base stations have been busted. Still we are in the process of getting a club barrister, plus all the usual functions organised. So if you happen to be in this neck of the woods we are on 19, watch for Buzby. All the Golden Numbers.

Drifter.
East Coast Breakers Adc. of Hazard County, (Harwich, Colchester, Clacton, Essex, Ipswich, Suffolk.)

Kent and Essex Breakers Association.

The club was formed about a year ago by myself and a couple of other good buddies in the South Essex - North Kent area. The club which currently has about 60 members all know one another, and people not known by anyone are viewed with certain suspicion. This may not sound like a very good advert but we feel it is the best way to protect our members. However we would welcome new members and anyone interested is more than welcome to write to: K.E.B.A. c/o 24, Mill Lane, West Thurrock, Grays, Essex.

The club is well organised and is now advertised freely. Most breakers in Kent, Essex and East London know the club, but very few come to our meetings. A typical meeting would deal with points arising from last weeks minutes followed by other business that may arise, then we have a half hours break for refreshment. Then we spend a good deal of the remainder of the evening with technical questions and problems plus general discussion. A good night is generally had by all.

A news gathering and distribution service is also operated. We would like to expand our club and if we get legalisation we would also like to be an official Citizens Band (or "Open Channel") club.

Yours faithfully,

Charlie.
3's & 8's to you all.
10-10 for now, Pinball Wizard.

F.B.I.

Dear All,

Just a line to let you know what we're about. The F.B.I. Friendly Breakers Incorporated, and you ain't gonna find any club friendlier than ours.

We meet every Wednesday evening in the pub opposite the blood bank in Ashford Middlesex. What the hell!!! The pub's called "The Bulldog".

There's over 500 of us friendly or is it nutty breakers, I'll have to search my mind to find the answer to that, because at one of our meetings we decided to do a little something for charity. So some bright spark decided we should jump out of an aeroplane. Being a bit soft in the head and the worse for beer I stuck my handle with the thirty or so other nutters. We also hold a Wally of the Week award which goes down very well, and I nominate the next award to the breaker who jumps without a shute!!! I ain't been wally yet maybe I'll try it? (Not one word from you flasher).

Changing the subject back to the club, we give free CB Mags to all F.B.I. members once a month and have some very tasty goodies in our raffles including last weeks first prize "A Rig" eat your hearts out!! We also have loads of other activities and

very reasonable discounts at some of the local shops in the area.

To all of you if you can make it, you are very welcome, but please come clean.

Your's Cockney Sparrow.

(P.S. Love your mag. ED. (what a crawler! am)

You don't have to crawl to us unless you misjudge the groundrush and break an ankle. Good luck. ED.

Lima Victor CB Club.

Lima Victor (Lagan Valley CB Club) is probably the most active club in promoting 27 MHz as a frequency suitable for Citizens Band. We meet regularly, at least once a month, at The Halfpenny Gate near Lisburn. Our present members number 650, all of whom have paid £5 membership fee. £1 of the £5 goes as our affiliation fee to the N.I.C.B.A. (Northern Ireland Citizens Band Association) of which we are founder members.

Recently the N.I.C.B.A. organised a massive rally at Hydebank playing fields near Belfast. The rally was called to protest at the Government's suggestion of 928 MHz as a proposed Citizens Band frequency. More than thirty clubs attended and there was a very strong consensus that we needed 27 MHz now on an interim basis until a more suitable frequency could be found. 928 was a total 'non-starter' as far as everybody was concerned.

Police estimates of the numbers attending the rally varied from 3,000 to 4,000

which is just about a 50% turnout of known CBers in Ulster. A carnival atmosphere covered the meeting and all the 'good buddies' reached home without any reports of incidents.

Things are moving here in Ireland and the Lima Victor Club is doing its best to get CB legalised.

Best regards to all breakers from,
Lima Victor 160 (Jacko).

Liverpool Breakers Club.

Dear Sir,

The committee for the Liverpool Breakers Club consists of myself - The Godfather, Sunseeker, Bald Eagle, Bulldog, The Stoat, Scotch Mist and Greased Lightning.

We have put a great deal of effort and time into the formation of this club, offering rigs, accessories and electrical expertise to our members.

Many thanks for an extremely informative magazine for breakers.

The Godfather, Liverpool.

Citizens Band Cleveland. (C.B.C.)

Citizens Band Cleveland is in association with Citizens Band Radio Club, North East, (C.B.N.E.) It started up about 3 months ago and meets every Thursday at Cross Keys, High Street, Yarm.

Chris Hodgson.
(Secretary C.B.N.E.)

Edinburgh Citizens Band Radio Club.

The Club is now well established with nearly one hundred members and meets monthly at the Fountain Inn, Barts, Edinburgh every second Wednesday.

We had a petition going round protesting against 928 MHz and asking for a useable frequency. This was delivered to the Secretary of State for Scotland as the climax of our Car Procession through Edinburgh on Saturday October 11th. The 'Convoy' started on the Glasgow Road on the West side of the city.

As you may have gathered we are a 'legal' club and cannot condone all those 'nasty' good buddies on 27 MHz. We decided on this policy at the outset and have benefitted from the best of both worlds. I suspect that 90% of our membership are 'good buddies' and because the club does not condone this we are able to have articles printed in local papers and airtime on local radio. The local media would have nothing to do with us until they satisfied themselves we are legal.

10-10 till we do it again.

Jim Martin, Secretary.

ATTENTION ALL CLUB MEMBERS:

Due to popular request we will be printing an A-Z of known clubs. Make sure your club is included. Write or phone us now with your club name, meet, night and address.

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Speech Processors

by E.A. Rule.

A series of articles written expressly for CB Radio Magazine designed to help you the reader understand speech processors and their working.

The most important requirement of any communication system is that it enables the greatest amount of information to be passed with the minimum of expense and effort. For many years the use of Single Side Band transmissions had been very popular with amateur radio stations and more recently CB. It has proved to be a very efficient system in comparison with double side band AM or FM transmissions. However, due to the nature of the human voice speech waveform the full power potential of these systems cannot be obtained unless the speech waveform is 'processed' in some way to remove the peaks. Fig 1. shows a typical speech waveform, note the very high peaks relative to the 'average level'. It is these peaks which drive a transmitter to its maximum output power with the result that the more important average level is well below and a general loss in communication efficiency results. If the lower levels are increased the peaks will over modulate the transmitter resulting in severe distortion and 'splatter' into the adjacent channels.

Referring to Fig 1. the difference between the peaks and the average level can be around 15 to 20dB (ratios of 5 to 10 times). This is equal to a power difference of from 32 to 100 times! In other words a typical 10 watt transmitter will only be operating at around from 0.1 to 0.3 watts output on average speech level!! However, most transmitters have some form of simple speech processing built into them and a general improvement of 6dB (twice) is fairly common. But, even so, this is still only an average power output of around 0.4 to 1.2 watts for a 10 watt transmitter.

Well designed speech processors enable an effective increase in 'Talk Power' equivalent to an increase in transmitter power of ten or more times to be obtained with a considerable increase in communication efficiency. As always there is a trade off between one requirement and another, but in our case this turns out to be a further advantage. The trade off is that in order to get rid of the unwanted peaks in the speech waveform it is necessary to pass the signal through a non linear circuit with the result that considerable distortion is introduced. Now, if we were considering a Hi-Fi transmission this just would not be acceptable, but we are only concerned with speech communication and this can tolerate quite large amounts of distortion before efficiency suffers.

The way this trade off works to our advantage is that in order to remove some of the distortion we can limit the audio band width and this in turn removes unwanted low and high frequencies from the speech which only waste power thus leaving more available for 'Talk Power'. It is now well established that as far as speech is concerned the frequency range of 300Hz to 3000Hz is all that is required for very good communication

quality. However, it is important that any audio filtering in the speech processor is carried out in the correct order if maximum efficiency is to be obtained. How this is done will be dealt with in part 2.

There are a large number of commercial speech processors on the market and some of these are very good, however there are also very many that are not and even a few that make the signal readability worse! The reasons for these variations and what to look for will be dealt with later, but one way of finding out is to listen on one of the bands to stations using them. A well designed speech processor **WILL BE HEARD BUT NOT NOTICED!**, in other words if the processor is working (and being used) correctly the signal will be very loud but there will not be any other outward sign that a processor is in use.

Figure 2. shows a typical speech waveform (the word 'Hello') before, and after, passing through a well designed processor. Note how the peaks have been removed even although the average level has been increased by around 15dB or so. As far as 'Talk Power' is concerned this would make a ten watt transmitter using the processor equal to a Three Hundred and Twenty watt one without!

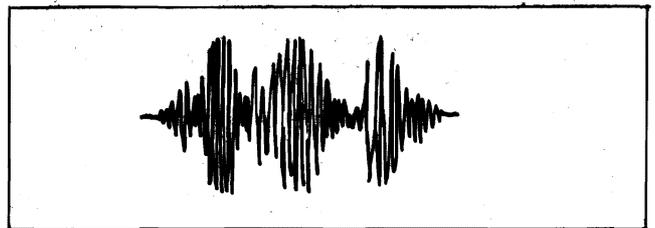


FIG 1. Typical Speech Waveform. Note the high amplitude of the peaks relative to the 'average' level.

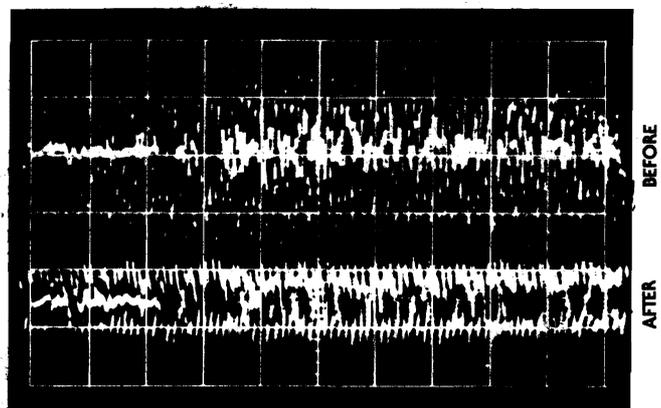


FIG 2. The word 'Hello' before and after passing through a speech processor. Note the peaks have been removed even though the average level has been increased.

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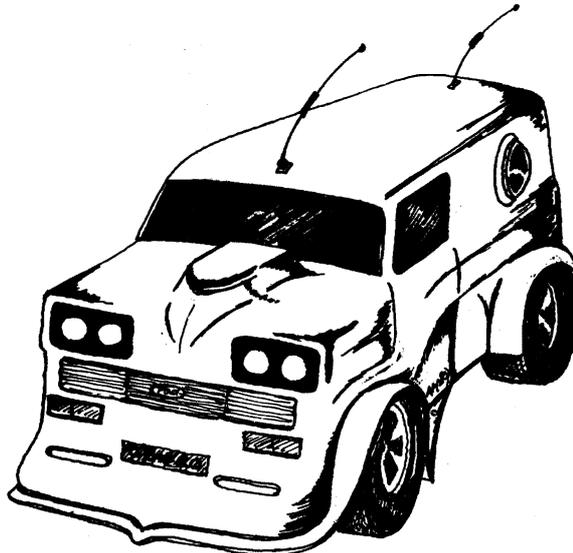
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Vultures on the Side



Two for the price of one, nineteen Redruth breakers are swooped on, and one member relates his close encounter whilst on holiday.

Raids are carried out by teams of Post Office and Customs men aided by police in the Redruth area. There was even talk of the AA aiding the police teams to unlock vehicles.

Six teams of the 'nasties' as they were dubbed, were working the West Cornwall area and local police were complaining of having been draughted in to do the dirty work. One truck owner refused to open his vehicle and was both astonished and angered when an official raised a hammer to the windscreen threatening to smash it if he didn't co-operate.

Mr. Ron James said, "When I refused to open the cab the official raised a hammer to the screen. I went berserk and shouted I would kill him if he smashed it, I then had to produce my keys. The police had already broken into my car at 9am that morning and removed my rig although they didn't damage the vehicle. Evidently the AA had advised the police how to open my car without damaging it.

Commenting on this later a Customs department spokesman said that the warrants would give the arresting officers the power to seize the goods using whatever reasonable methods were necessary and that if the person in question has any complaint he is free to put it to the board.

Nine sets were seized from vehicles and ten from private premises. Seven of which were found under one roof.

Close Shaves

Not related by time, more by circumstances, the club member reporting the Redruth incident informed us of his own intrigue on a recent visit to Edinburgh.

I was travelling through Edinburgh on holiday and breaking on one-nine, I took a wrong turning and stopped, intending to look for directions, I noticed a car pull in behind me with three hefty looking guys in it. One got out and came up to my window. I was still in my car with my family so I wound down the window. He leaned in and said that he had been monitoring me and knew that I was on holiday and heading for the Forth Bridge. He said "We are from the Home Office and we believe you are operating an illegal CB in your vehicle, you may if you wish hand the set over to me now, we are in contact with the police, so you can if you wish wait for them to arrive and let them deal with it". I decided that was the best idea and told him I would wait. As he turned to walk back to his vehicle, I put my car in gear and took off.

Unfortunately I sped off down a dead end, as we drove my fourteen year old son King Cinders disconnected the rig, I spun round like something out of the Professionals and headed for Edinburgh Airport, leaving the HO standing.

Things began to heat up, as we approached I recognised the HO sat outside at about the same time as he recognised us. He jumped out and began to approach us, once more I left him behind as I put my foot down and passed their car. They just looked at me in amazement.

In hot pursuit

Now we were moving pretty fast and had travelled over 15 miles, glancing in my rear view mirror I felt my heart jump into my mouth. Looming up behind us I could see blue flashing lights. They were still distant so I pulled into a lay-by and my son dashed out and hid the rig in the brambles.

The police caught up with us a little further on followed closely by the HO. All hell let loose now with rather disinterested policemen looking on in amazement as the HO jumped up and down demanding us to give him the rig. Which of course we didn't have. Not believing us he pointed out to the police all our CB 4 UK stickers and stated that we must have a rig. I told the still disinterested police office that I also had an "I shot JR sticker", did that mean that he suspected me of murder. Needless to say he laughed. The HO were not amused. However after a lot of agro and argument they eventually asked for my name. Naturally my confidence was riding high so I refused. But now the police showed an interest and asked for my name, I asked why and he answered for a roadside check. After a little persuasion I gave it to the officer and not the HO although they probably did hear but I made a point of letting them know I had not given them it.

The HO then wanted me cautioned but I refused to listen and talked to the police instead, asking them if I had to remain or if I could depart. The police smiled and told me to go on my way and have a nice holiday.

As I left the HO were trying to persuade the police to arrest me. I decided not to wait, but as I decided the HO said I would be charged. I wondered with what!

The next day I returned to the lay by and picked up my rig, I was relieved that it had not rained and that it was still there. What evidence can the HO have on now, nothing!

I guess I am a marked man now, but I'm clean and green.

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Not giving up 27 MHz

There has been much said about modellers giving up 27.

Twenty seven megahertz, what a frequency, why is it that out of a whole radio spectrum 27 is the one frequency everyone wants?

The true facts are and remain elusive, our society has built up a guarding system for our precious airwaves, known as the Home Office. Of course the odd crumb of information is sometimes thrown at the public. But on the whole, information is filtered to the man in the street by a slow, tedious and elaborate mangle of red tape, which leaves many thinking that perhaps the HO themselves don't know what's going on. Add to this the need for an international standard and God help you.

Modellers want 35 MHz.

Contrary to popular opinion among Cbers, modellers want an additional new frequency, they wish simply to be able to use 37 MHz where it is impracticable, due to interference to use 27.

Modellers and that includes Aircraft, Boats, Cars, Traction Engines, even Cameras or at least the apparatus to operate them remotely, want to retain their allocation of 27 MHz.

Should a new allocation be forthcoming it would be expressly for use by Aeromodellers. That is to say that if 35 MHz becomes available then there will still be modellers using 27 MHz for every conceivable model. Aircraft will also be flying on 27 in areas where the operator feels it is safe and free from interference.

So the myth that has grown, saying model control users have given up 27 MHz remains just that, fictional.

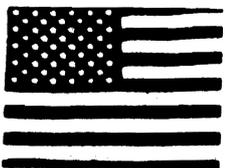
The frequency argument will continue for some time to come. The facts remain that if a new frequency is found and it is hoped by modellers to be implemented in time for the 1981 flying season, it will not mean that 27 is free and clear for CB.

There is however a hope by the HO and all interested parties that an International Standard Model control frequency could be used in Britain.

In several European countries this is 190 KHz (35.010-35.200 MHz) which is more than our Home Office have indicated may become available to model control. However the general feeling is that the British Radio Regulatory Department may issue this much of the spectrum in order to conform with European countries as opposed to the suggested 150 KHz offered.

Perhaps it is this aligning with Europe which has lead many Cbers to assume 27 MHz is being cleared for CB. We have even heard a strong rumour of licence applications being printed, though you can bet they're not for 27 MHz. If indeed they are being printed. Anyone work at Swansea?

Finally it should be noted that at present the Radio Regulatory Department are still issuing licences for modellers on the 27 frequency. However no further licences will be issued after December the 31st. Modellers will instead be covered by a general licence which will include metal detectors, garage door openers, model control and similar low power transmissions. This licence will reportedly be free and easy to obtain. In no way will it cover CB.



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Antennas and Transmission on CB Frequencies

by F.C. Judd, FISTC, MIOA, Assoc. IPRE. – Part 2

As explained in Part 1 it does not matter what frequency or frequencies are finally settled upon for CB (Open Channel) radio, antennas will be needed and the fundamentals of these and the propagation of radio waves are constant. All antennas behave in exactly the same way, for example a half-wave antenna or dipole for 27MHz functions in precisely the same manner as a half-wave or dipole for 900MHz or any other frequency. For efficient transmission and reception, *all antennas must be resonant*, i.e. tuned to the frequency of operation.

Wavelength v Frequency

The shortest length of conductor (antenna) that will resonate to a given frequency is one just long enough to permit an electric charge to travel from one end to the other and back again in the time of one cycle. If, as already explained the speed at which the charge travels is equal to the velocity of light (300 million metres per second) the distance it will have to cover in one cycle will equal to:

$$\lambda = \frac{300,000,000}{f\text{Hz}}$$

in which λ (lambda) is the wavelength in metres. Because the charge traverses the conductor twice, the length needed to allow the charge to travel one whole wavelength will be one half-wavelength. In practice this will be slightly less because of the velocity factory of the conductor.

The current and voltage distribution of a half-wave antenna (or dipole) is shown in fig. 1. When a charge reaches the end of the antenna both the direction and phase is reversed, so an alternating flow of current is achieved to the full cycle. The current and voltage are always in phase opposition i.e. when voltage is minimum the current is maximum and vice versa. Providing this state of resonance is maintained what is called a standing wave will be set up along the antenna. Because the current is maximum at the centre of a dipole antenna the impedance at this point will be low (about 72 ohms) which makes it suitable for direct connection to a co-axial cable having the same impedance.

Resonance

Antennas may be tuned to the frequency of operation by making them fractions of a wavelength, such as

a half-wavelength or, one or more whole wavelengths, depending on application. The physical length for resonance however, is not quite to an exact half or number of whole wavelengths because conducting materials slow down the velocity of radio frequency currents flowing along them. For example the commonly used antenna for both transmission and reception is the half-wave or dipole for which the resonant length formula is:

$$(A) \text{ Length (feet)} = \frac{492 \times K}{f\text{MHz}} \quad (B) \text{ Length (inches)} = \frac{5905 \times K}{f\text{MHz}}$$

$$(C) \text{ Length (metres)} = \frac{150 \times K}{f\text{MHz}}$$

where K = the velocity factor according to the length/diameter ratio of the conductor used to make the aerial and which for practical purposes is 0.95. The symbol f stands for frequency. Most resonant antennas have sufficiently broad tuning to operate over a fairly wide band and practice is normal to use the centre frequency of the band for calculation as well as practical operation. Taking the formula (A) as above, a dipole for the 27MHz band would be:-

$$\frac{492 \times 0.95}{27.15} = 17.2 \text{ feet}$$

A quarter-wave aerial for 27MHz would therefore be half the above i.e. 8.6 feet.

As a further example the length of a half-wave antenna or dipole for say 920MHz would be:-

$$\frac{5905 \times 0.95}{920} = 6.09 \text{ inches}$$

Any antenna that is resonant will operate efficiently for both transmitting and receiving but all antennas have another special property known as directivity.

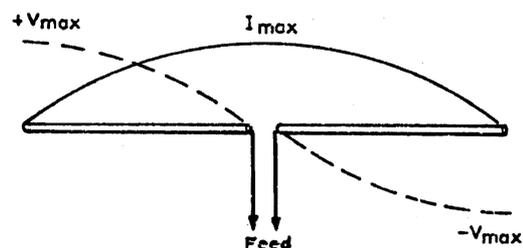


Fig. 1: Current and voltage distribution on a half-wave dipole antenna.

Directivity

The intensity of radiation from any antenna and/or its ability to receive signals is never the same in all directions around it and radiation or reception may be zero in certain directions. Although there is no antenna that will transmit or receive in every direction around it, it is standard practice to assume that such an antenna exists. This is purely hypothetical and is called an *isotropic* and which is frequently used as a standard for comparing the performance of other antennas. The radiation or pick-up pattern of an isotropic antenna would in fact be completely spherical and the antenna itself regarded as a point source. By comparison a half-wave (dipole) in free space has a transmission or reception pattern which if taken in all directions has a doughnut shape as in Fig 2 and which remains the same whether such an antenna is vertical or horizontal. *Free space* means a position at least several wavelengths above ground. If the doughnut shape pattern were cut in half we would see what is called the 'flat' pattern which is broadside to the antenna although this remains the same whether the antenna itself is vertical or horizontal. The directivity is therefore confined to two main directions. There is no response from either end of the antenna and in this mode the directivity is classified as, bi-directional. If such an antenna is vertical with respect to ground then the radiation/pick-up pattern becomes a complete circle so that directivity is the same all around. Such an antenna is known as omnidirectional. An actual pattern for a horizontal dipole antenna is shown in Fig. 3. However, what is important to remember is that if the transmitting antenna is vertical so also must be the receiving antenna and vice versa.

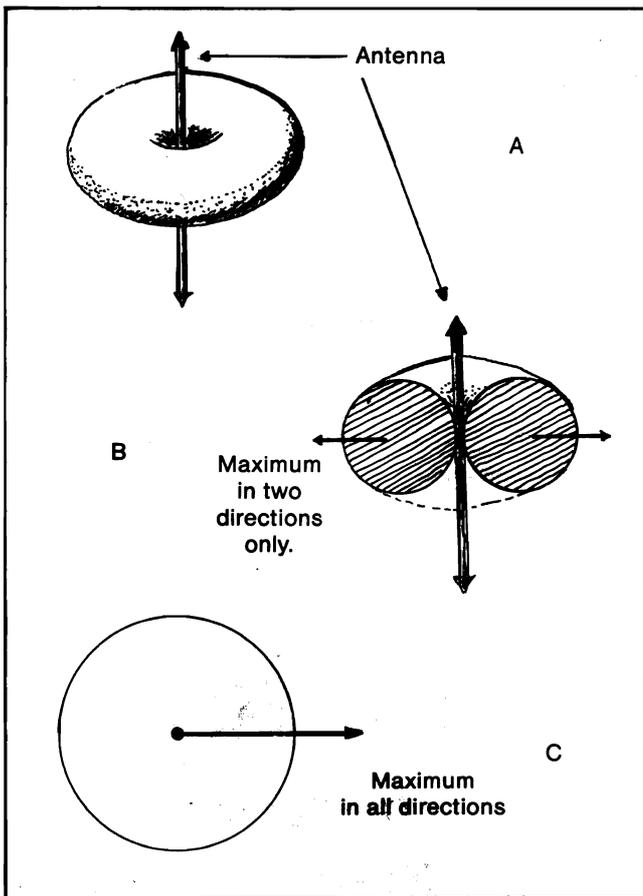


Fig. 2: (a) Solid configuration of radiation from a half-wave (dipole) antenna. (b) Radiation pattern when antenna is horizontal (see also fig. 3). (c) Radiation pattern (omnidirectional) when antenna is vertical.



Fig. 3: Actual radiation pattern from a half-wave antenna in horizontal mode. Taken from a polar pattern display unit and shows how intensity of radiation diminishes with distance.

All antennas with directive properties, and this includes the dipole, are said to have *gain*. For measurement purposes such gain is often related to the hypothetical isotropic antenna which is always assumed to have unity (0dB) gain because it would radiate equally in every direction. By comparison the gain of a dipole at maximum directivity as in fig. 3, is 2.14dB. The dipole is also adopted as a standard antenna in which case the *gain reference* is made zero or 0dB. Many manufacturers use the dipole as a reference antenna. For example a beam antenna may have a gain of 6dB over a dipole but which is in fact 8.14dB over an isotropic.

Gain in an antenna system is normally obtained by increasing the number of elements and such an antenna is called a multi-element array. The most common type of array employs a single driven element plus a parasitic reflector and a number of parasitic director elements and is therefore known as a *parasitic array* or beam antenna. With active element arrays *all* the elements are driven but such antennas are rarely used for VHF communication except by professional radio stations. However, simple active element systems are quite common and these are popularly known as colinear arrays, or simply colinears and are commonly used by CB operators. Both these and the multi-element beam type antennas will be discussed.

Polarisation

This is one of the most important factors of transmitting/receiving antennas and one which plays a major role in determining the distances over which communication by radio can be established.

The polarisation of an antenna is always the same as the direction of its axis when the distance is great enough for radiation to be considered as a plane wave. Polarisation simply means that the electric field is the same as the orientation of the antenna. Vertical antennas therefore, radiate vertically polarised waves and horizontal antennas radiate horizontally polarised waves as in figs. 4 and 5. Antennas that have a number of half-wave elements all laying in the same plane will have polarisation in that plane but if the antenna system consists of both vertical and horizontal elements radiating *in phase* then polarisation will be linear i.e. tilted between horizontal and vertical and which is commonly referred to as *slant* polarization.

Antennas and Transmission on CB Frequencies

If vertical and horizontal elements in an antenna system are fed *out of phase* then the polarization will be either circular or elliptical. Circularly polarised antennas are commonly used for space communication i.e. radio communication via satellites.

The polarisation of a radio wave can become changed during its travel and although this is quite common, particularly at VHF, it is not normally serious enough to warrant vertical to horizontal rotation of the antenna.

Polarization is however important with regard to working long distances on VHF. Investigation has clearly shown that horizontal polarization is far superior because horizontally polarised radio waves are far less subject to path attenuation and fading, particularly when tropospheric and similar 'lift' conditions prevail. Over a parallel to ground path, signals that are vertically polarised suffer a high rate of attenuation and are also

greatly affected by phase change. Vertical polarization is on the other hand widely used for convenience, for example for mobile operation and which necessitates the use of omni-directional (vertical) antennas.

The next article will deal with some of the more practical aspects of antennas for operation in the 27MHz band as well as VHF bands up to and including 900 to 1000MHz.

NOTE: Antenna gain has already been mentioned once or twice and which has been referred to in the standard unit—the decibel (dB). It should be mentioned that whilst the unit 'dB' is commonly used it is more usual when referring to the gain of antennas to quote such gain with respect to either the hypothetical isotropic antenna or the standard half-wave dipole. Gain with respect to an isotropic is normally given as dBi whereas gain with respect to a dipole is given as dBd.

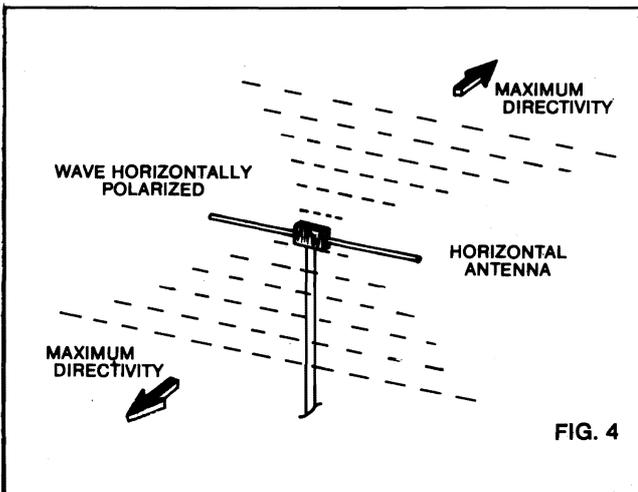


Fig. 4: A horizontal antenna radiates waves which are polarised in the same plane as the antenna itself i.e. the wave is horizontally polarised.

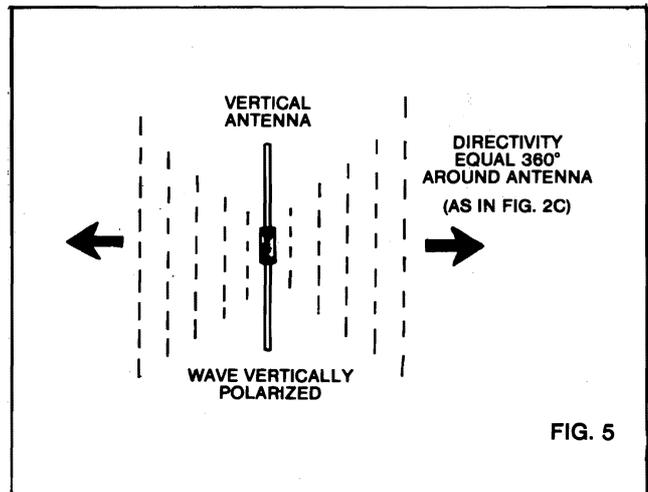


Fig. 5: A vertical antenna radiates waves that are vertically polarised.

CB & Truck Stop

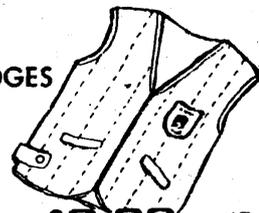
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News Review



A look at what the papers say.

The national daily papers rarely cover such a mundane subject as Citizens Band Radio.

Unless someone has been raped, murdered or arrested and spectacularly accused of a despicable crime. Then it's not news. If it doesn't fall into any of those categories then it's not sensational enough. But the smaller local papers are full of CB, some with just a small mention, others will full scale stories.

South Wales Argus. 'front page' Illegal Radio Users help in police hunt

An assault and a robbery at a petrol station had taken place and the description of the vehicle was circulated to around 30 breakers in the Newport area. They hunted for the vehicle for most of the night. Unfortunately they did not have the description until an hour after the robbery and the search proved futile. The article took up a good deal of space on the front page so this paper is well aware of CB and its potential.

Doncaster Gazette. Why Lord Muffield is a banned citizen.

The Don Valley Breakers had obviously been chasing a bit of coverage and got it with a nice photo and a good bit of text, their situation was put over clearly. They don't like 928 and believe CB can save lives.

Phil Ascough didn't get caught up in the slanguage and pushed their views 'clear and green' (sorry) clearly. Evidently the Don Valley Breakers also operate a ban on transmitting near the 'Doncaster Royal Infirmary', thus avoiding any possible complaints of hospital paging interference.

Paisley Daily Express 'front page' Radio Pirates appeal to local MP for help.

The Renfrew and District Citizens Band Association swooped or is it scooped this front page, nice one lads, William Rodden one of the Associations organisers should be pleased with that.

One point he raised is that in this time of Government cut backs, how is it that Home Office officials can cruise around all night with expensive equipment just to bust one user. Their chairman Robert Mitchell said he wants to get rid of the

image many people have of 'Cowboys with radios' and said that their members come from all walks of life.

The report by Eric Wishart had followed the clubs lobby of their local MP Mr. Norman Buchan, his answer was that he was sympathetic and would study CB in detail, he commented. Quote "I am all for developing interesting new concepts, these enthusiasts have asked for my support and I shall now investigate the arguments for and against before taking a firm line on the issue" Unquote.

Evening News Worcester. Some day they'll get the message!

You could probably guess from the papers name which club got this coverage, 'The Worcester 19 Breakers Club', they

have over 500 members and have according to the article by Mike Price, recently set up a 'lynch law'. Reportedly if an offender namely a breaker who swears on the air is unfortunate enough to be apprehended by another club member, then he is liable to find his rig sledgehammered, thus cleaning up the airwaves.

Pretty hard line stuff eh! I bet the airwaves are clean in Worcester.

The article went on to cover the present situation and put the Breakers answer to the governments proposed 928 MHz as the authorities trying to out price the CB facility by offering a system that would cost around a thousand pounds as opposed to the present illegal 27 equipment.

Kent Messenger Maidstone CB Club Men Caught.

Paisley Daily Express

FIRST WITH THE LOCAL NEWS

MONDAY, October 13, 1980

Illegal Citizens Band craze sweeps the Paisley area

RADIO PIRATES APPEAL TO LOCAL MP FOR HELP



William Rodden, Paisley MP

MORE than 600 new jobs are about to be created in the Paisley area.

At least 25 of them will be filled during the next few weeks as the new factory opens its doors to a new wave of workers at the Paisley Chemicals plant.

And about 70 more are expected when a £10 million extension of the plant is completed next year.

Shoppers taking a holiday in the Paisley area should be aware of the fact that the new factory is a major employer in the area and is expected to create a large number of jobs.

Oxfam launch new plea for aid

PEOPLE in the Paisley area are asked to help Oxfam by donating their unwanted clothes and household goods to help the needy in other parts of the world.

COUSIN

THE district council has agreed to fund a new project to help the unemployed in the area.



Bill of the District Citizens Band members in action at a local event.

MORE THAN 600 local radio operators are breaking the law for a craze which is sweeping Britain.

They are urged Citizens Band radio for the Government to provide the Government to legalize their hobby. Members of the Renfrew and District Citizens Band Association have written to Mr. Norman Buchan asking for his support.

Party killer gets life

A 28-YEAR-OLD barmaid has been jailed for life at the High Court in Glasgow.



The barmaid who was sentenced to life imprisonment for the murder of a man.

Millions watch Scot Nat on telly

SEVERAL million people are expected to watch the Scottish National Party's election campaign on television.

Home plan

THE district council has agreed to fund a new project to help the unemployed in the area.

CLUNIE REFLECTS ON THOSE MISSED CHANCES

SAINTS manager Jim Clunie has reflected on the missed chances of his team in the recent match.

DETAIL

DETAILS of the election campaign of the Scottish National Party are being broadcast on television.

Home plan

THE district council has agreed to fund a new project to help the unemployed in the area.

Colin McKay of the Mid Kent Citizens Band Club was fined £70 along with two other members of the MKCBC, Barry Potter and Stephen Bell who both managed to pick up the same fine. The fine was made up of £25 for installation of a tranceiver, £25 for transmitting and £20 court costs. The three tranceivers were confiscated by the court.

It appears that the three members had been tracked down by a Radio Interference investigator. He tracked the CBers as they were having an eyeball in the centre of town near the Royal Albion Pub and gained assistance from the police to detain them.

Their representative in court said in his plea for mitigation, Quote "These are not serious offences by any standard. There is encouragement not only from the Government and the press but from a large consensus of opinion. This is not used as an excuse but it does mitigate to an extent." Unquote.

The members themselves said afterwards that they were pleased with the results. Quote, "Magistrates seem to have a more sensitive view towards us now they realise that CB is coming and they are taking a more lenient view towards it." Their publicity officer continued, "They know it's going to be legalised and must be getting fed up with cases taking up their time."

Evening News Bolton Bouncer will help keep the air clean.

A shall we say 'vigilante' type organisation policing the airwaves has been started and accepted by breakers and clubs in the Wigan area. The report by Joan Quillinan explains that the UBA members have set up a mobile monitoring service known as 'The Untouchables'. They have a specially equipped car with direction finding equipment and they intend to keep 27 clean.

The club hopes to allay fears that giving the public two way radio will result in abuse by prostitutes and villains. Of course any 10-33 calls would also be monitored and dealt with informing the appropriate emergency services. CBers abusing the airwaves would also be tracked and reprimanded by the Untouchables.

Cumberland Evening News & Star.

Eyeball to eyeball with the Breakers.

This followed an earlier report of a 200 car demonstration that had joined the city. We were unable to report on this demo because the Carlisle Truckers Club didn't let us know it was happening. K'sera Wonder if they have ever head of this mag? Anyhow they managed to create quite a stir with coverage in the 'Cumberland News' as well as a double feature in the 'Cumberland Evening News and Star'.

The demo itself started at Hilltop Heights at 2 p.m. and ended some 35 minutes later at Dacre Road. Evidently the town was clogged solid for an hour after the CBers had dispersed. Maximum effect was created by using large trucks spread out through the procession.

But back to the Eyeball to Eyeball, the reporter Gerard Henderson had followed up the demo report by meeting a few breakers and cruising around with them one evening. They introduced him to CB and arranged for him to meet other CBers by way of an eyeball in Cannock Town

near Wolverhampton. From his account he seems to have been suitably impressed by CB and soon took to the mike himself. He related in his article stories of CB's triumphs, the rescues that had and could save lives. Evidently Beer Mat took him for a run to the Midlands in his truck and the intrepid reporter learnt more of the comradeship of CB and the monitoring services that the Carlisle Breakers operate.

Crawley & District Observer. Smokey Bear gets a helping hand from Juggler & Co.

Emergency services were called to a crash on the M23 just outside Crawley, the alert was raised by Citizens Band operator 'Juggler', he heard a 10-33 from 'Money Boys' and called the appropriate services. Both drivers were taken to hospital with minor cuts and slight head wounds.

This emergency report was featured just five days after the Brighton Demonstration to legalise CB.

CB CLUB MEN CAUGHT

Radio enthusiasts must pay the price

THE director of a Maidstone shop for Citizens' Band radio enthusiasts was one of three people who faced the town's magistrates.

Colin Mackay, 25, of High Street, Charing, pleaded guilty to installing a tranceiver in a car and was fined £25. Mackay, who runs the Ten-Four Shop at The Broadway also admitted using the tranceiver, and was fined £25 with £20 costs.

Also before the court, which was packed with CB enthusiasts, on Wednesday was Harry Potter, 33, of Egerton Road, Maidstone, who admitted charges of installing a tranceiver and using it.

He was fined £25 on the first charge and £25 with £20 costs on the second. The third member of the Mid-Kent CB Club before the court was freelance computer programmer Stephen Bell, 33, of Bramley Crescent, Maidstone.

He pleaded guilty to charges of installing and using a tranceiver, and was also fined £25 on the first charge, and £25 with £20 costs on the second.

REPORTS: PETER HALE
The three radios were confiscated by the court. Alan Smith, prosecuting, said the three men had been interviewed by a Post Office investigator in a car park near the Royal Albion pub, Maidstone, on May 4.

Assistance
The investigator had been checking radio interference in the Maidstone area, and had found strong signals coming from the bridge in the town centre. He identified the source of transmissions as three cars. The drivers were arranging a meeting.

The cars were later driven to a car park and while the three men went into the pub nearby, the investigator had obtained assistance from two police officers.

At first Potter denied the radio in his Cortina belonged to him and said he had not paid for it. He

later admitted that he had obtained it two days previously. Mackay said he had obtained the set in his car from a lorry driver six months previously. He admitted installing it and using it that night. Bell admitted the set in his car belonged to him.



Members of the Mid-Kent CB Club show their support for Harry Potter, left, Colin Mackay and Stephen Bell after their appearance before Maidstone magistrates.

STRONG SIGNAL?
THE publicity officer of the Mid-Kent CB Club said he was quite pleased at the result of the Maidstone court case. "Magistrates seem to have a more sensitive view towards us now," he said. "They realise that CB is coming and they are taking a more lenient view towards it. "They know it's going to be legalised, and must be getting fed up with cases taking up their time."

and said he had bought it off a man in a Clapham pub. At first he said it was not in working order, but later admitted using it. Anthony Bishop, appearing for Mackay and Potter, said the Govern-

ment was committed to legalising CB. "These are not serious offences by any standard," he said. "There is encouragement not only from the Government and the press, but from a large consensus of opi-



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Wally of the Month

We are taking a leaf from the F.B.I. and the S.B.S.'s book.

Many readers will know by now that I reside in West London. The S.B.S. (Silly Breakers Society) and the F.B.I. (Friendly Breakers Incorporated), we are not sure who was first, have an award known affectionately as the "Wally of the Week". Well, having seen an article in the North Wales Chronicle, I couldn't resist my own 'Wally of the Month' award.

The article was entitled 'Hand me a megaphone. I want to condemn noise!' Now I don't read this paper but it seems that a regular contributor is 'The way I see things by Insider' (No, that's not his handle). Well our dear old stuffy writer chose the same week to write his condemnation of CB as the rest of his literary colleagues were giving CB a thumbs up.

You see the Institute of Journalists has written to the Home Office favouring the introduction of Citizens Band Radio. Quote, "A most useful tool for reporters, provided the system has an adequate range in urban areas." Unquote.

Insider - His view.

Starting with a reference to the Romans managing without television, and transistor radios and the older generation remembering the grace of radio. Our Insider continues and argues that the intrusion of modern stereo record players and tape decks along with transistor

radios are nothing more than a babble brought into ones life with the worst bad taste and vulgarity, dinned into ones ears, whether we like it or not. The right to abuse our ears is a freedom more precious than liberty itself. Strong stuff eh!

Now he turns his attention on the true reason for picking up his pen. He informs the reader of the existence of an Anglesea Club campaigning so that anyone who can afford too, may have the right to use CB. Quote "So far the Government has resolutely declined to put John Public on the air, despite a growing lobby that seems to squeal loudly enough without benefit of microphones and transistors for the right to pollute the other with yet more jabber." Unquote. Even stronger stuff!

Our illustrious journalist continues that he is well aware that one does not need to participate and that special equipment is required before one can receive this 'babble' but Quote, "I wonder why any further strain should be placed on already overcrowded airwaves to permit the kind of lunatic, puerile and downright boring rubbish that incessantly litters for example, the citizens band in the USA." Unquote.

He argues that it should be significant that in Britain the emergency services

are unanimous in denouncing the harmful effect CB would have on the operation of their radio communications system and that if there could be any benefit would they not be first in line clamouring for legalisation.

But this is not the only reason he says, Quote, "I am against it on the general principle that there is more than enough rubbish on the air from professionals without allowing any amateur bore with the price of a set to get in on the act." Unquote. Ah! now we have it the R.S.G.B. refuse your admission and you hate amateurs!

As a final comment before rambling off into the condemnation of pop music our bold outspoken author adds this quote, "Angelsey enthusiasts have the right of course to campaign for Citizens Band Radio. It is their title and privilege. It is mine to tell them exactly what I think of the idea. Rubbish!"

The Outsider

It is now my privilege and may I say pleasure to inform our Outsider that he is definitely an Outsider. Perhaps next time he will gen himself up on a subject before expanding yards full of sheer unadulterated crap!

1) The government favour the introduction of CB.

2) Emergency services do not condemn this introduction, quite the reverse.

3) The frequency argument will continue but in no way can the spectrum be deemed as "polluted with jabber".

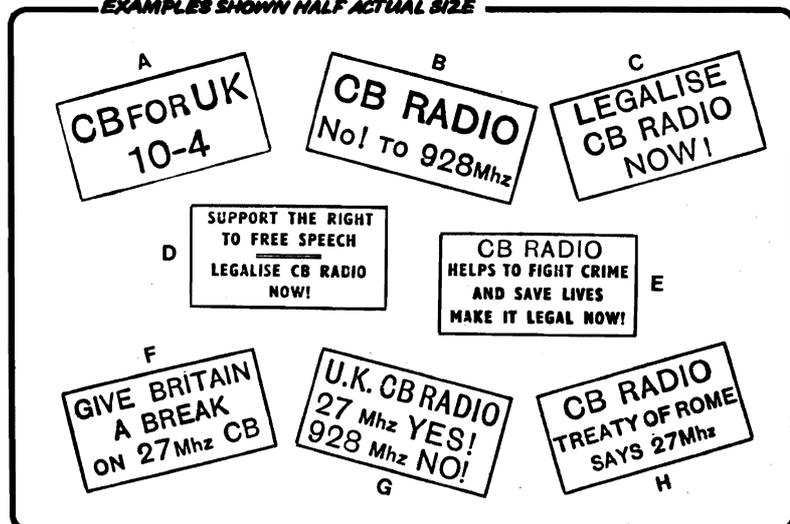
No Outsider the only thing polluted with jabber is your article. JOH.

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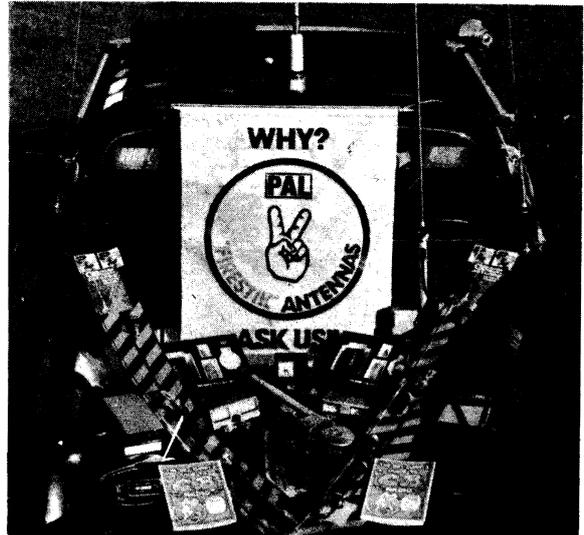
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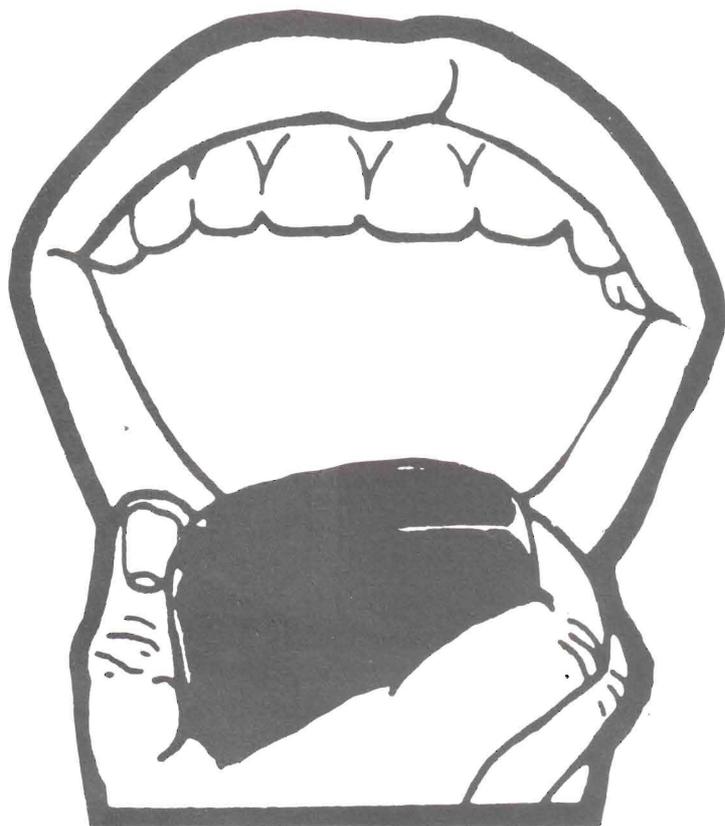
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900 MHz Out of Court Settlement

Marvin T. Tunis of NASCAN (National Affiliation of Sideband Clubs and Nets.), answers Richard Vincents article from last month with his own fears.

I recently received a copy of Richard Vincents article, "900 MHz, The Known and the Unanswered", as printed in your issue 5.

I found the comments made of extreme interest, many readers may not be aware that I actually began an in-depth study of the 900 MHz issue during January 1979. This study ultimately resulted in the writing and distributing of a paper entitled "Facts vs. Fiction about 900 MHz", which I believe will be printed in full next month (issue 7). But for now I will summarise, there are three major problems which we documented with the 900 MHz proposal.

1) Cost of Equipment

Estimates indicate that here in the USA the price could easily be in excess of 1,000 dollars.

2) Effective Range

Utilising various amounts of power up to 25 watts, this has still been limited to less than 5 miles.

3) Potential Health Hazards

Far too numerous to mention in detail. However referring to Richards article, you are obviously aware of some of the problems. It is on this last subject that I now dwell, Richards discussion of the results achieved using a "phantom" model of the human skull appears to be taken

from the Motorola study. I obtained a copy of this earlier in my research project.

I began to seriously question the credibility of the study, after being informed of a 450,000 dollar law suit filed against Motorola by Tony Carlin/Joseph Schmitt of Oak Park, Illinois, charging "body damage" created by excessive radiation at 800 MHz.

In a later conversation with Tony Carlin he informed me that Motorola had offered an out of court settlement in excess of 200,000 dollars. At that point I began to question further the validity of the Motorola Radiation Study.

Increased Concern

Four recent occurrences have increased my concern regarding this issue.

1) On the 19th of December 1979 the FCC's OPP representative said at this meeting, "I think there is a beginning of a commission policy to get some people out of 27 MHz, admittedly a long, long term policy."

2) Jim McKinney, recently appointed Chief FOB told one of my associates in a telephone conversation, "The only modification of the CB service I will support is 900 MHz."

3) Leo Sands a well known writer here in the states said in his editorial in CB Magazine (USA), "There is strong opposition from some who feel that the people do not deserve a new radio band because of the chaos on the existing 27 MHz band". This comment would indicate to the uninformed radio user that some Federal bureaucrat was preventing their re-location to a radio utopia, which is I feel about 180 degrees from the fact.

4) Finally, recent comments from the HR report indicate that several Western European countries have urged the allocation of an "Internationally recognised VHF CB service", and that this internationally recognised service may be located at 900 MHz. In consideration of Great Britains proposal to legalise CB possibly at 900 MHz or over.

As you may have guessed, I am greatly concerned about the problems of 900 MHz, and its predicted effect on the current 27 MHz service. Richards article provided some interesting information and I will look forward to hearing from him again. This is a worrying subject and deserves great discussion and airing.

MARVIN T. TUNIS,
National Co-Chairman, NASCAN.

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The Happenings Brightons on the Move Again

Once more the residents of Brighton were reminded of Citizens Band.

Brighton has over the last year had its fair share of publicity. Signs of the 'Athena B' still remain with cafes named after her, souvenirs of her and even postcards that display proudly the 'Athena B' as she lay aground bearing her bottom to the world. Perhaps bearing is not the best choice of word in light of the more recent publicity. I refer to the nudist beach where other things are 'bared'. Now here I could be even more corny but I am not going to insult Brightons residence further with a reference to 'Bears' and breakers. Suffice to say, that is left up to you and the odd tourist who wondered what breakers stood for on the 'Bright Breakers Banner'.

Everyone comes to Brighton

Chilly but sunny, everyone was in good spirits, there was a neat customised Bucket T on the flat bed of a Bedford Truck, this was to follow an orange Pontiac at the head of the march. Talking of which, once underway almost everyone seemed to be at the front. Excuse my exaggeration but as I stood atop the GPO post box gaining height for my photograph, (see Buzby is good for something), I had to wait for all the leaflet handing, budding stars at the head to let me have a good view of the Bedford. Not that I mind, you all did a good job and who cares if you get in the photo, after all it's your magazine.

A couple of local residents remarked that everyone comes to Brighton, why can't they march somewhere else. No sooner had these words left their lips, then one of our leaflet handing stars pounced, and they were soon left in doubt that the demo was by locals.

The police escort were reluctant to hold up the traffic and as a result the march took one lane and the traffic passed using the other. This worked fine until the procession turned into the square and a bus decided to join in the march along with two or three cars.

The column was now in two halves and it took quite a while before the police actually stopped the bus and let the rear half catch up. Undaunted by this, the march and the famous chant went on.

A family standing near me on seeing a Union Jack remarked 'The Bloody National Front' and were soon eating their words as our stars descended yet again. Once informed of what CB was and that it was illegal, the couple were heard to remark, 'Britain is always last with everything especially when it's good.' Now wouldn't it be nice if some of the lads in Whitehall could hear that sort of remark coming from what they statistically call Mr. Average with his 2.4 children and his semi-detached, with garage and one car, family. That's what makes up the voters.

No Tannoy

The procession was coming to the end of the square or is it the 'circle', here the demo ended in the park. The four hundred that had started had now dwindled to just over three hundred, perhaps some were still left behind the bus. Anyway most of the CBers congregated at the end to be addressed by the speakers. They were thanked for the donations to the Hamilton Lodge School for the Deaf. I should have explained that some five one gallon paint cans had been carried on the march, the



The Brighton Breakers produced a very good turnout for this their second big demo.

slots in the top were large enough for notes and evidently quite a few people had taken that hint along with their loose change.

The speakers started with the tannoy but were soon told to use their voices as the demo had officially finished and you need a licence to use a tannoy in a public place, this got an enthusiastic boo for the officer and one or two remarks, 'there's not much you don't need a licence for in Britain' followed by 'except CB, they won't give us one even when we ask.'

The speakers were:

- Mr. Jack Hibbard- Les Routiers.
- Blue Shark - Secretary of the Brighton Breakers.
- Miss Moore - Hamilton Lodge School for the Deaf.
- Peanuts - From London.
- Birdie - From Crawley.
- Tricon - Carshalton and Whisky Breakers.
- Vulture - South Birmingham Club.
- Duke - Guildford City Breakers.
- Horizontal - From Leicester.
- Microdot - 27 Club.
- Gentleman John - Hastings.
- Wallaby - South Coast Area Breakers.
- Quasimodo - Oxford Breakers.
- Penny Black - Chairman of the Brighton Breakers.

The last speaker used the tannoy saying he was an unlicensed CBer and he might as well break another licenced transmission by using the megaphone. This

raised a cheer and he thanked them all for coming.

Personally I would say that the Brighton Breakers have got it together and with a turnout almost matching the last UBA London demo (see issue 5), Brighton can certainly be left in no doubt of the support for CB.

As a final note I talked to one police motor cyclist who claimed he had personally witnessed interference on his police radio. He told us that last Bank Holiday he positively identified the interference as CB orientated and that it did interrupt a police transmission for a few moments. The only inconvenience he found with

CB was that the interference if any was not in one particular place. By this he meant that all the officers on the force know that transmitting near one of Brighton's mini-cab companies you will receive interference from them but that their base is stationary and the source is known and avoidable.

Whereas a CBer could be anywhere in the town and one could not be aware of the area and thus unable to avoid any interference arising. As a last comment he said that legalisation would he hoped standardise equipment and presumably with correctly installed and standardised radios, interference would rarely arise.

JOH.



Lead by a flat bed truck the breakers marched into town

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Down Downing Street

A petition was recently handed in to No. 10.

Six people travelled down from Runcorn, where's Runcorn we hear you ask! They call themselves the Red City Breakers and Runcorn is in Cheshire not more than a shortish drive from Liverpool.

Ahah you say, all is now clear. Red City boasts a small tight knit community of CB'ers and all 250 members signed a petition asking, or should we say demanding, you have to be forceful in this don't you, the legalisation of 27 MHz Citizens Band here in Britain. This petition was backed up with a copy sent to the Home Office along with a letter rejecting 928 and explaining why the Red City Breakers want 27.

Disco One (Andy Donovan) of the UBA to which the Red City Breakers are affiliated arranged that their petition could be handed in to Mrs. T. Two delegates namely Disco One and the Red City President Charlie II were allowed to present the folder containing their demands. But as they approached or should we say were about to approach, the Iron Lady herself came out and got into a waiting car.

Disco One wasted no time in holding up the folder with a sticker on it saying 'Legalise CB'. Our Iron Lady could not miss this, there being no more than three feet between the folder and her window. Good fortune was with Andy for as the P.M.'s window drew level with Andy, the car halted and Mrs. T. was allowed to take a long look, which she did before the car pulled away.

Andy was perhaps the only one close enough to see the Iron Lady's response, he claims it was a smile with a slight thumbs up gesture.



Disco One and the Red City President with the petition at No. 10.

CB. CB. CB.



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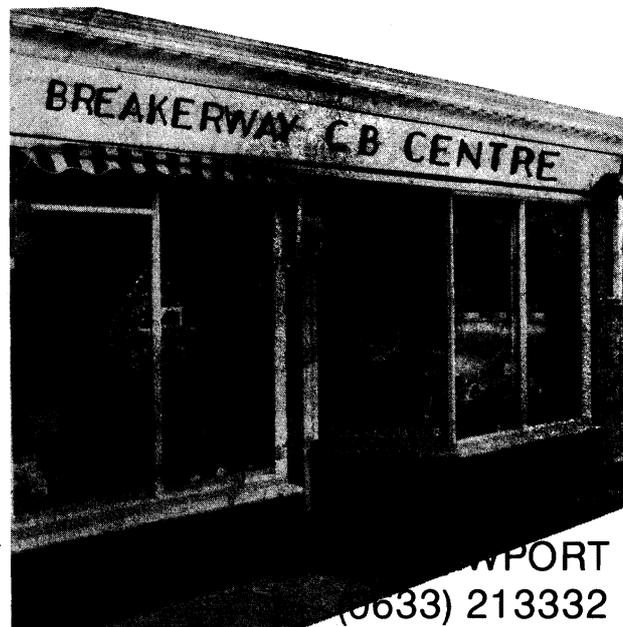
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CB Independence

The Record

A record by C. Meikle/R. Stokoe, inspired by Richard Town, (now Chairman of the NCFL).

CAVALCADE RECORDS have produced "CB INDEPENDENCE", which has been adopted by The National Committee for the Legalisation of Citizens Band Radio for the legalisation of CB Radio in the United Kingdom.

The record came about after Richard Town, G.L.C. Councillor met John Fogarty - Director of Cavalcade Records and Richard (being a member of the Committee) suggested "why not make a record". Thus "CB Independence".

The Project

Right from the start we decided that any project we were going to get involved in would have to involve the making of an authentic record which would stand up on its own merits. For this we needed a good producer, Ron Liversage, a well known figure in the music industry and country music for over ten years agreed to undertake the project. In his time, Ron has been associated with many important country artists and indeed administers the catalogue which contains compositions by one of the foremost country artists in the world - Don Williams.

Ron decided to 'beef up' the sound of 'Roadrunner 10-4', (aka Chris Roberts Band) by introducing a pedal steel guitarist - the legendary B.J. Cole, and in addition one of the foremost female vocalists in the UK agreed to do the back up vocals on the understanding that she would remain anonymous. Richard Town, GLC member for Bexley, Erith and Crayford, joined the group for this session and plays rhythm guitar.

However sound and ability alone are not good enough in the competitive record market, other factors and especially sleeve design are of major importance. Designing a sleeve which could be both eye-catching and at the same time synonymous with the product which it is promoting was neatly put to B. Clough, one of the foremost sleeve designers. He agreed and was brought in to design the sleeve.

All these factors cannot guarantee a hit record and it is the public's job to respond to both the cause of CB and also to the record.

The record was released by EMI on their label in October, however a limited number of Cavalcade label copies were reserved by us for breakers requiring what could become a collectors item.

The Lyrics.

ALL THE GUYS WANNA TALK TO EACH OTHER
WHILE THEY'RE TRUCKIN' ON DOWN THERE MUST BE
ANOTHER REASON WHY THEY SAY YOU CAN'T DO IT IN THIS LAND
COULD BE THEY HAVEN'T YET FOUND A WAY TO TAX IT
SO IF YOU'RE CAUGHT NOW HELL THEN YOU'RE GONNA CATCH IT
IN THE MEANTIME LAY OFF THAT 27 BAND

CHORUS

WE WANT C.B. INDEPENDENCE
C.B. INDEPENDENCE
WE AIN'T LOOKING OUT TO DO NO CRIME
WE JUST WANT C.B. INDEPENDENCE
C.B. INDEPENDENCE
WE AIN'T LOOKING OUT TO DO NO CRIME
WE JUST WANT C.B. INDEPENDENCE
C.B. INDEPENDENCE
LETS GET THIS MOTION ON THE LINE

NOW DOWN IN THE CITY THEY SAY WE TAKE YOUR POINT
BUT THIS IS ENGLAND YOU KNOW NOT JUST ANY OLD JOINT
WE'LL PUT IT TO THE COMMITTEE AND SEE WHAT WE CAN GAIN
WELL YOU CAN BET BOYS IT'S GONNA BE VHF
YEH TAKE OR LEAVE IT OR WE'LL PUT IT ON THE SHELF
OTHERWISE YOU MIGHT WRECK SOMEBODY'S MODEL PLANE

CHORUS

SO GIVE US C.B. INDEPENDENCE
C.B. INDEPENDENCE
WE AIN'T LOOKING OUT TO DO NO CRIME
WE NEED SOME C.B. INDEPENDENCE
C.B. INDEPENDENCE
LETS GET THIS MOTION ON THE LINE

AAH 10-4 THERE
KEEP RIGHT ON TALKING TO ME GOOD BUDDY

WELL NOW I MAKE SOME FUN ABOUT THE C.B. STRIFE
BUT I THINK WE ALL KNOW THAT IT COULD SAVE A LIFE
SO LETS PUT THE PRESSURE ON AND GET IT THROUGH
YEH AND MAYBE SOMEDAY WHEN WE'VE GOT OUR WAY
HELL WE'RE EVEN GONNA HEAR A POLITICIAN SAY
C.B. OK

CHORUS

C.B. INDEPENDENCE
C.B. INDEPENDENCE
WE AIN'T LOOKING OUT TO DO NO CRIME
WE WANT SOME C.B. INDEPENDENCE
C.B. INDEPENDENCE
LETS GET THIS MOTION ON THE LINE

GIVE US SOME C.B. INDEPENDENCE
C.B. INDEPENDENCE
WE AIN'T LOOKING OUT TO DO NO CRIME
WE WANT SOME C.B. INDEPENDENCE
C.B. INDEPENDENCE
LETS GET THIS MOTION ON THE LINE
YEH WE NEED SOME C.B. INDEPENDENCE
C.B. INDEPENDENCE

Words and music by CHRIS MEIKLE/ROB STOKOE

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138 New Bond Street, London W1Y 9FB. Tel: 493 5051



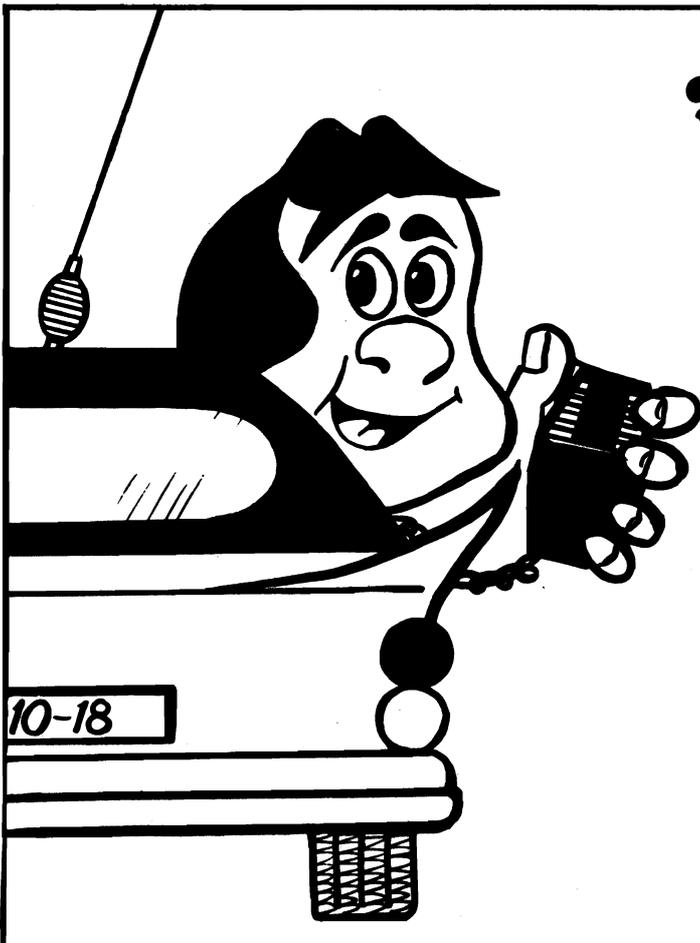
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Come Back the Breaker

One nine, one four, zero five, two five, anyone!

Of course as a publication we like to think that we can help. The problem is we can't help you at all. I mean look at it like this, you are not supposed to exist so how can we ask you what channel you break on. In our wisdom we have decided to get ready for legalisation. Isn't everybody hiding under that cloak.

Assuming that any legal form of CB has, oh shall we say just off the top of our heads, about forty odd channels, then which channel would you use in your area to establish initial contact.

Internationally zero nine is accepted as the emergency channel. But as Britain is always one different you can't even take that as read.

However those illicit users of 27 should note that REACT and other stateside emergency services do use 09 and they have had interference from skip. A couple of lads in Britain with a pair of walkies made a right mess of their monitoring system, so let's discount zero nine and invite you to send in your suggestions.



British Mobile

Hi, if any breakers out there have actually taken the trouble to get some QSL cards printed, well then how about a QSL. Most of my locals know me pretty well and I enjoy a good chin wag on the old airwaves. I must say it seems sort of daft that it is illegal to talk on this little box, but what the heck. As you can see from my card I live in Surrey, I run a President Adams most times, so when the atmosphere is right you'd find me on the old Sideband.

I decided to collect a few QSL cards a month or two back, most Cbers seem really friendly and as I always reply to their cards I now have quite a few friends not just QSL's in my collection.

Keep it clean. 72's & 51's.
Jim Galvin. Surrey.

The UBA Membership Fee

It has come to the attention of the secretary of the UBA at the London HQ, that some people have been charged more than one pound membership.

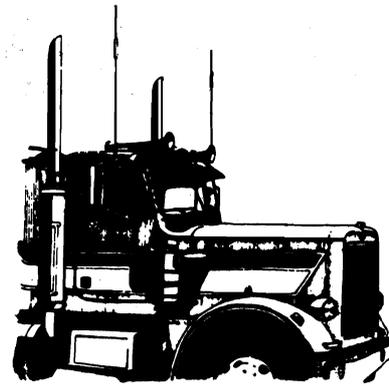
Membership of the UBA (United Breakers Association) is only £1.00 and is designed purely to cover our running costs. This membership fee was set from the 13th of October onwards and anyone who has been charged more than £1.00 should contact the President Disco One, who will take steps to eradicate this procedure.

You can contact Disco One on 01-720 7468 or the secretary on 01-582 9479.
73's & 88's, WONDERWOMAN.
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Readers Write

Dear Ed, 10-44,

As a serving Police Officer, I was not at all impressed by the article in the September issue entitled, "The Law and You".

Your 'solicitors' state that "There is no right of arrest for the offence of using or possessing a CB tranceiver."

Have I got some bad news for them! By Section 66 of the Metropolitan Police Act 1939, "Every constable may stop, search and detain any vessel, boat, cart or carriage in or upon which there shall be reason to suspect that anything stolen or unlawfully obtained may be bound, and also any person who may be reasonably suspected of having or conveying in any manner anything stolen or unlawfully obtained." As CB tranceivers are smuggled into the UK, they become goods 'unlawfully obtained.'

"Detain" for the purpose of this means "arrest". This act only refers to offences within the Metropolitan Police district, but as far as I know other police forces all have similar acts and powers.

I would also like to draw your attention to the Customs and Excise Management Act of 1979 which provides that Customs and Excise Officers and Police, upon reasonable suspicion may stop and examine any conveyance, (boat, car, lorry,) to ascertain whether it contains smuggled goods.

The piece in the article that has really upset me is the rubbish about, "if they can't get you on one thing, they will get you on another" type of attitude. You have made reference to the 'Sus' law, this law is already widely misunderstood by the press and your article has done nothing to help. Mention was also made about the power of arrest under the Anti Terrorist Act . . . I would get yourselves a decent company of solicitors if they have to deal with anything more complicated than a parking ticket, as it is obvious to me that they are well out of their depth when it comes to the law regarding CB's.

Oh well, apart from those gripes, a good magazine, but how about some tests on equipment and some simple circuits for stuff like 'bleeper breakers' speech processors etc. (The tests would have to be carried out in a place where CB is legal.) (i.e. anywhere where you don't get caught).

10-10

The Klansman, Hounslow.

P.S. Apologies to "Big G" of the Wembley 20, it wasn't my fault.

Rather than answer with a long reply we must apologise for the "They'll get you anyway attitude" Section 66 can be interpreted clearly? see our "The Law and You", and yes you are right it is hard to find a solicitor genned up on CB but then there are also few officers genned up ED

Dear CBRM,

Since becoming aware of CB and its ardent following, I have heard arguments both for and against CB legalisation.

I myself am confined to a wheelchair and often find myself driving late at night on empty roads. Being incapacitated, (only the legs), there is always the fear of noticing unwelcome sounds coming from under the bonnet. My rig gives me a feeling of security as I would find it extremely difficult to get to

a house or a land line to call for help and therefore a CB is a very welcome addition to motoring for me.

Surely this would be an extremely strong argument in favour of 27 MHz.

Best wishes to all the Whiskey Mike Breakers. This is 'Hawkeye' from the graveyard going down. Breaker Break. Bye Bye.

Dear Sir,

I was a bit late in receiving your issues as I am 400 foot below an Oil Rig in the North Sea. I have been breaking in my home 20 for 10 months now and it's by far the best toy I've bought.

I disagree with the idea of moving up the 928 frequency. Let's all us good buddies put pen to paper for good old 27 MHz and forget person to person crap which 928 MHz is, (don't think you'll print that).

Anyway wish you all the high numbers. 10-10. Muff Diver taking a dive.

Muff Diver, Glasgow.

Dear CB Mag Readers,

Reading Suzie Q's article "Do Seatcovers and CB mix" got me thinking about us 'crumbsnatchers' and CB.

When I first came on channel my mum and dad wouldn't let me talk in case I "gave too much away". In fact I knew more about the situation than they did. One breaker told me if there was an 'O' level in CBing I would pass with flying colours.

Many young breakers in my area are not allowed to use their CB without an adult present and then only for a short time.

Many breakers won't talk to us if they know we are 'crumbsnatchers'. One young girl was on the air for three weeks before anyone would speak to her. In fact the first person to speak to her was me.

Adult breakers disappear on certain nights for so called meetings, leaving us behind.

As well as these meetings, adults have watering holes where they all congregate and have a few jars. We are too young and get left behind. Thus we get to meet no-one. They also have other clubs dotted around the area so why not one for us crumbsnatchers?

I'm sure there are many more like me who would like to know more about CB. We don't all think of CB's as our mum's and dad's toys but as a working radio or a way of communication.

I personally have been on the air since February and at first had trouble getting people to talk to me but now I'm fairly well known and have my handle on the safe breakers list, (a great joy to me). Some breakers, (only some mind you) do call me a good lady breaker.

I hope all of you adult breakers will take note of this, remembering of course that the crumbsnatchers of today will be the CBers of tomorrow.

I'll give you all the high numbers.

10-10. Breaker-break.

Magoo on the side.

We recently heard of The Junior Breakers Club and will let you know when and where they meet, when they have found a club. 20. ED

Dear Editor,

At 13.15 hours on a Monday I was idly listening to two truckers chatting on their CBs, travelling North on the A1.

At 13.25 one of the drivers 'Jester' called '10-33 Emergency, any Breaker with access to a land line'. I, the 'Razor Blade' accepted the call and asked for details. 'Jester' came back - 'Motor cycle accident, man injured'. The 10-20, by the Coffee Shop with petrol pumps outside, near a slip road on the end of A1 by-pass, south side carriageway.

I dialled 999 and asked for an Ambulance. I gave the details and suggested that it was near the Carlton-on-Trent slip road. At 13.32 the ambulance was on it's way.

At 14.25 the ambulance telephoned to say that this was probably one of two hoax calls they had received that day. They could find no evidence of an accident. Later at 14.30 hours the Police called inferring that I was a 'bad boy' to give a 'malicious hoax call' and waste valuable public money!

I was furious to think that I was caught hook, line and sinker by a hoaxer named 'Jester'. I got on the air-ways and started to search for the 'Jester'. Many Breakers came on in a short time and this information was crackling over a 50 mile radius. Reports were coming in from such areas as Doncaster, Peterborough, Mansfield, Nottingham, Grantham and Lincoln from Breakers offering sympathy and assistance.

At 17.15 hours Breaker 'Jockey' called to say that the accident I was enquiring about happened to her Brother-in-Law at the Muskham slip road, A1 South bound and the 13 year old cyclist was in Newark General Hospital and would remain there for two days.

The relief I felt was difficult to explain and my anger towards the 'Jester' evaporated restoring my faith in thinking that most C.B. operators are responsible people.

To briefly put the record straight. The 'Jester's' call was correct - Two youths attempted to cross the two carriageways of the A1 instead of using the bridge. One crossed safely, the other was hit by a blue van which stopped. The other youth telephoned the mother of the injured boy who rushed to the scene and was attending to her son when with blue lights flashing, the ambulance passed by heading north. The youth was transported by his mother to Newark General Hospital and when the ambulance returned on the South bound side, there was nothing to be seen.

I would like to offer apologies for doubting the integrity of the 'Jester'. Surely the moral of this story must be: If a Breaker reports a 10-33 he must remain within sight and indeed, radio contact of the incident until the services arrive to confirm that the situation is under control, thus avoiding further misunderstandings and possible discrediting of the use of C.B. by 'The Powers That BE'.
Candidly folks. this was a 'close shave' for the 'Razor Blade'. ED

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

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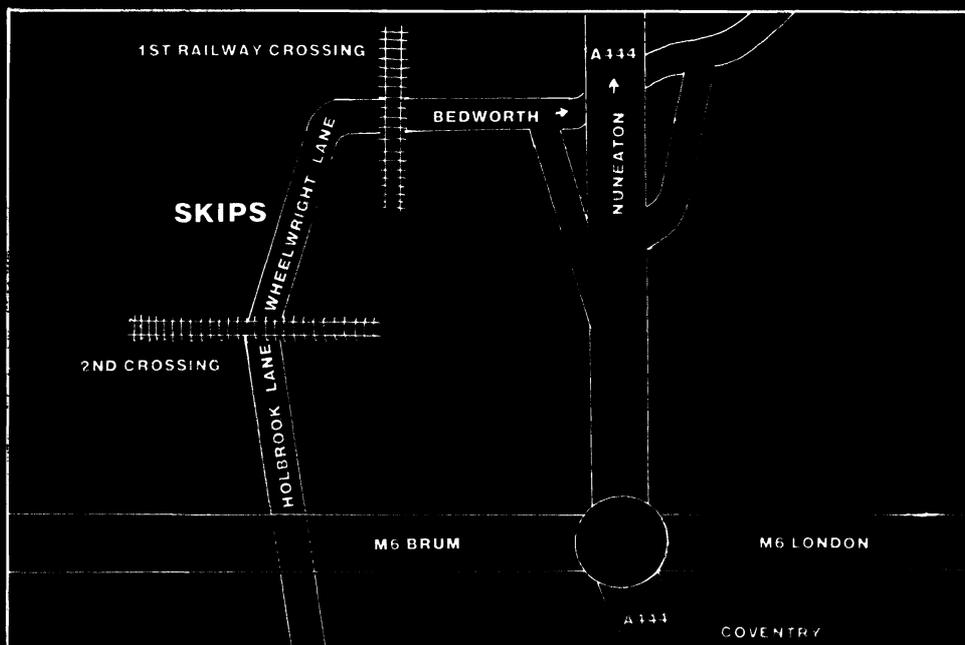
SO THERES:- NO NEED TO SIT AND WONDER WHERE TO GET YOUR TACKLE FOR THE AIR. SO COME AND LOOK, NO NEED TO SPEND AND GET THE GEAR FOR THE LATEST TREND. WE STOCK THE LOT, WE STOCK THE LATEST, SO COME TO SKIPS WE ARE THE GREATEST. NOW YOU KNOW THE BEST IN TOWN, SO GRAB YOUR WHEELS AND MOSEY DOWN.

LARGEST STOCKISTS
IN THE MIDLANDS OF



FLYING DUTCHMAN. COVENTRY

LOOK FOR THE FULL RANGE ON SHOW
LOOK FOR THE MOONRAKER ON THE ROOF



Readers Write

Dear Sir,

The piece in the September CB Radio about the National Committee for the Legalisation said that the N.C.F.L. supported the Government's rejection of the 27MHz band.

How can they say that when all the CB breakers are on 27 MHz and also the delegates to the committee.

These people cannot make a rig which is cheaper than the exported 27 MHz equipment. I think that they are more interested in making money for themselves. 27MHz is a must.

Tweety Pie, Stroud, Glos.

The N.C.F.L. did hold the view that 27 MHz was unacceptable however as we have said the N.C.F.L. have had a re-shuffle, see issue 5.

Although not dedicated to seeing 27 at least this frequency is now included in their thinking. By the way, delegates to the committee are assured not to be using 27, otherwise it would compromise other members of the committee who hold prominent positions in our society. ED

Dear Editor,

I have been interested in CB Radio for a long time now but my interest is growing rapidly towards criticism. I have heard many breakers using abusive language including four letter words! This is unnecessary and will only further damage the interests of other British CBers.

If in the future we have legalised CB on 27 MHz or O.C. on whatever frequency, Airwave Foulage under licence, A.W.F.U.L. (isn't it) should not be tolerated.

I whole heartedly support CB on 27 MHz though I still keep an open mind on Open Channel but at the rate O.C. is going (or rather not going) CB on 27 MHz will be uncontrollably established in the U.K.

Yours sincerely
C.M., Croydon.

Dear Ed,

Having read the 'Vultures on the Side' article in the August issue, I would like to relate my encounter with the police. Like Mr. Kremer I am also a mobile Radio Amateur, (call sign G8VBK). My car must look a bit suspicious with a magnetic mount aerial on the roof and a Citizens Band Association car sticker in the back window. Even so I have only been stopped once by the police so far. I have heard of several incidents where Radio Amateurs have had a lot of trouble but this was not so in my case and they were courteous throughout.

I was out very late and was stopped by an Essex Police Unit. I was informed that it was just a routine check but when he saw and heard my transceiver he asked if it was CB. I explained that it was Amateur Radio and showed them a photocopy of the front page of my licence. It was fairly clear that they knew nothing about Amateur Radio but once I had explained they seemed happy enough. Then having inspected my driving licence they bid me a good night.

Yours sincerely,
Richard F. Penver.

Dear Ed,

I have been a breaker since late 1977. At the time I think I must have been the only one on channel around the Huddersfield area as the only voices I could hear coming through were those of the Italians, French and the Americans and that was thanks to

skip.

Since then I have been amazed at the amount of CB users up and down the country and as we all know CBing on 27 MHz has got into such a state that I can see no way the Government can stop all of us transmitting on 27MHz. I for one would never agree to Open Channel on 928 MHz. No Sir, definitely NO to any Open Channel other than on 27 MHz.

I have to go 10-10 now so don't feed the bears, I'm gone.

VITAL SPARK
Huddersfield, Yorkshire.

Dear Sir,

After hearing about the latest proposals for CB, (Open Channel), I can only agree with Richard Vincent that 928 MHz is "The worst idea ever", as a radio engineer myself I must congratulate him on being one of the few who has got all the facts right. Although I'm not fully sold on the idea of 27MHz, the old Band One T.V. frequency which will become vacant is an alternative that I would consider viable.

However the Home Office must be told in the strongest possible terms that we breakers will not accept 928MHz because of the limiting factors and cost which have been well reported. A national protest must be organized, I'm against mass rallies as these tend to be poorly supported or chaotic.

My suggestion for a protest would be by post, if every breaker and CB supporter sent a letter to the Home Office timed to arrive on or about the same day, then that would in my opinion be a much better way of letting our numbers be felt.

If the Home Office receive 200,000 letters or postcards in one go then our protest would be made and we should get some action, positive action. But we must show a limited front or we will get nowhere.

Wishing you all the high numbers, 10-10
PADDINGTON
Blackpool

Dear Ed,

We recently attended a demonstration rally through the centre of Glasgow. While quite a few people who promised to turn up failed to do so, (sounds familiar), we had a reputable turn-out, in short we brought traffic chaos to several parts of the city centre, made our point and departed. Unfortunately several people had a brush with the long arm of the law, resulting in booking for over enthusiastic use of their car horns, (a lesson not to be forgotten). I would like to thank everybody who participated, in particular the Renfrew and District CB club who thought up and organised the "rally", well done.

We hope to prepare for a second one which will be run by the Edinburgh CB clubs sometime in the future.

73's
D. DOCHERTY
Sect. G.C.B.C.

P.S. Just heard the official number of cars at "cruise" was 100, (not bad).

How about letting us know well in advance when you intend to hold your next rally, then maybe we can help publicize it for you. ED

Dear Sir,

While monitoring channel 19 the other day I heard a friend calling for a certain breaker who he found. They then went off to channel 60 USB. Having a large Sommerkamp I decided to go and have an earwig.

What I heard was unbelievable. To cut a long story short one of them was a smuggler who had a large amount of rigs confiscated at Dover at the end of January. Old Buzby had sent him a letter telling him to collect his 610 rigs in two days or they would charge storage, they also told him he could do what he wanted with them, use, sell, etc. Later I had an eyeball with him and asked him if it was true, he then showed me the letter and the rigs.

Other breakers in the area have been receiving letters to the same effect.

73's, 51's, 55's and all the high numbers. Catch you on 19 most nights.

MONKEY MAN

Dear Editor,

Having read several H.O. publications and discussed the points made with CBers, I have reached a conclusion that, the real argument for the legalisation of a Citizens' Band is money.

If it can cost up to £4,000 to actually implement one bust, we can assume that the H.O. in prosecuting 250 citizens may cost the tax payer £1,000,000. A quarter of a million "breakers" paying an annual licence fee would instead credit the Government's resources.

Hundreds of gentle law abiding citizens have eagerly awaited legalisation, but due to our present ridiculous situation have decided to "break" the law (excuse the pun), so the Government again loses potential revenue, i.e. V.A.T. on sales.

Can someone please tell me if there is such a thing as a quorum of voting people which would oblige the House to discuss this matter earnestly rather than through Writings from our local MP's. The Writings need only to be answered with a glib H.O. statement and we know those by heart!

I have used money as my argument, would any Government official like to answer my question:-

"How much does ONE life cost?"

If a Citizens' Band can save one human life is it viable?

SUNSPOT

A lady breaker from the
Milton Keynes 20

Dear Sir,

While reading the Motor Cycle News I saw a small article on Ron Haslams bad weekends racing. Unfortunately his weekend was made worse, on the Saturday he was flying his expensive Model Aircraft, yes wait for it! It nose dived to destruction. He blamed CB for it, I don't think this is fair, anything could have happened. The controls could have packed up or something else, or did someone shoot it down, if so he should have more sense.

He could injure the people nearby or damage property nearby too. So come on CBers, play it fair, leave them to play with their toy and us with ours, o.k.

Big 4, breaker, break
MOONRAKER

Herts

The most sensible system we have seen yet to avoid the RC problem is to use bleep coding to activate the model. This would certainly help as a model can be sent out of control by another model on the same frequency. Not normally a problem, hence the colour coding. However recently toy cars and boats have been flooding onto the market all of which operate on 27 and could easily cause the loss of control. So God help the modeler after Christmas. ED

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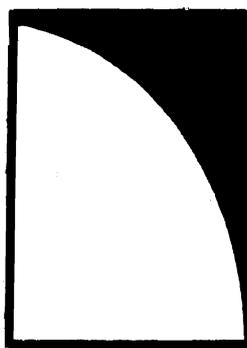
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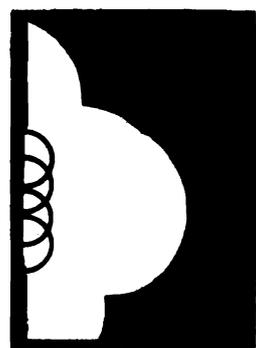
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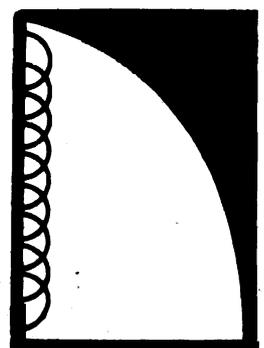
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Power wave of full length non-loaded antenna



Power wave of center loaded or lump wound antenna



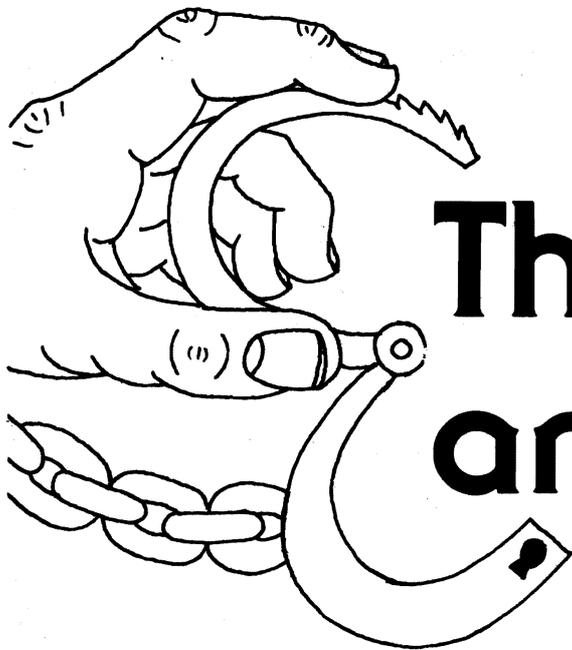
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The Law and You

The Metropolitan Police Act, section 66.

Ah the wonders of our judicial system. We have as a national publication avoided covering the Metropolitan Act, but we have recently received more and more demand, not least of which is 'The Klansmans' letter in our Readers Write, (this edition).

As a serving police officer he feels that this Act gives any officer in the Metropolitan Police area the power and authority to arrest for CB.

It should be stressed that the following only applies to the Metropolitan Police area and that each individual county or area may have totally different advisory powers. For instance it seems that Scotland is a whole new ball game and in short their police force can act quite freely and within their powers to arrest and detain for CB.

Metropolitan Police Act 1839.

Subdivided into sections each dealing with a different portion of the Act Section 66 has a sub heading and text which reads as follows:

Power to Police Constables and persons aggrieved to apprehend certain offenders.

66. Any person found committing any offence punishable either upon indictment or as a misdemeanor upon summary conviction by virtue of this Act may be taken into custody without a warrant by any constable or may be apprehended by the owner on or with respect to which the offence shall be committed, or by his servant or any person authorised by him, and may be detained until he can be delivered into the custody of a constable to be dealt with according to law; and every such constable may also stop, search and detain any vessel, boat, cart, or carriage in or upon which there shall be reason to suspect that anything stolen or unlawfully obtained may be found, and also any person who may be reasonably suspected of having or conveying in any manner any thing stolen or unlawfully obtained.

Discretionary Interpretation.

With most Acts the letter of the Law has to be applied to the situation by the arresting officer. Interpretation of this 'letter of the law' can be a stumbling block. Each individual reading the above could put his own opinion to its meaning as regards CB.

For instance:-

Can an officer have reason to suspect that a CB tranceiver is stolen or unlawfully obtained?

A CB is normally brought into this country as an illegal import, however possession of a tranceiver is not an offence. The act of smuggling is the offence. So can an officer safely assume the equipment to be unlawfully obtained?

The overall answer is NO. Importation was not an offence prior to 1968 and it is not illegal to import component parts or semi-assembled tranceivers. Therefore it does not follow that any and every CB has been illegally imported. However the short term answer is YES. An officer could use section 66 to stop and detain.

This detention by definition of the Act could only be until the equipment is proved not to be stolen or unlawfully obtained. In other words five minutes at the road side whilst the owner of the equipment produces a valid receipt and some means of identification.

Once ownership is proved in this manner then the officer can have no reason to assume that the equipment is stolen or unlawfully obtained and must comply with the Act and release the suspect along with his now proved possession. Unless of course no papers are produced to prove legal ownership of the equipment, then this could easily mean a period of time at the local station whilst ones identity is checked and the source of the equipment proved to be valid.

Meanwhile it could be reasonable to assume the police will be within their power to contact the Customs and the police could then use the Customs and Excise Management Act which states 'Any police official or member of Her Majesty's Armed Forces, Coastguard or any Officer of the Crown, may detain illegal contraband pending the arrival of a Customs Officer.'

Of course the situation from here on gets more and more complicated with the likelihood of the GPO, HO and Customs all showing an interest in the quite legally arrested suspect. Now once at this stage, namely in custody, it would be reasonable to assume that in CBers terminology you're 'Busted!' and all the previously reported facts would apply, i.e. installation if installed, and transmission if caught transmitting. See our back issues 3, 4 and 5.

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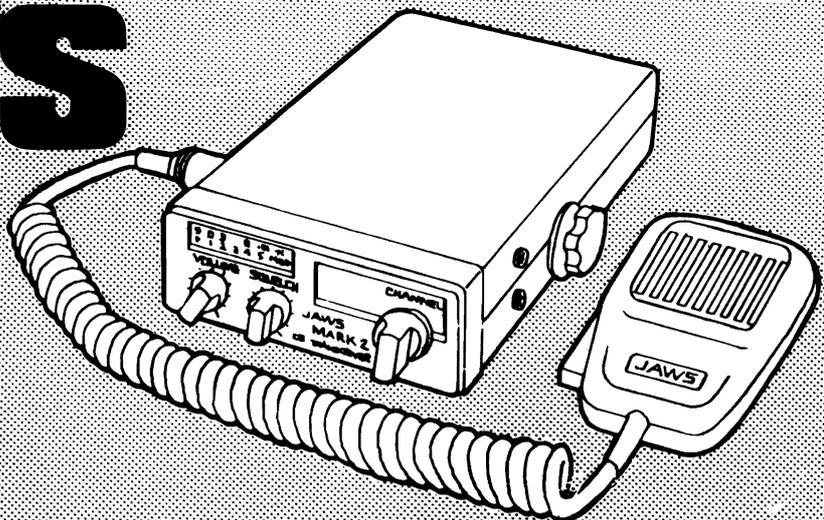
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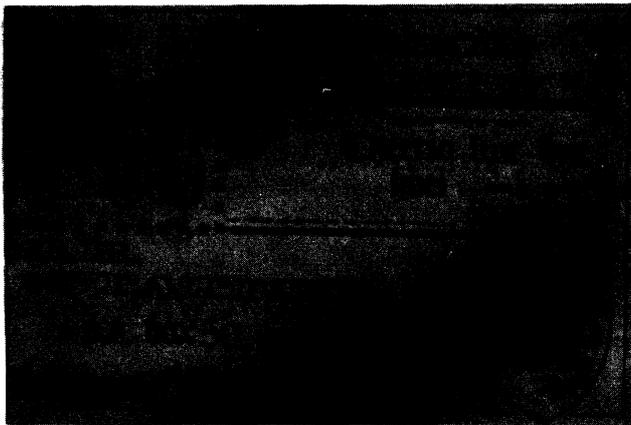
Hi QSLers,

You know the QSL scene is really booming at the moment, it is now growing really fast here in Britain. Of course America has been QSLing for years but recently just about every country, Australia, New Zealand, Germany, in fact you name it, has taken to sending cards back and forth to each other.

This is a good thing for Britain as our cards are really sought after, I know that I have said this before but it seems that QSL's with Britain, UK or the Union Jack on it seems to attract a response above the normal.

I must say I have been pleased with the standard of English QSL's sent to me. But I would like a whole lot more for the States, as members in the U.S. cry out for QSL cards, so keep them coming.

I have another good club for you this month. The King QSL Club from Belgium, I have tried this club, and found it to be of really good value, they have a good club



package to offer. The President of the club is Tango Kilo 001. The club address is P.O. Box 5 2670 PUURS, Belgium, or send post paid envelope to ENGLISH INTERNATIONAL DX Club and we will forward invitations to you. I personally think that they have a very nice club stamp.

Seeing as how I have started a star rating for the clubs, I intend to review, I will give the King QSL 8 out of 10, not bad at all and well worth the money. But we won't dwell on that subject, if you are interested just write to me, Lez, at: English International, 225 Arnold Street, Boldon Colliery, Tyne and Wear, NE35 9BA.

Also if there is any help you may need, with regards to QSLing please drop me a line and I will do my best to help you.

Next month it's the turn of the New Zealand and World Wide QSL Swap Card Club. So from Lima Charlie 1 all the best 73's and 51's have a good day the CB way.

Star rating for the King QSL Club.*****

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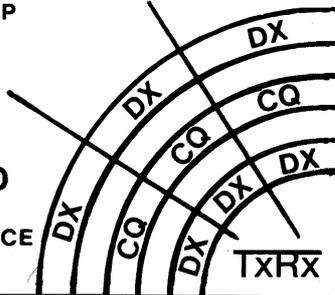


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