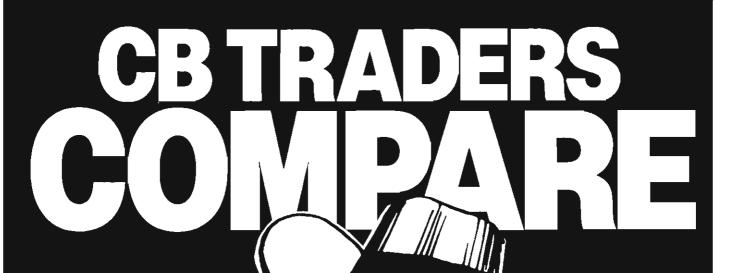
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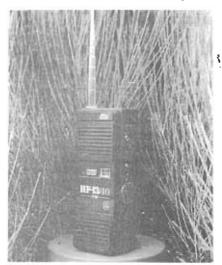


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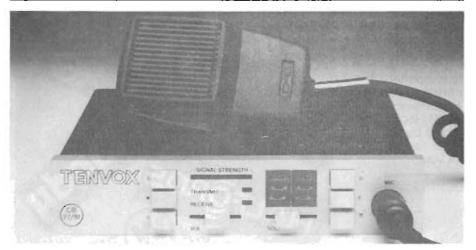
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November 2nd legal

At last our prediction of 1st November has been confirmed by the Government!

By the time you read this FM CB will be legal. This is the first time this statement has ever appeared in CB Radio Magazine.

Unlike other publications WE GET IT RIGHT!

Well almost since August we have been saying that CB will be legal on November the 1st However, nobody in our offices checked the calendar to find out that November one is a Sunday. You can't expect us to be, intelligent as well as clairvoyont, now can you?

We would very much like to welcome all the new readers of CB Radio Magazine. If you are looking through this issue while standing in W. H. Smith's and not sure which magazine to buy on CB radio, look no further. Forget all the imitations, we were the first and we are still the best. We don't rely on half-clad young ladies to keep your attention, we don't write about car cassette decks, we don't print pictures of fighter planes but what we do is to bring you, the British breaker, the facts about CB and nothing else! So, if you are still browsing, put your hand in your pocket, extract 60p, walk to the cash desk and buy the most informative magazine on the subject. If you want to read about all those other things I mentioned, Playboy is an the top shelf, next to Mayfair.

Rig transversions

As we predicted, the Home Office announcement on CB has made allowances for AM breakers to have their sets converted to FM (CB Radio Magazine Sept.). Ever since we published that article, we have been bombarded with calls about where to get this service, or more precisely, the telephone number of Finelms Electronic (Warrington). To save you having to make two phone calls, the number is (0925) 574691. It is most important that if you are considering having your rig transverted from AM fo "legal" FM, you get a receipt for the back duty and that the rig is stamped with the CB27/81 loga. Unless the set has had the back duty paid and bears that stamp it will still be illegal to aperate, regardless of what the person doing the transversion tells you.



Where to buy your set

If you are madly rushing round trying to buy a legal CB rig, slow down because it's quite likely that you won't be able to get the model that you want or any model at all. This Isn't the fault of your local CB store but the fault of the Far Eastem producers of CB. They have all had such a short time to develop new integrated circuitry that the demand has completely outstripped the production capabilities. Out of the 3 million sets that should be sold during the coming year, only a fraction of this number will be ready before Christmas. At least Santa's sack will be a bit lighter than he thought! If you are trying to buy an ALL BRITISH CB rig you can almost forget that because to date there are only three or four intending British manufacturers out of the 30 or so companies producing the product.



Next month :

This manth we are carrying a small selection of rigs, twigs and bits that you will legally be able to use. Next month will see a massive issue consisting of all the legal equipment we can get hold of. There will be at least two rig reviews of legal sets and how they perform plus antennas, mics and much more. Order your copy nawl



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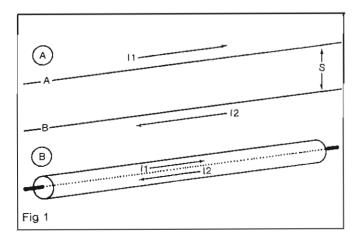
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Antennas and Transmissions on CBtrequencies

by F.C. Judd, FISTC MIOA. Assoc. IPRE - Part 13

This series of articles have so far dealt almost entirely with the function of antennas, radio wave propagation and the more practical aspects of matching an antenna to a transmitter with a suitable cable of a type know specifically as a radio frequency transmission line. However, virtually any cable used to carry power from a source to a load could be regarded as a transmission line. For example a pair of wires connected to a battery at one end and a lamp at the other could be considered as such. If the transmission line is long then power will only be lost because of the self resistance of the conductors. When power is fed from a transmitter to an antenna at radio frequencies there is the added problem of inductive and capacitive reactance which, together with self resistance, causes all transmission lines to have what is known as a characteristic impedance. Since we are also dealing with transference of power at different frequencies, other factors such as wavelength and velocity come into the picture and which to some extent control the physical aspects of transmission lines. Although purely resistive loss cannot be nullified because this is inherent in all conductors, steps must be taken to prevent radiation loss by suitable construction and which is accomplished by using two conductors arranged so that they are close enough together for the electromagnetic fields from each to cancel out ie: so that they do not radiate. A transmission line will radiate anyway if the characteristic impedance of the line is not exactly equal to the impedance of both the source and the load.



Types of transmission line

The most simple type of transmission line normally consists of two parallel conductors spaced a very small fraction of a wavelength apart. The most commonly used nowadays is the coaxial cable in which one line is in effect shielded by the other. Parallel conductor lines and coaxial cables otherwise behave in much the same way electrically. The configuration of each is shown in Fig. 1 in which currents I1 and I2 are flowing. If the current I1 at point 'A' on the open line has the same amplitude as current 12 at the opposite point 'B', then the fields set up by the two currents will be equal in amplitude and since they are flowing in opposite directions as the arrows indicate, the field from I1 will be 180 degrees out of phase with the field created by l2. In practice the fields may never be exactly 180 degrees out of phase and there will always be a small amount of radiation from the line.

The second type of line, shown in Fig.1 is the coaxial or concentric line consisting of a single conductor surrounded by its companion conductor in the form of a tube. The principle of operation is the same ie: because of close spacing the field due to current in the inner conductor is cancelled by the field due to current in the outer conductor. Coaxial lines have another property however, which is called skin effect because current flowing along the inner surface of the outer conductor does not penetrate through to the outer surface. The total field outside the cable is therefore negligible because in effect the outer conductor also behaves as a shield.

Line Velocity

It is important to remember that although radio waves in free – space travel at approximately 300,000,000 metres per second, they do not do so in conductors. In fact the velocity of travel is slower. In coaxial lines the presence of dielectrics (insulation) other than air, reduces wave velocity very considerably. Open wire air-spaced conductors are not so effected and the velocity factor is generally close to unity. Since wavelength depends on velocity the length of transmission line will otherwise be shorter in terms of wavelength than an equivalent length or distance in free space. A typical velocity factor for coaxial cable is 0.66 of the free-space wavelength in use.

Characteristic Impedance

All transmission lines have what is called distributed self inductance and capacity. This means that each unit length of line has its own small amount of capacitance and inductance so a transmission line could be regarded as shown in Fig. 2A. Each small section of inductance limits the rate at which each small section of capacitance charges up and the effect is to establish a relationship between voltage and current flowing in the line. Thus a transmission line has an apparent resistance to alternating power or what is called the characteristic impedance. (Impedance is to AC what resistance is to DC). The symbol for impedance is Z. The inductive values of a transmission line decrease with increased conductor diameter and the capacitive values decrease with increased spacing between the lines. Hence a line with large diameter conductors closely spaced will have a relatively low characteristic impedance whilst a line with wide spacing and thinner conductors will have a high impedance. The common impedances of open twin conductor lines are between 200 and 800 ohms and for coaxial lines between 15 and 175 ohms with 50 and 75 ohms being most used for radio application.

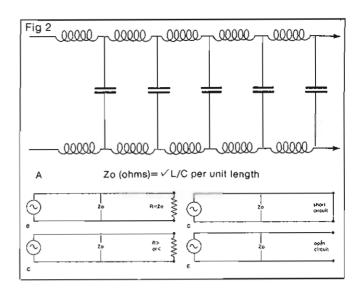
Line Matching

If we take a transmission line of a given impedance and connect one end to a generator having the same impedance and the other end to a purely resistive load (R) but also equal to the line impedance (Zo) as in Fig. 2B, then current travelling down the line will flow into the resistance which as far as the current is concerned is simply an extension of the line itself. Since a pure resistance has no inductive or capacitive reactance the line in this case would be perfectly matched ie: none of the power (I2 Zo) flowing into the load will be reflected toward the generator. An infinitely long transmission line with the same impedance throughout its length would behave in the same way but the power would eventually all be dissipated by the natural resistance of the line conductors. If the load resistance R does not equal the impedance of the transmission line (fig. 2C) then power which is not dissipated by the load will be reflected along the line to the generator. The greater the difference between R and Zo the smaller will be the amount of power absorbed by R and so the mismatch will become greater. Power flowing through R is called the *incident* power and that returned to the source is called reflected power. We can therefore talk of the ratio of reflected to incident power which becomes larger as the impedance mismatch increases. For instance, when R equals a short circuit as in Fig. 2D then all the power is returned as is also the case if R equals an open circuit as in Fig. 2E.

When a mismatch occurs power in the form of a travelling wave is moving in both directions along the line ie: forward and backward. The amplitude of the reflected power is however dependent on its difference in phase to that of the forward power, both of which interact and set up what is known as a standing wave on the transmission line and this is what is measured by a VSWR meter.

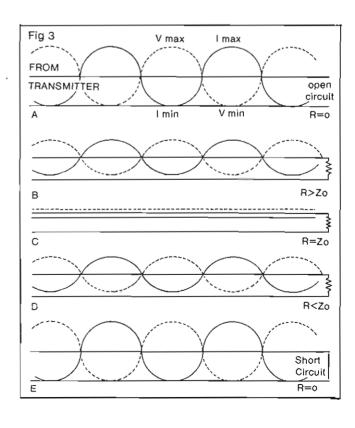
Standing Waves

The diagrams in Fig. 3 illustrate how a standing wave is created and in (A) we have an open circuit at the end of the line which prevents current flowing out. The circuit wave form at this point has zero amplitude and thus in effect cancels itself because of a reversal of polarity ie: the phase is reversed. The



current is travelling along the line but the voltage is across the line and is therefore not reversed by this reflection. The electric fields of the forward and reflected waves therefore add up to twice the amplitude (very high VSWR). The diagrams Fig. 3D and (D) denote conditions where R is not much greater or smaller than Zo and thus a standing wave of lower amplitude is produced because only part of the forward power is reflected (VSWR not acceptably low enough). Fig. 3(C) shows the situation when R equals Zo je; when no power is reflected since it all flows into the load and we have a uniform travelling wave (near perfect 1 to 1 VSWR). The remaining diagram (E) illustrates a short circuit across the line and here the standing wave amplitude is the same as for an open circuit condition (very high VSWR).

The ratio of maximum to minimum voltage of the standing wave is called the VOLTAGE STANDING WAVE RATIO (VSWR) and which is also equal to the ratio of the mismatch R/Zo. In simple terms, if the match is perfect then the VSWR is 1 to 1. The greater



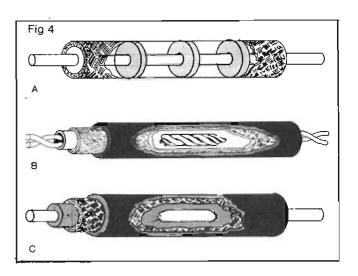
Antennas and Transmissions on CB trequencies

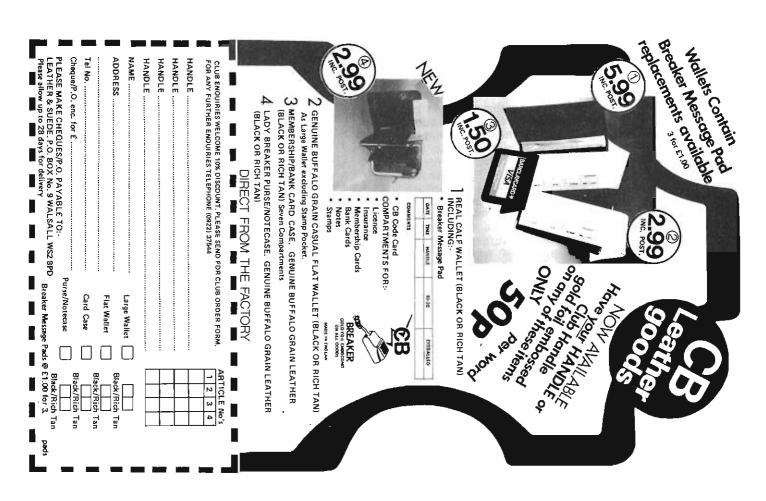
the mismatch the higher will be the VSWR and this becomes more or less infinite with an open or short circuit condition which incidentally should be avoided as high reflected power can damage transistorised transmitter output stages as well as creating a high level of radiation from the feed cable itself.

Coaxial Cable

The open wire transmission line has virtually no application in CB radio, particularly as all CB sets and antennas have the now universal matching impedance of 50 ohms. Therefore, coaxial cables only will be dealt with and which are available in a number of different types. For example, ultra low loss and almost fully airspaced cables as shown in Fig. 4A are very expensive and in any case little used except for certain very high frequency applications entailing long cable runs. Next there are the semi-air spaced types as in Fig. 4B in which the inner wire conductor is interwoven with a polythene line both being loosely enclosed in an insulating tube, usually polythene as well. Outside this is the shielding braid which for protection has a final outer cover of PVC. Semi-air spaced cables have a fairly low loss and need only be used for 27MHz if the cable run is very long e.g. more than 100 feet. The most commonly used coaxial cables are those which have either a single or stranded wire inner conductor moulded in a solid dielectric (insulating surround). The screening braid outside that with of course a PVC protective outer cover as shown in Fig. 4C.

The continuation of this article next month will deal with suitable coaxial cables for 27MHz and include essential technical data e.g. loss and velocity factors, power rating and application etc. on those normally available. Coaxial cable plugs and their proper connection to cables will also be dealt with.





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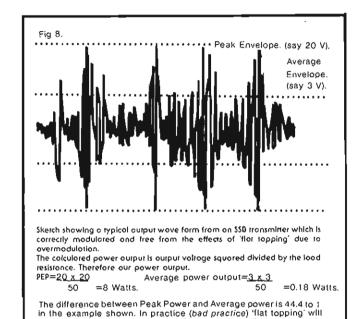
SSBTRANS

by E. A. Rule. Part 2

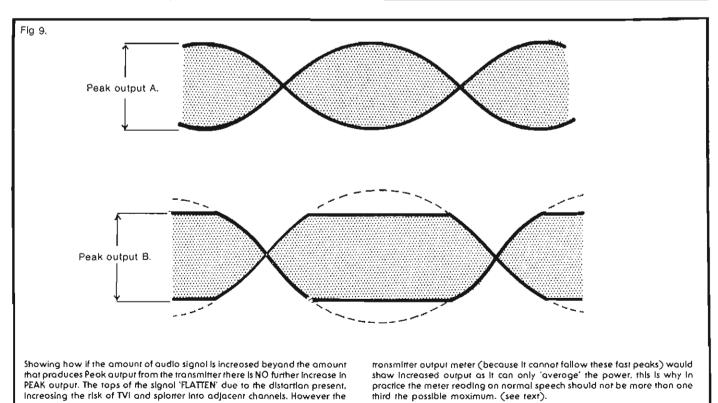
This month we shall take a look at the power ratings of SSB transmitters which would at first sight seem fairly obvious, after all ten Watts is ten Watts, isn't it? Well it all depends on what you mean by ten Watts!! It could be ten Watts RMS, or ten Watts Peak, or ten Watts Peak to Peak, or ten Watts Average, or ...etc. All this means that the SAME transmitter could be rated at powers of 4, 8, 32 Watts for exactly the same output with an AVERAGE power rating anywhere in between!! No wonder the sales technical writers have a field day.

Power is calculated by multiplying the voltage present by the current with a given load. With direct current this is easy, just multiply the two together, (V x I). With alternating currents the RMS values (root, mean, squared) of voltage and current are used. For Peak power measurements the Peak voltage and currents are used, while AVERAGE power uses the average voltage and current present over a certain period of time. Providing you know which one is being used all can be correct. The problem is when you see a rig specified at say ten watts output without saying what type of watts!! Confused? Good! We will now try to clear things up.

The BASIC power rating of any SSB transmitter is



reduce this ratio at the expense of splatter into adjacent channels



MISSIONS

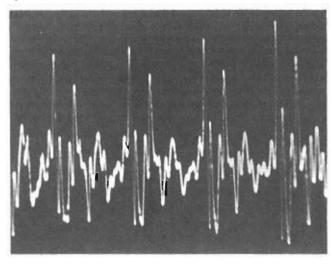
the power contained in the signal at the MAXIMUM PEAK AMPLITUDE and this is the PEAK ENVELOPE POWER Fig 8, or PEP. This PEP will be relative to the amount of distortion considered acceptable and a level of 5% is the just acceptable maximum. Lower figures are required if splatter into adjacent channels is to be avoided, (note, we are referring to RF distortion, not audio). Once the PEAK AMPLITUDE has been reached the effect of trying to increase the output further will only cause the top of the envelope to 'flatten', Fig 9. At this point there is NO further increase in PEP but a very considerable increase in the distortion produced and the interference caused to adjacent channels and television sets. The ONLY way to increase the AVERAGE power output without 'Flat topping' is to use a correctly designed speech processor, (this is not a power mike which is something completely different and could in fact make the 'flat topping' worse). A correctly designed speech processor will remove the peaks from the speech waveform and allow the average level to be increased without flat tops appearing on the peaks.

The actual amount of improvement will depend to a small extent on your voice as these differ between one person and another in the ratio of the Peaks of the speech waveform relative to the average level. Nevertheless, quite considerable gains in AVERAGE power output can be obtained but the PEAK OUTPUT REMAINS THE SAME.

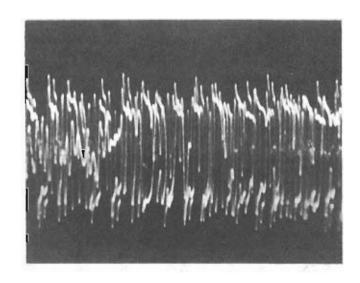
A good 'rule of thumb' test for setting up your modulation is to first whistle into your microphone and see what the ABSOLUTE MAXIMUM reading obtained on either the rigs output meter or your SWR bridge. Make a mental note of this maximum reading. Now, while speaking into the microphone with a normal conversational voice at a distance of four or five inches from it, adjust any microphone gain controls so that the average reading on the output meter is NOT MORE than ONE THIRD of the maximum reading obtained on the whistle test. The reason for this lower setting is that the meter is a mechanical device and simply CANNOT FOLLOW THE PEAKS of the speech waveform, it isn't quick enough, the peak has happened before the meter pointer can move and due allowance must be made for this, 'Talking up' the output meter is one of the main reasons why so many transmissions sound distorted and also why they splatter into adjacent channels. It may give you more talk power, but only at the expense of other operators' enjoyment and to say the least, it is unsocial behaviour. If you must have maximum talk power, use a properly designed speech processor which will allow the required increase in AVERAGE power without the 'flat topping' of over -driving. Fig 10 is an actual photograph of a speech waveform with and without a speech processor (the

Persuader) in circuit, the increase in AVERAGE power 'speaks' for itself!

Fig 10.



Actual photograph of a speech wavefarm without any pracessing as would be presented to the microphane input of a transmitter. Note the very high peak amplitude campared with the 'average' levels.

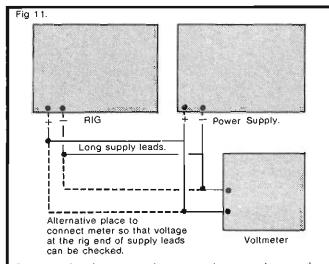


This photograph shows a correctly 'pracessed' speech wavefarm. Note now that the 'average' is very much higher than befare but that the peaks are in fact slightly lower. This would mean a considerable increase in average power output but without the risk of 'flat rapping'. Compared to a normally and correctly madulated transmitter the goin in 'tolk power' can be as high as 32 times in practice.

SSB TRANSMISSIONS

Apart from the increase in distortion already mentioned, 'flat topping' greatly increases the risk of TVI due to the increased harmonic content of the signal and a good operator will use the rig so that the maximum output on peaks is slightly below the absolute maximum that can be obtained. A reduction of only 0.5 dB will often completely prevent TVI and such a small reduction would not be noticeable at the receiving station. Coupled with a good speech processor the overall effect would be a general reduction in splatter into adjacent channels less likelihood of TVI yet with an overall increase in transmitter range. Worth thinking about?

To be certain that maximum power is obtained from any particular rig it is very important that attention be given to its power supply. Simply connecting up any old 12/13 volt supply will not do. Although an SSB transmitter only draws a low current on average its PEAK current demand can be relatively high and if the power supply cannot meet this peak demand the transmitter output will be limited and the risk of 'flat topping' increased. The current demand will be even more on average when a speech processor is used so always make sure that the power supply is rated to a current of at least the rig's maximum current which is



First connect the valtmeter across the power supply output and measure the valtage both with the transmitter on standby and then on full power (see text). Next repeat the measurement but with the voltmeter connected across the supply leads at the rig end. If voltage drop is present, use either thicker leads at shorten them.

LEVEL OUT

THE PERSONAL PROCESSOR

INPUT SET LEVEL

TO CONICS

An exomple of a commercial speech processor which connects between the existing microphone and tronsmitter input. Units of this type can give considerable gains in average power output without causing the rig to suffer from 'flat topping'. See text.

normally given in its instruction book. If in doubt, a typical ten watt rig should have a power supply of at least 3 Amps continuous current rating.

The power supply should also have a stabilised output and this would normally hold the voltage (13.8 volts) steady over its full current range. Connect a volt meter across the output of the power supply and measure the voltage present both off load and on full load (a whistle into the mike), if the voltage drops more than a fraction of a volt it is unsuitable or poorly stabilised. Very long supply leads between the rig and power supply can also cause a voltage drop on load and the same test should be carried out but with the volt meter across the rig end of the supply leads. Leads with a relatively high resistance (and here we are talking of fractions of an Ohm) can ruin the best regulated power supply. Fig 11 shows how to check the supply voltage.

Flickering panel lamps when modulating are a sure sign that all is not well in the power supply department (although on some rigs where the power supply is integrated with the rig this may not be true). Remember, a poor power supply can be one cause of TVI and splatter into adjacent channels, something that is often overlooked as a cause of these problems.





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LEGAL RIGS!



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We have been hearing for many months now of all the people who will or will not be supplying 'Legal Rigs' for the British market. Although all of the people who's transceivers have been featured have every intention of supplying the equipment, many of them have come across a common problem; where to get the necessary I.C's (integrated circuits or chips) from in large enough quantity to meet the demand on day one of legalisation. The problem has been so acute that some companies have had to resort to using crystals for their prototypes that don't work.

Chip shortage in the Far East

Most electrical equipment on sale in this country originates from the Far East regardless of who's name appears on the box. The same is true of most of the Citizens Band radio equipment destined to reach our shores later on this year. It is in the Far East that the shortage of British Specification integrated circuits has occured. With only months (rather than years) to develop completely new circuitry and with a limited amount of factories capable of producing 'chips' it is not at all surprising that a drought exists.

German ingenuity

DNT of Germany have approached the chip problem from a different angle. As designers and distributors of CB equipment for over 19 years for the European market they have undoubted experience in radio communications. Ever since the release of the Home Office Draft Specification for CB transceivers DNT's engineers have been working on their own rigs using their own methods. Rather than having to rely on new chips, the engineers have taken a Motorola output stage and added an extra chip of standard design and availability and a crystal. This method has given DNT the correct channel spacings and output (40 channel 4 watts FM) and means that the rigs are ready for sale. Even though the Germans have designed these new rigs for England, it is in the Far East that production models have been manufactured.









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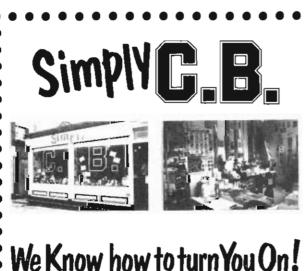
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INTERNATIONA

More news on the DX QSL scene

Greetings to you all.

In its short history, the UK DX/QSL club scene appears to have given birth to three distinct type of clubs.

The DX/QSL type, e.g. Eng. Int. DX Club, Big Ben DX/QSL club, etc., the QSL swapping type of club, e.g. British Concorde and the DX type.

It's in this third category that the United Kingdom (International) Radio Group would like to be classed.

The UK (Int) RG was founded in February 1981 by "Arthur". A man of mystery - no surname! Actually 1 do know Arthur's surname but seeing as it appears nowhere on any of the Group's stationary, application forms, QSL cards or whatever he must want it kept QRT so I'm not going to be the one to let you know! Perhaps one day Arthur will unleash his dreaded secret on the world! The address of the UK (Int) RG is

Arthur, P.O. Box 13, Long Eaton, Nottingham NG10 1BU.

Membership to the group is £5 (+ £1.50 for overseas airmail). This will bring you a fine package containing; 10 Club QSL cards, a rubber stamp, 10 adhesive decals, a lapel badge, a UK folder and maps, etc. Some very nice extras are also available at quite reasonable prices; printed patch 50p, embroidered patch £1.50, lapel badge 40p, Club log book 75p, printed tee shirts

In fact the UK (Int) RG is a very professional and well run organisation and it is this very thing which disturbs me slightly. This is my own personal thoughts, not influenced by anybody or anything else. Could this group be the first of many clubs run as a moneymaking business, rather than as a club? I hope not.

A Refreshing Sight

Its a sad fact of life that any craze, new thing, cult, call it what you like, drags along in its path a huge bunch of get-rich-quick whizz kids, cowboy outfits, rip-off merchants, etc. We've all seen this happening with the DX/QSL scene. Well just by way of a refreshing change I came across an unexpected

exception the other week. I was at a local CB Rally/Eyebail the other week and was naturally attracted to the stalls displaying QSL cards, log books, etc. One stall really attracted me and the thing which caught my eye most of all were the prices. Rock bottom! Most unusual. QSL cards from £17.00 per 1,000, gloss finished cards about £28.00 per 1,000, log books (refillable) in very smart clip board type folders around £3.00 and something five been searching far and wide for, Pictograms. A Pictogram is a combined airmail envelope/letter thing. You write on one side, fold it up sort of inside itself and it turns into a letter. Very nice, plus a bonus of it being covered in views of the UK.

I was really pleased to see this stall. My faith has been restored in human nature. I was beginning to think that all printers were getting very rich, very quickly on the backs of UK QSLers.

Anybody interested in finding out more about some rare bargains drop a line to Arandel, 4 Tintagel Road, Hindley Green, Wigan, Lancs.

The Coon Ass QSL Club

The Coon Ass club was formed about seven years ago by Perry and it is very well established and respected, unlike a lot of the here today, gone tomorrow type of set-ups which appear to be springing up every day. Perry has been involved with QSLing for quite a lot longer than most of us over here. Would you believe 18 years?

Membership of the Coon Ass at the moment stands around the 700 mark. Perhaps one of the reasons for this seemingly low number considering the age of the club is possibly the membership fee. At \$17.00 plus \$3.00 air mail for outside the USA it's not cheap. But you do get a slightly better than average package.

Apart from the usual QSL cards, rubber stamp, certificate, etc., you will receive a smashing Coon Ass T shirt (see card and photograph) and a special bonus, membership to the Worldwide QSL club including certi-

English International QSL AD's

Richard Topp (Blackheard) 85 Kirkby Rd Sutton in Ashfield Nolls NG17 1GG Gary Morrow (Hot Wheels 501) 2 Robert St. Newtownards Co Down N Ireland

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Sandcastle QSL AD's

Halle my name is Ian Shrador. President of the Sand-castle QSL club. I will be supplying addresses and QSL cards from all over the world to this column. If you would like to exchangicards with me, please send an Interna-tional Repty Coupon. 3c. P.D. Box 167, Pacific Beach, Washington 9857 s. USA.

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ficate and rubber stamp. In effect – two clubs for the price of one. Looked at in this light, the membership fee is not too bad at all.

I suppose all along your thoughts keep returning to that weirdo name – "Coon Ass". A bit strange innit? In actual fact all that it is, is nothing more than a name given by Americans to the people who live in a particular region. Much in the same way as over here we have a Scouser, Cockney, or as in my case, a Geordie. This was confirmed to me by my pal Dave Prichard (Mission Control SSB) who should know. He lives in Pasadena, Texas. According to Dave, people in Texas call people from South Louisiana "A Coon Ass" (Coon as in Raccoon, Ass as in !!!!).

Apparently this stemmed from the fact that a lot of South Louisianans were Acadians, that is, to use Dave's words, part French, part black, party everything. There's a tie-up in there, somewhere, but I'm not going any further into that little lot, thank you very much! Anyway, to carry on, it was orginally meant as an insult, a slur, but nowadays it's all in good fun. So much so, in fact, that Lousianians appear to have adopted the name for themselves! Well, so much for the social history lesson. Anybody interested in becoming a Coon Ass and also a member of the Worldwide QSL club at the same time, get in touch with Perry at P.O. Box 278, Monroe, Louisiana 712101, USA. Apart from the \$17.00 plus \$3.00 air mail, send a photograph

4 6 4 6	Coon Ass QS	L Club			
	Star Rating .	Yes First Class	Fair Second Class	Third Rate	No
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	World Recognition Distribution QSL Response Time Club Stamp Club QSL Cards DX Unit Number Wall Certificate ID Card Club Roster Club Patch/Badge DX Log Book Club Accessories Club Information Tourist Information Cassette Swap Club Postage Life membership XYL Membership Value For Money Overall Presentation	*****			***
	Total Star Rating	12	1		7

of yourself and 20 of your personal QSL cards. One last thing, don't forget to state what size T shirt you want.

P.S. Dept. Keep those cards coming in with your favourite/best DX/QSL club listings and all those genuine 100% 1-4-1 QSLers who want to get their name and AD onto the "CB Radio" QSL list, Let's hear from you.

That's it, folks. Best regards to you all.

And remember, "If you can't use the mike, use the pen".

Charlie Hotel - Echo India - 25 Clear.

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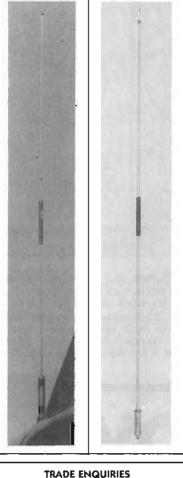
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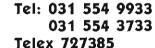


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Our retail department is open to the public where you will be able to purchase your radios and accessories at realistic prices and remember everything we sell is covered by the 777 GUARANTEE.

7 FM

All the CB transceivers featured in this article are legal FM sets which comply to the Home Office speci-fication 1320. When you read this article it should be possible to actually go out and buy some of the sets which we are featuring and assuming that you are in possession of a CB Licence. you will be able to modulate to your heart's content. Cosmetically, some of the equipment is now different to that which the manufacturers or importers originally intended but the insides of the sets remain the same. Amstrad and Binatone are examples of companies who have changed the look of their transceivers since 'prototype' days.



The sets in this article have been chosen at random and only represent a small percentage of the equipment that will be available from legalisation day. Next month we will be featuring a far wider range of rigs which will either confuse the issue or give you, the reader, a wider choice of what to buy.

Accessories

To get on the air you are going to need more than just a transceiver, the following items should give the new breaker a few hints. ulation.

Power Supply

is only needed if you intend using your mobile rig indoors as a home base station. This is a transformer which converts 240 A/C into approx 13.8 volts DC so that you can run your transceiver from the mains. Most home base stations have a built-in power supply.



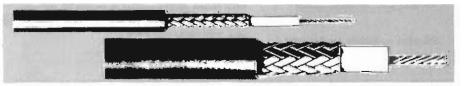


Coaxial Cable

Whilst most aeriels/antennas come supplied with a length of coaxial cable to attach to the rig, some do not. A good quality cable is essential to prevent unwanted radio breakthrough and this can be purchased by the metre from most good CB shops. For reasonably

short runs RG/58 is normally used (this is an American type cable for other

British choices see this issue Antennas & Transmissions).



Products

Microphone

Nearly every rig comes supplied with a mic. However there are more effective types of microphone available which will give either extra sensitivity or clarity. When buying any separate microphone make sure that it has the appropriate plug to fit the socket of your rig.





Realistic TRC 2001

This rig will only be available through Tandy's nationwide stores as Realistic is their own brand. Tandy are one of the world's largest electrical retallers with over 8,000 shops to their credit. Known as Radio Shack in the United States, Tandy have been selling CB equipment for years and are very know-ledgeable in this subject. The rig itself is of straightforward design and looks fairly simple to operate.



GLOSSARY OF SYMBOLS



Volume Control



Squeich Control



Tone Control



Radio Frequency Gain Control



Microphone Gain Control



Signal Strength/Power/ SWR Meter



Tone Switch



Local/Distance Switch



Attenuator Switch; Front or Back Panel



Amount of Channels



0

Channel Change Control



Channel Change on Microphone





Channel Change; Push Button



Channel 9 Select Switch



Delta Tune Switch



End Transmission Signal



(Roger, Etc.)



Extension Speaker Facility Public Address System



Transmit/Receive Indicator Lights



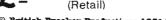
27MHz FM



934MHz UHF



Panel Light Dimmer Switch Over £70/Under £70

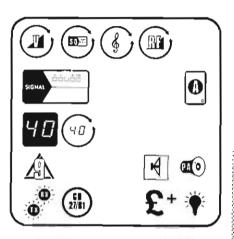


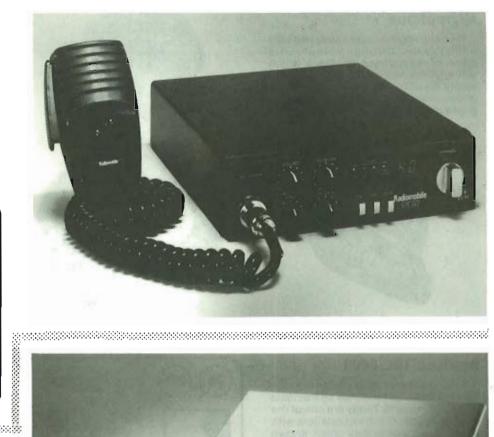
© British Breaker Productions 1981/1982

27 FM

The Radiomobile 202

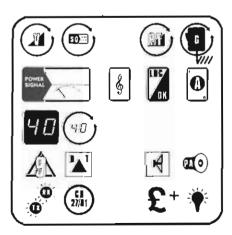
Radiomobile have established themselves as brand leaders in the In Car Entertainment industry and CB to them is a natural extension of their business. Radiomobile's policy has been to aim for better quality and better styling in a slightly higher price bracket. Both of the sets from Radiomobile are 'good lookers' without being too fussy. Although Radiomobile are a British company their equipment is made for them in the Far East.

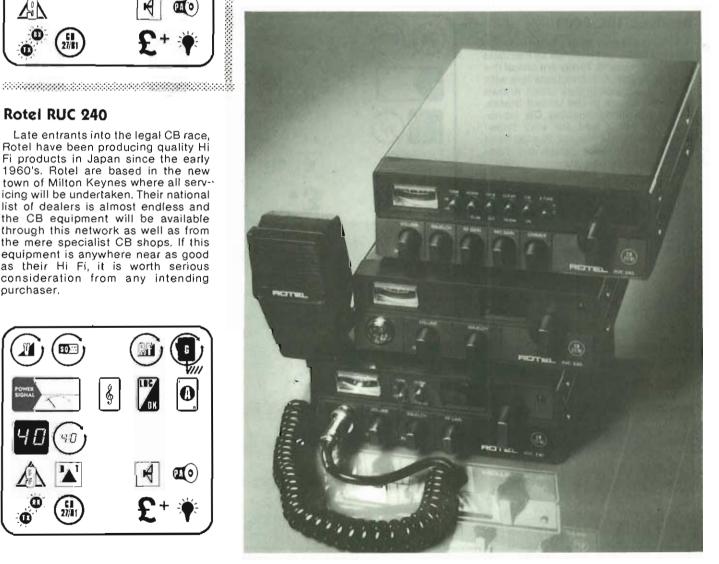




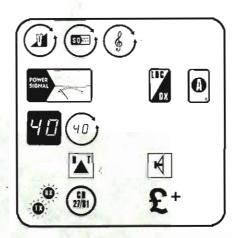
Rotel RUC 240

Late entrants into the legal CB race, Rotel have been producing quality Hi Fi products in Japan since the early 1960's. Rotel are based in the new town of Milton Keynes where all servicing will be undertaken. Their national list of dealers is almost endless and the CB equipment will be available through this network as well as from the mere specialist CB shops, If this equipment is anywhere near as good as their Hi Fi, it is worth serious consideration from any intending purchaser.





Products



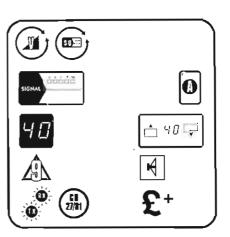


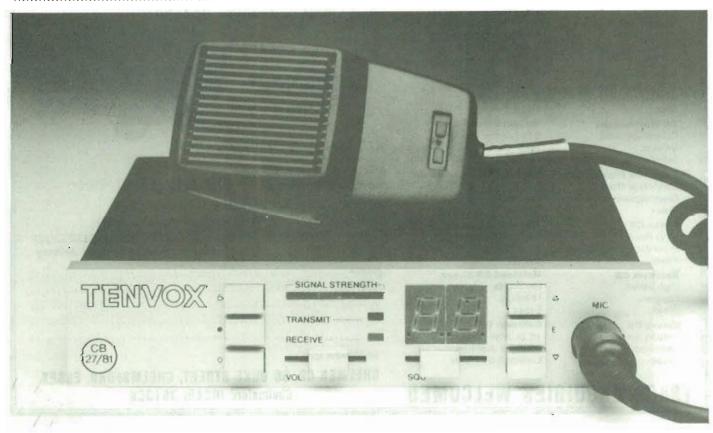
Tenvox

Voxon Audio have designed a totally new-looking rig which is completely built in the UK. Slider controls and push buttons replace the now standard knobs and dials to make the styling of this rig one of my personal favourites. I'm happy to see a British manufacturer doing something positive at last. The loudspeaker on this rig is not built into the case but supplied as a separate item for shelf or under dash mounting.

ENVOX 🗟







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CB Radio November 81

25

CBR1

Readers Write

Dear Sir,

Having 'run' a number of Americanstyle rigs for some time now, I was really looking forward to getting a new legal CB radio, built for the UK market, designed for use in RIGHT-HAND DRIVE cars, and eliminating the hassle caused by a mike lead which appeared to have a mind of its own by ending up wrapped around the gear stick, steering wheel and the seat-covers appendages. However, I find, from the vast amount of pre-launch literature which is now falling on my mat daily, that NO ONE, I repeat, NO ONE, has thought to change the mike lead to enter the rig on the RIGHT side. Surely this, for safety, should have been a prime consideration. Even the fact that many mike leads needs re-threading after periods of use, causing kinks in the lead, must have made prospective new-rig manufacturers think this over.

What do other breakers think about this? Surely it would not take much to have the lead on the UK side?

Three Legs (Reading)

Take a look at our rig into page. There is at least one with the lead on the right.

Dear Sir.

Why does our Government have to be different to everybody else? E.g. Driving on the left-hand side of the road instead of the right; 240 volts mains instead of 110 volts; UHF television instead of VHF television and now CB on FM 27.60125 to 27.99125. WHY?

If AM CB interferes with hospitals' kidney machines and heart machines, etc., then why do the caller devices that alert the doctors of emergencies in hospitals work on AM? (Channel 2 in the case of our local hospital). Surely they would interfere if CB does?

Every local breaker I know stays clear of channels 1, 2 and 3 so as not to interfere with the hospital channel and all visitors are told that channel 2 is the hospital channel.

If the Government do so dearly want CB on FM, I wouldn't make any fuss if it was FM 26.965 to 27.405 (the same frequencies as AM but on FM).

Then it would only cost about £10 to £15 to convert an AM rig to FM, none of this £30 to £50 or buy a new rig attitude that the Government is giving us at the moment.

Please leave the 27.60125 to 27.99125 and 934.025 to 934.975 to all the businessmen who think they're onto a good thing with the legalisation of CB and are going to bung up the airways with business deals and give the British CB enthusiast FM 26.965 to 27.405 (and perhaps sidebands for DX-ing at a later date).

Yours faithfully, CB Crusader (David Brown) (Cornwall)

The problem with existing frequencies, i.e. AM but converted to FM, would be AM breakthrough which would virtually negate the use of FM. If you really do want FM then like it or not legal FM is a better bet. Quite honestly, your worry about businessmen is totally unfounded. Many other publications have harped on about small business use, mainly for something to writel Imagine, if you can, attempting to run a business with a CB next to your secretary and all the rubbish of CB blaring over. One-four for a copy, break for a radio check and so on, It simply won't work without illegal coding or selective paging! Businesses would be better advised to save their money and buy a RT.

Dear CB Radio,

In response to your article 'On a Serious Note" in September edition of CB Radio and in particular the section headed "Civil Disorder and CB", we feel we must point out the section that was taken on the Wirral during the weekend of the main rioting on Merseyside.

After Mr. Anderton's criticism in the Press that CB was used to benefit the rioters and looters in Manchester, The Wirral Citizen Band Association and The Apollo CB Club held a joint meeting on the Friday evening before the rioting was expected. We were determined that Merseyside would not be criticised in the way Manchester was and we agreed that there was one of the two courses of action open to us, either:

- 1. Completely wipe out the 27 megs band plus some of the 26 and 28 megs band or
- 2. Monitor every channel which could possibly be used.

Eventually it was decided that it would not be fair for responsible CB'ers to wipe their hobby out for a complete weekend, so monitoring services were set up to cover 26 megs through to 28.3 megs. This service commenced 8.00pm on the Friday evening through to 8.00am the following Monday morning without any break whatsoever.

As a result we can safely assure Mr. Oxford (Chief Constable of Merseyside) and Mr. Whitelaw (Home Secretary) and for that matter, any other interested parties, that in no way was CB radic used on Merseyside to organise rioting.

I and all my colleagues feel that the operation was a complete success and although many boring hours were spent monitoring we have peace of mind in the knowledge that nobody can criticise Merseyside CB'ers.

In hindsight, the only mistake we made (call it an oversight rather than a

mistake) was that the 49 meg walkie talkie band was not covered.

Yours sincerely,

D. J. Rimmer (Wirral Citizen Band Association)

Dear Editor,

AM is dead. Unfortunately the UBA don't think so! It is an outdated mode. FM is better.

UBA have fought a great fight against the powers that be but are living in the past. AM is not for the '80s, FM is!

We want a national organisation for CB users, not a hotchpotch of socalled associations otherwise mayhem will prevail. The behaviour on the bands at the moment is disgusting. Swearing is rife and having only one calling channel is stupid.

I propose the following that must be done for CB to last:

- 1. Good set of rules to adhere to.
- 2. One organisation controlling CB.
 3. One net channel and three calling
- channels.
 4. Forty channels FM and 80 chan-
- nels SSB by 1983 or 120 channels FM. nels FM. 5. The use of the amateur 28.5 band
- in conjunction with the RSGB.

 6. A working party to promote ideas
- and thrash out some sort of solutions with RSGB and the National CB Association.

Yours cheerfully,

Chris Lee (Romford) P.S. Latest rumour - by Easter AM will be legal. What a joke!

Dear Sir,

Seeing as though the Government wanted FM, why not FM 26.965 to 27.405? It would have been a lot easier than FM 27.60125 to 27.99125.

Then all the AM breakers would have to do was to fit an FM conversion board (which cost about £8 to £10) to their rips

Seeing as though we're stuck with the new frequencies, why doesn't a company bring out a rig with AM 26.965 to 27.405 and FM 27.60125 to 27.99125 on it?

So what if the AM part is illegal, most things you do these days are.

I mean, who cares if somebody with only AM sends out a 10-33 and the breakers on FM can't hear and vice versa? (Well, I do).

At least if someone has a rig with both wavelengths and the right trequencies on it they can relay the message to breakers who only have FM or only AM.

continued . . .

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Readers Write

continued . . .

I still haven't decided what type of rig to buy (AM or FM). I don't want to buy two rigs as this would cost too much and take up too much space.

So please, someone bring out a rig with both wavelengths and the correct frequencies on it. (Or is there one already?)

Yours faithfully,

David Brown (Penzance)

Yes, here it is illegal, fetches around £300 and we must tell you not to purchase one. It's a Ham International Jumbo or the Excallbur, they're both similar and tune across mid 25 to 28MHz with AM/FM and SSB modes.

Dear Readers Write,

From the October Issue of CB Radio I am pleased, no, super satisfied, to see that our knlght in shining armour, Sir Patrick Wall, has actually cornered Mr. Whitelaw into admission of pressure from the EEC over his oddball open channel idea of CB - note my printed letter of Speak Out, July 81!

Incidentally, the "Consultants" are Euro Consulting Engineers Luxembourg (GDL), Rue G Schnieder 38, Luxembourg. A Sig. Mario Corvi Lazzera is the co-ordinator.

Now should you want Euro CB to be AM SSB and FM with at least 120 channels and freedom to DX to your Greek or German friends, sensible power limits like 25 watts or 75 watts SSB then rise from your apathy and get those pencils working.

You can bet your life that Mr. Whitelaw has put up all his biased arguments to the detriment of AM and SSB, not to mention his hatred for the conventional channel frequencies. Such negative propaganda can only be countered by letters, letters and more letters to these consultants.

Your Euro MP and the Secretariat of the Commission are worth pushing

For your Euro MP, write c/o The European Parliament, Brussels, Belgium.

For the Secretariat of the Commission, 200 Rue de la Loi 1049, Brussels, Belgium.

The latest info from CB-land beyond 'the pond' – direct from the FCC no less - is that dear Uncle Sam is close to allocating a further 25 channels for exclusive SSB. The FCC can foresee continued oversubscription and may be willing to extend the basic AM provision as well. From the tone of their letter it would seem that they have done what they can to influence our H.O. into accepting 27MHz AM. Probably to the point of severed relations, as I have been asked to forward all and any news of progress in the UK! They had not even seen MPT 1320 but should have a copy by now blow the Crown Copyright, Rank Xerox provided the goods.

Still, whatever your preferences are, AM v FM, no one can rightly disagree that 2 watts ERP 40 channels on oddball frequencies and cut down twigs at near enough ground level is still open channel and not by any means effective CB. Don't let us be conned into buying "Whitelaw rigs" when next year could well see the end of them!

The article "B & P Don't Mix" is ranking as one of the most responsible answers to RF interference so far printed. Having for some years been involved with the use of highly sensitive electronic monitoring equipment where fluctuations of ±0.1 mill volt are significant and micro volts are common units, I have NEVER had reason to suspect CB as a source of interference. Despite an international road freight yard next door and colleagues modulating in the adjacent car park. Evey single spurious response on the equipment has been positively traced to such things as air compressor switch gear, 'spikes' in the 440v threephase circuits and CEGB supply, even dodgy fluorescent light units have been proven guilty. Hospitals and the like are only too ready to blame CB for malfunctions in equipment that is far more likely to be due to other equipment of their own. Hospital equipment manufacturers have a world-wide market and exactly the same equipment is found in French, Italian, American and even Kenyan hospitals and no question about it RF screening is an absolute No. 1 consideration in its design - after all, 27MHz page systems are not exactly hen's teeth in hospitals! Yet time and again any Tom, Dick or Harry of a hospital spokesman can blame AM CB and the media splash it as headline news without auestion.

2 I can't over emphasise the importance of individual effort in killing off one way or another this despicable sham for CB. I refer to Mr. Whitelaw's Open Channel MPT 1320. The authorities here and in Europe MUST hear our aspirations or else we will get just what our anothy deserves.

what our apathy deserves. Yours sincerely,

Martin E. J. Wright (High Wycombe)

Dear Sir.

Thank you, from the bottom of our hearts, to all you lovely breakers. On 17 September, our daughter, Mini Bitch (Karen), aged 10, was admitted to Ward 9, Wexham Park Hospital, Slough with heart failure caused by damaged kidneys. Some of our local good buddies took a collection for her and another lent her a monitor which we put beside her bed. This was tuned to channel 34 for the local breakers to say "Hello" to her when travelling to and from work.

Word spread to the truckers on channel 19 and before we knew what was happening she had cards, telephone calls and flowers. Thank you all very much for your concern and all the lovely things you have sent. It is nice to know that there are an awful lot of caring people around. The good news is that Karen is better and coming home every weekend, although her treatment won't end for some time yet and she will have to have a kidney transplant in the future. Thank you, again, for everything.

73's, 51's and 88's to you all. Mini Bitch, The Bitch and Plastic Rabbit

Dear CB Radio,

I bought the August 1981 CB Radio. more curious about what was going on regarding legality than anything else, but I finally got round to reading about the Birmingham and Cornwall convoys and the surprising finish to this article. For the Cornwallites to make their protest in London was doomed from the start. They should have used one of the W.S.W. cities where supporters could have been drawn in from all directions. As it was they could only crusade en route. But more important (organisers take note) is the different attitude of the London public to provincial demos plus the 'curious' situation regarding the two London police forces, which are under the control of the Home Secretary and not a Chief Constable who could report to a Watch Committee. This isolates the London forces from the public and as these forces are used primarily to enforce Government measures the people of London are not eager to upset these forces by supporting any provincial fracas. Added to this is the biased ignorance of Londoners towards CB generally (and here I might add that a 10-1 to CB publications is not out of place, as their fear of the law is anathema to breakers, who are law breakers).

The CB mags must give more publicity to the London CB clubs. Also these mags should be asking direct questions of the Government as to why it is determined to continue to ignore the rights of the people to use a natural phenomenon to their advantage. Daylight was a similar situation hindered by a window tax.

A. Prowse (London N9)

May I suggest that you ensure any London club that you are associated with registers with us. For we have never been afraid of the Law, hence we are the only magazine running a The Law and You' spot. The National Club Register will contain the stance of AM and/or FM clubs, thus communication between clubs should be easy and the Birmingham turn out obtained!

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Rig Test



Amstrads 900 and 901, a practical test

Now that CB is legal we thought we should kick off our rig spot with one of the first companies to approach us clasping operable 27 FM transceivers. Obviously with the short time in which companies have had to prepare for legalisation, it is inevitable that equipment first launched or announced would be modified, improved or even totally changed.

Amstrad have actually restyled their 900 and 901 quite considerably since their first announcement. So beware of older reports detailing features, they may be out of date. The difference is quite easy to spot.

Firstly, the original prototypes did not carry the CB 27/81 mark and thus this does not appear on any photos. Secondly, Amstrad have improved their 900 considerably, adding two controls, a tone and an RF gain. The LED signal strength meter has also been re-styled from round, sunken LED's to square, flush fitting. This enhances the whole appearance of the rig.

With the 901 the same two controls have been added, tone and RF gain, the LED's are again changed to flush and re-styled to balance, with the PA and Roger LED's side by side offsetting the RX, TX (receiving and transmitting) LED's. The prototype 901 showed five push buttons. Now with the addition of the tone, RF gain as variable controls, this has left just three push buttons, a PA-CB, a Roger tone and a channel 9 switch. These have been moved closer together and placed neatly between the channel change and the RF gain control.

With these improvements both the 900 and the 901 are now very smart, clean and professional-looking rigs.

A practical test

The decision to eventually legalise 27 FM was unfortunately a Government compromise made only because 27 AM exists and is in wide legal use. Arguments by the Government used against breakers have always quoted interference as the reason for not legalising AM. In retort, existing breakers have argued that FM is useless and will not work.

Therefore the tests we carried out were practical and designed to set the record straight or at least let you decide who is right.

Base to mobile

The Amstrad 900 was set up as the base station using an antenna mounted on a flat roof with its base just under seven meters from the ground. Thus attenuation at the base station was not legally required.

The Amstrad 901 was placed in our Escort van and connected to a Cheroke Half Breed mounted centrally on the roof and an SWR reading of 1.1 to 1 was easily achieved.

Using channel 20 signal readings were taken over a given route of a known distance. The readings were taken at each end, both base and mobile. For the purposes of the test only good intelligible readable signals were recorded so the feasible operable range could be determined, not maximum range.

Ranges Obtained

All distances quoted are point to point across country, not road distances. The terrain is medium to flat, reasonably well developed with a high building density, average height 35ft.

Base Receiving	Mobile Receiving	Distance (miles)
+20	+20	-1
+20	+20	1 1/2
20-	+20	2
+9	20	21/2
+7	+9	3
7	9-	31/2
7-	+7	4
5	7	41/2
+3	5	5

Beyond this range an intelligible conversation proves difficult operating a legally-placed base station antenna not more than 1.5 metres in length and 7 metres high.

From the table one can see that conforming with all the legal requirements, three to four miles base to mobile range is easily obtainable. However, whilst testing we came across someone testing another 27 FM rig, using an Avanti Sigma IV mounted over 28ft high. With this a range of over 13 miles was easily obtained from our mobile at Teddington to his base at Croydon with strength 7 reception.

Mobile to mobile

For this the Amstrad 901 was left in the Escort van connected to the Cherokee Half Breed and the Amstrad 900 was placed in an Escort Hatchback using a magnetic mounted Cherokee Dial a Match. Again a 1.1 to 1 SWR was obtained on channel 20 and we set off in opposite directions giving signal tests at known landmarks. Expecting a great reduction in range, the first pleasant surprise was that the squelch control could be fully on, thus losing all the background hush, yet retaining a nice clear signal strength.

901 mobile	900 mobile	Distance (miles)
+20	+20	1/2
+20	+20	1
+20	+20	11/2
20	20	2
+9	+9	21/2
7	+7	3
5	5	31/2
3	5-	4
3-	3-	41/2

Beyond and around 4 to 472 miles distance, depending on terrain, audibility became lost in what AM breakthrough there was.

Having used Illegal AM in this country more times than I should admit to, I can honestly say that the quality of reception was very good. The squelch control could be left fully clockwise leaving us with no background hush or interference for some 75 to 80% of the range testing. Audability was good although the FM signal was slightly more prone to hilly terrain. The results we obtained compare favourably with mobile AM operation.

Repeated again

Not satisfied with our original results and being of a doubting mind we carried the tests out again in daylight hours and at night. The night tests proved that the normal laws of physics apply to FM and our ranges obtained were improved slightly.

It was whilst driving mobile to mobile that we copied another 27 FM mobile. Fidelity were testing various antenna in the Denham area. Again the ranges obtained with a three-way conversation were around three miles with a reasonable strength signal.



Manufacturer's Specifications

Type of Emission: F3 Channel Spacing: 10KHz

Frequency Composition: PLL Synthesizer

Power Source: 12V DC Negative or Positive Earth (nominal)

Operating Temperature Range: -5°C - +45°C

Dual Conversion Superheterodyne 1st IF: 10.895MHz 2nd IF: 455KHz

0.5uV (20dB S/W)

45dB for Standard

less than -10dB NQ

50uV maximum

60dB nominal

45dB nominal

Stand-by

nominal

nominal

less than 20nW

4 watts at 4 ohm 2 watts at 8 ohm +2 to -8d8 per 6d8/ OCT at 0.3 - 3KHz

Receiving max. 0.8A

0.25A

nominal

level (approx. 0.15 to 0.2uV)

Electric Specifications Receiver Section

a Receiver System

b Intermediate Freq.

c Sensitivity

d Adjacent Channel

Selectivity

(@+10KHz)
e Squeich Threshold
Sensitivity

f Squelch Tight

Sensitivity g Spurious Response

attenuation h Image Rejection i Receiver Spurlous

Emissions
) Audio output power
(@10% THD at 1KHz)

(@10% THD at 1KH k Audio Freq. Response

I Current Drain

Transmitter Section
a RF output power
b Freq. Oevilation ±2.5KHz max.

b Freq. Oevlation
(6 1KHz)
c Audie Freq. +2 to -5dB per 6dB/
Pesponse OCT at 0.3 - 3.0KHz
pre-emphasise

d Spurious emission

80-85MHz 87.5-118MHz

135-136MHz 174-230MHz 470-882MHz Other Freqs.

e Adjacent channel power

Current drain @12.0V less than 0.25uW less than 10uW

less than 50nW

2A nominal



Later we arranged a three-way lest with Fidelity One using a base station in Denham, the Amstrad 900 as a base in Hayes and the Amstrad 901 mobile just past Feltham.

Denham base recelving	Hayes b		Mobile eceiving
+9	*		
3			*
*	9		
	+5		*
*			+3
	*		5
The stars i	ndicate	which	station's

The stars indicate which station's signal was being received and the strength of that station is indicated in the receiving station's column.

The distance from our mobile to Denham was around 11 miles, from our base to Denham is seven miles and from our mobile to our base five miles.





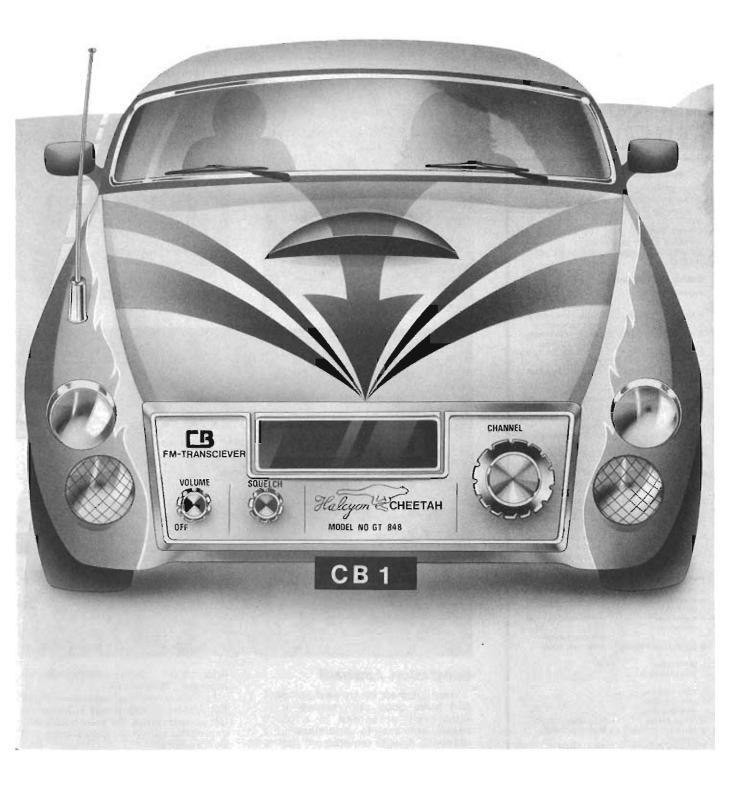
Conclusion Amstrad!

The equipment is very neat, compact and gives good performance. It is attractively presented in a black casing with easy-to-understand LED readouts. A legal requirement that is fitted is the attenuator, which is easily accessable and positively switching

thus power cannot accidentally be reduced unknowingly.

For the intending purchaser of 27 FM, Amstrads 900 or 901 must not be left unconsidered. We were personally impressed with their appearance and performance.

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CB Radio November 81

32

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performance either as a mobile rig or as a home base station. We also include a step by step guide for first time CB'ers as well as a cassette that tells how to put it all together, and a manual with all the technical details.

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ASTRO 8 BASE ANTENNA	
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GROUND PLANE KIT	
BASIC SWR	
SWR/FS/POWER METER	
SWR/FS/POWER/DUMMY LOAD/	
MODULATION/CRYSTAL METER	
60W AM/SSB BURNER	
100W SKIPMASTER	
150W SKIPMASTER	
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MATCHER.	
SPLITTER	
MOSILE RETRACTABLE	***************************************
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DX 27	
K27	
127	
K27 TRIBAND AND SPLITTER	
K40 ANTENNA	
2. FIRESTIK	
7' FIRESTIK	
TWIN FIRESTIK	
ECONOMY MAG MOUNT	PERFECULTURE DOCUMENT
DX 5/8	
4 HYGAIN GYPSY	
RG58 COAX	2
RGB COAX	
PL259	
49 MHz WALKIE TALKIES	
GUTTERMOUNT	
CB/AM/FM MONITOR AND RADIO	
REPLACEMENT MIKES	
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N.B. All advertised CB accessories marked with an asterisk are too large to post, so callers only for these. For all other CB accessories add 50p per item. Tee shirt, cap and badge prices are all quoted inclusive of postage.

Colt, Cobra, Hygain, President, GEC in stock at present from £55. Good range of SSB usually available - please phone. Cheques/PO with order to

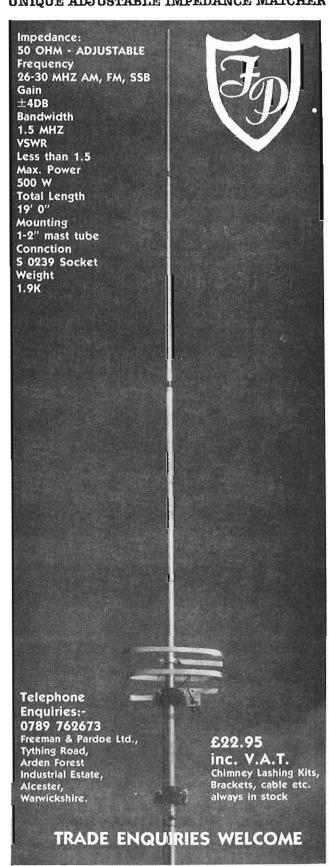
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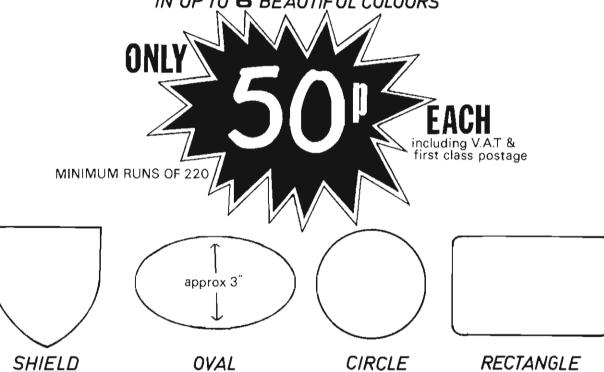
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(2) WHAT COLOUR TRIM AROUND THE EDGE

(3) WHAT FOUR COLOURS OF STITCHING

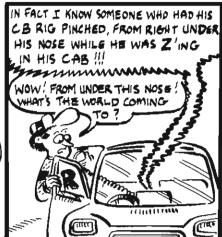
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CB Radio November 81 35













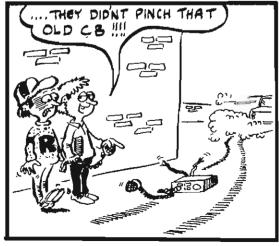














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CB TIMES: " it's not often that a product bursts onto the market scene, dominates and improves CB'ing for everyone. American Antenna and the K40 are doing it—repeated tests showed the K40 could out-perform the major competitive brands.

RADIO ELECTRONICS: "The results of our tests showed that, in three different positions of the monitoring receiver, the model K40 equaled or out-performed the competitive antenna. Apparently, American Antenna's advertising is not merely Madison Avenue showmanship."

PERSONAL COMMUNICATIONS: ". 95% of the trials, the K40 out-performed the existing mobile antennas. We had to try one for ourselves.

in every case, the K40 either equaled or out-performed its competitor.

"No ifs, ands, or buts! The K40 Antenna from American Antenna would have to be just about the best antenna around

CB MAGAZINE: "Introduced in October, 1977, the K40 quickly became the top seller and in mid 1978, became the number one selling antenna in the nation."

... Here's what CB'ers all across the U.S.A. said.

ANTENNA SPECIALISTS: "... truck driver and CB'er for 10 years ... 50% further than my M410 'Big Momma'."

- J.H. Collett, 207 McFee, Bastrop, LA

AVANTI: "I'm an electronic technician with a Second Class FCC license . . . I was able to transmit 70% further and tune the SWR 75% lower than my Avanti."

-H.R. Castro, VRB, Monserrante D-67, Salinas, Puerto Rico

PAL: "... 20% better in transmission and reception than my 5/8 wave Pal Firestik."

-John A. Blum, Box 445, Zellenolple, PA

SHAKESPEARE: "... I've been a CB'er for three years and the K40 is the best I've ever had. Better in reception and transmission than my Shakespeare."

-H. Bachert, Jr., 15 King Rd., Park Ridge, NJ

HUSTLER: "Compared to my Hustler XBLT-4, the K40 can consistently transmit 40% further and the reception was better. The K40 is the perfect way to complete a CB system."

-Jerome R. Brown, 7800 S. Linder, Burbank, IL

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BEGINNER:



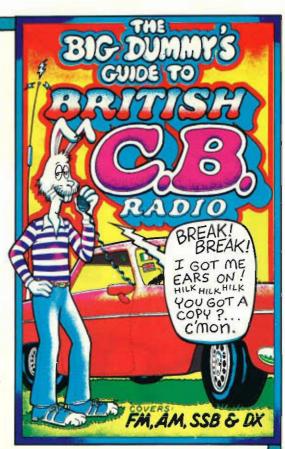
AMERICAN ANTENNA ELGIN, IL 60120 U.S.A.

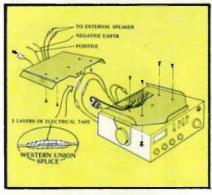
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The new British version of the million seller "CB book that broke the breakers in,"

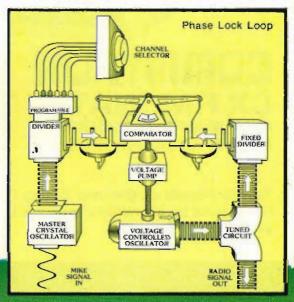




Installation of Slide Mount

contains the latest information about FM, AM, SSB, HAM, SKIP and DX. This is a humorous and down-to-earth manual that covers CB slang and how to talk on the air, buying and installing radios and antennas, troubleshooting your rig, Home Office regulations, do-it-yourself antennas and emergency procedures. It includes new charts, codes, graphs and reference guides that no radio enthusiast should be without. Whether you are a casual beginner or an experienced breaker, this book is designed to help you get out!





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- (4) Damage arising out of the installation or repair of insured items.
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 Note: Confiscation Cover is not provided by Lloyds of London but a Swiss reinsurer.

If you require this insurance please complete below and send to the above address with cheque for the correct amount. A Certificate of Insurance will be issued upon acceptance.

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DETAILS OF EQUIPMENT Y Make	ear of ufacture Serial No	
PREMIUM CALCULATION		(Base/Moone)
1. Value £ @ 10% = £ Plus conf	iscation (if required) £7/£5 TOTAL :	£
2. Value £ @ 10% = £ Plus conf	iscation (if required) £7/£5 TOTAL :	£
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	CHEQUE ENCLOSED	ε
I/We declare that I/We have not withheld any materia the best of my/our knowledge and belief and that the person has any interest thereon whether as owner, more	l information and that all statements made articles and property described belong to n	on this form are true to

CB Radio November 81 41

The information contained in this proposal will be treated in the strictest of confidence between the Brokers and Lloyd's Underwriters ONLY.

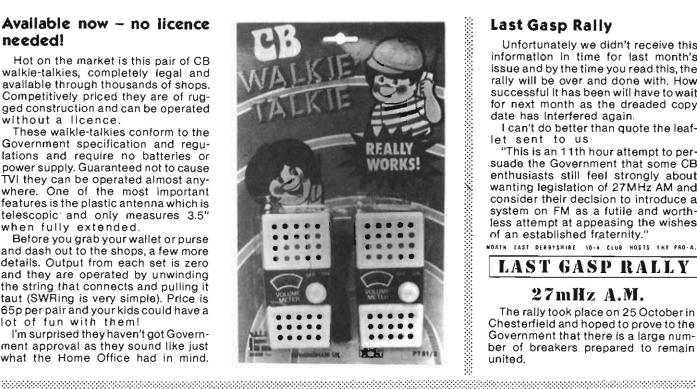
Available now - no licence needed!

Hot on the market is this pair of CB walkie-talkies, completely legal and available through thousands of shops. Competitively priced they are of rugged construction and can be operated without a licence.

These walkle-talkies conform to the Government specification and regulations and require no batteries or power supply. Guaranteed not to cause TVI they can be operated almost anywhere. One of the most important features is the plastic antenna which is telescopic and only measures 3.5" when fully extended.

Before you grab your wallet or purse and dash out to the shops, a few more details. Output from each set is zero and they are operated by unwinding the string that connects and pulling it taut (SWRing is very simple). Price is 65p per pair and your kids could have a lot of fun with them!

I'm surprised they haven't got Government approval as they sound like just what the Home Office had in mind.



Last Gasp Rally

Unfortunately we didn't receive this information in time for last month's issue and by the time you read this, the rally will be over and done with. How successful It has been will have to wait for next month as the dreaded copy date has Interfered again.

I can't do better than quote the leaflet sent to us

"This is an 11th hour attempt to persuade the Government that some CB enthusiasts still feel strongly about wanting legislation of 27MHz AM and consider their decision to introduce a system on FM as a futile and worthless attempt at appeasing the wishes of an established fraternity."

NORTH EAST DERBYSHIRE 10-4 CLUB HOSTS THE PRO-A.M.

LAST GASP RALLY

27mHz A.M.

The rally took place on 25 October in Chesterfield and hoped to prove to the Government that there is a large number of breakers prepared to remain united.

S.W.A.T. a bucketmouth

Almost every breaker we speak to complains of bad manners, bad language and misuse on channel and it seems to affect every area. Many

breakers say why can't we, the magagazine, try and do something about it but this is very difficult as the people daft enough to do that sort of thing are not likely to take notice of us telling them not to.



Breakers in South Wales have taken the problem into their own hands and formed the South Wales Action Team and, aided by sophisticated DF equipment, try to track or trace offenders. They hope as the problem decreases they can act as a back up for emergency networks in the area. S.W.A.T. are eager to emphasize that they are not a heavy mob and are not trying to set themselves up in judgement on others. Anyone interested in joining or helping should ring Speedbird on Liantrisant 225190.

Easy as ABC

When we open the post in at the offices we are often amazed at the professionalism of many clubs. Beautifully designed logos, headed letter paper and obviously a well-organised committee. All this seems to apply to the All Breakers Club of Deptford, South East London - just look at their club logo.

Although only recently formed, the club has adopted a charity and all their fund-raising efforts will be directed to helping that charity - the Infantile Hypercalcaemia Foundation. The information on the Foundation that came with ABC's letter indicates that the charity is only small and very short of funds, so its nice to see the support that the club has pledged.

P.S. The club meets at 190 Evelyn Street, London SE8 if you would like to go along.



Ello, ello, ello

Red Razor of Shepton Mallet sent us a news clipping from his local paper entitled 'Police Corner'. He thought it might be suitable for News Review but since that was full we couldn't resist putting it in Round Up.

Supt. John Lee comments on the number of rigs stolen in the area and that many are not reported as the owners are reluctant to own up to their illegal hobby. However, Crime Prevention Officer Sgt. Paula Wheeler urges breakers to report thefts to the police as "they are really interested in the thieves who steal the rigs".

Sgt. Wheeler adds further advice for avoiding rig theft and adds "Leaflets concerning car alarms are available from your local bear caves".

I am sure Sgt. Wheeler is perfectly sincere and it is nice to see that the police are taking an interest in CB but the 'slanguage' used made us all giggle a bit. Somehow it seems all wrong coming from a police officer!

C.A.R.T. before the horse?

Another group of enterprising breakers based in Derbyshire have formed 'Catch a Rig Thief' or C.A.R.T. Concerned at the number of rigs being stolen, their aim is to register the models and serial numbers of stolen sets and have secondhand sets available for sale checked against this list. They also hope to include a list of confiscated rigs to check if they are resold.

C.A.R.T. are having considerable success in their own area and membership is available to anyone so they hope their cover will spread. Representatives are appointed on meeting strict requirements as they are responsible for holding the area's 'stolen' list and for checking rigs.

Anyone interested should contact P. Duggan at 72 Wood Street, Ilkeston, Derbys.



``_____

MANY thefts Citizens' Band radio equipment are not reported to the police because the owners are embarrassed to admit they have been using equipment which is, in the eyes of British Telecom and Customs and Excise, illegal.

But the theft of any property is crime, even if it is CB radio

is crime, even if it is CB radio equipment.
Sergeant Paula Wheeler, a crime prevention officer with the Somerset police, has written the following advice for breakers.

"Just lately, we have had a large number of rig thefts from breakers' wrappers," has says.

"I am only speaking to those who understand. I have been speaking to "Loose Goose" and he says: "Go to the police: they

are really interested in the

"That is certainly right," says Sergeant Wheeler.
"I am concerned about the

increasing thefts from you breakers. My advice is — hide your rigs, use a disguised I wig (you can get them locally) and don't leave your rig in your wrapper at night — take it to bed with you!

bed with you!

"Disconnect your twig, even if you leave the wrapper for a short while. OK, I know It is a nuisance — but it saves you losing £100."

Loose Goose' says: 'No

"Loose Goose' says: No eyeballs at present, unless you know the breaker."

And Sergeant Wheeler adds: "If possible, check to make sure it is a real smokey. Ask to see warrant cards. If in any doubt, put out a 1033 for assistance." At night, be more careful

'At night, be more careful where you go on your own, especially on high ground or in toxitoics, and II) not 10 go

alone.

"Lock your wrapper and stay in it if approached until you are sure it is a real smokey. If it is not a marked wrapper, say you will follow them to the nearest bear cave or they can follow you. Police will cooperate. Of course, only take this action if you don't know it is the local smokey."
"So many breakers make no

is the local smokey."
"So many breakers make no attempt to hide their rigs. This is so foolish. It is an open invitation to have the rig nicked, just like leaving a window open in your house.
"Please hide the rig in the glove compartment or under the seal, or in the boot when you leave your wrapper. Better still, install a car alarm.
"Leaflets concerning the car

Leaflets concerning the car

alarms are available from your local bear caves." Ask for Sgt. Brian Healey if you live in the Mendip area or Sgt. Wheeler if you live near Yeovil.

Newark Breakers Club do their bit

Newark Breakers Club in Nottinghamshire have been fund raising for the Newark Mentally Handicapped Society and recently presented a cheque for £1,000 to the Society.

The money was raised through a sponsored walk which, with a lot of blisters and twisted muscles, started the account with over £600. A Summer Fayre raised the rest of the money, which was presented to the Society by the Lady Mayor, Mrs Dobson.





CBC

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BRITAIN'S BIGGEST NATIONAL EYEBALL

Hosted by the Chertsey 20-27 Club

at Thorpe Park, Chertsey, Surrey
Due to the vast growing interest in CB radio, many CB clubs have formed all over the country. Due to this interest, added to the legalisation of CB radio from 2 November 1981, Tony West and the Chertsey 20-27 Club, one of the biggest CB clubs in the south, have got together to orangise 'Britain's Biggest National Eyeball'.

It's being held on Sunday, 22 November 1981 between 2.00pm and 11.30pm at Thorpe Park in Chertsey.

The event is aimed at both entertaining and informing anyone interested in CB. During the afternoon there will be trade exhibitions, stalls, a visit from the Radio 210 CB programme, Cinema 180, roller skating and amusements with food and bar

In the evening there will be lots of CB fun, with a visit from Radio 1 DJ Steve Wright, The Phil England Radio Luxembourg Roadshow, a dance troupe, big prizes, free parking all day and lots more.

Says Tony West: "This is going to be the CB event of the year with the best entertainment available. We're offering discounts for clubs and party bookings."

Tickets are only £2.00 per person. Groups of 20 or more £1.75 per person.

For more details or tickets write now to:

20-27 Promotions, 33 Church Road, Chalvey Down, Ascot, Berks

PT Promotions, 59 Alma Road, Windsor, Berks SL4 3HH



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CB Radio November 81 45

NEWS RHVHW

More what the papers say!

By the time you read this article, 2 November, the date confirmed by the Home Office for the introduction of legal CB, will be only a few days away. Although feelings about the new system are varied, the one thing that cannot be denied is that this will be the biggest break that British CB has had to date. Whether the vast majority of existing breakers are willing to accept the legal system or not it is certain that there will be a massive boom in trade. The revenue mainly coming from members of the public who have been up to now afraid to use CB because of its illegality. This will eventually result in CB radio cornering a greater slice of the community and rendering its advantages far more beneficially to the general public.

What has all this got to do with "News Review"? The main area of interest will be in comparing the amount of press coverage given to CB related activities before and after the big day and also whether the charity events will be as frequent as they have been over the past 12 months. Whatever the consequences, by reading this series it will be possible to observe over the coming months the changes, if any, to the public image of the average breaker.

CB radio takes to the air ness World I Citizens' Band gels date CB will be CHARLETT PROPERTY Date is next winner fixed for CB lor Amstrad radio CB Hoences be legal with £10 licence CB tunes in to the law CB tunes to the law RIOTO LEGAL FROM CHIZENE BAND CB rivals are all set PARS NEXT MONTH FOR BIG NOT SWITCH-ON DAY FOR CB'S GOOD

> BUDDIES Joy on the ale as the

breakers' celebrate

As can be seen from the above collage, most of the newspepers were dealing with the 2 November announcement.

Seeing as how this has already gained more than it's fair share of coverage by us this month, the rest of the news items are on the general AM coverage.

It will be interesting to note if there is any distinction made in future press

Daily Telegraph

G VALLA NEWAT NOW IT'S LEGAL

Father's CB fire call could have cost girl's life

This is only one of several articles that appeared following this incident, which occurred in the early part of September. After trying three times to rescue his three-year-old daughter, Gail, from a smoke-filled bedroom, without success, Mr. Kevin Hutchinson, of Wade Street, Sheffield, put out a call for help on his CB set. Meanwhile, Gall was rescued by a neighbour and luckly was not seriously hurt. Fire Station Officer Frank Brearly described the father's action as "irresponsible". He said that when Mr. Hutchinson was relying on someone actually hearing this message and getting the correct address and information, it was a dangerous thing to do and it could have cost the little girl's life.

In defence of his action, Mr. Hutchinson said that it is at least three minutes to the nearest telephone box which is invariably out of order, and that none of his neighbours are on the telephone, and also that if it had not been for his CB radio his little girl would not be alive. His wife, Diana, said that her husband could not take the risk of running to a phone box only to find it out of order and that as it was the ambulance and fire brigade were present within minutes of the CB call going out.

queeze of CB

By REGINALD WHITE

FAN Chris Perry put the CR equeeze on a youth he was interrogating.

He dropped a boa constrictor into his lap-and terrified in into talking. Perry — call-sign Python — wanted the names of peoplo he believed were persecuting him, a court heart yesterday.

He claimed a feud developed over membership of a CB club ... helped to run.

to run.

And he was furlous when milk bottles were hurled into his garden at Rectory Road, Blackpool.

Boa

He invited" 16-year-old Warren Myerscough to his home in a bid to sort things out. An argument developed and Perry,

28, struck Warren about

Then he reached into a tank containing four pet snakes — and propet snakes — and duced the 2ft boa

Butcher's assistant Perry admitted assault-ing Warren, of Vicarage Road, Blackpool, and was fined £50 by the town's magistrates.

Afterwards he said the

Afterwards he said the boy had never betti in any danger.
"So long as they'ro well fed these snakes are harmless." he added.
"My two kids play with them."



Chrls Perry, wife and boa yesterday,

Daily Mirror

Preacher's CB wife runs off with "Love Machine"

The wife of a church minister has vanished with a man known as "Love Machine", Jean Lewis, from Amblecote, West Midlands, found herself on the same wavelength as "Love Machine", more commonly known as David Allport, after buying her CB radio little more than a month ago. Reverend Jeff Lewis said that he thought that his wife's CB hobby was completely innocent and that he trusted her implicitly. "I blame CB radio for having brought them together and let them into temptation," he said.

Jean, whose handle was "Blue Angel", had become interested in CB through her 18-year-old stepson, Keith, and became so hooked that she would sit up until 5.00am in her car outside the flat talking to other breakers.

Jeff, a minister with the Universal Life Church of America, said that although he had used the set a couple of times he soon became fed up with the way it was dominating Jean's life. Jean vanished after setting off to pay some bills. Shortly after, she was seen with David and Sandra, her seven-yearold daughter by a previous marriage. Local breakers said that they had heard "Blue Angel" calling "Love Machine" shortly before the disappearance.

Keith said, "I got her hooked on CB. It's all my fault, but you can't really blame a little black box for what happens in two people's minds."

Daily Express

A channel for charities

"Eight CB radio enthusiasts are heading for a new channel battle." we are told by the "Express", "but not with the Government." The breakers from Downham Market, Norfolk, hope to raise hundreds of pounds for charity by crossing the English Channel on a raft made from aircraft tanks bolted together.

The crossing is being organised by Nick Allen, alias "Soldering Iron", who is quite certain that the raft will stand up to the journey.

Daily Star

Bad buddies' nude romp at roadside

A nude romp in a layby sent a woman pensioner and her friend round the bend.

They watched in horror from behind the curtains of their caravanette as eight young CB radio fans pranced naked in the moonlight. (It intrigues me to know how they knew they were breakers); The two women sald yesterday that they did not think that people dld this sort of thing. Police at Stafford say that they would like to interview eight men about the incident.

Sunday Times

RAF takes aim at CB radio

With only days to run before CB radio becomes legal in Britain, both RAF Strike Command and the Civil Aviation Authority have issued warnings that its use interferes with the vital radio beams which guide aircraft to land at airports.

The RAF confirmed on Friday that a CB transmission had closed down the instrument landing system at a military air field in the early part of September. A spokesman said that if there had been aircraft approaching at the time the consequences would be potentially dangerous. Strike Command subsequently issued warnings to all personnel.

The Civil Aviation Authority strongly opposes the proposed legal CB system because of the problems which arise from the harmonic echoes about the 27MH frequency, i.e. 54 and 108MHz.

Daily Mirror

Squeeze of CB Python

"CB fan Chris Perry put the squeeze on a youth he was interrogating," we are told by the Mirror. "He dropped a boa constrictor into his lap - and terrified him into talking." Perry, whose handle is "Python", apparently wanted the names of people he believed were persecuting him. The feud developed over membership of a CB club that Chris helps to run which resulted in milk bottles being thrown into his garden at Rectory Road, Blackpool. To try to rectify the situation he Invited 16year-old Warren Myerscough to his home. The ensuing argument resulted in Warren being struck about the head. Perry then reached into a tank and produced a 2ft boa constrictor. In the following court case, Perry admitted assaulting Warren and was fined £50 by local magistrates.

Afterwards he stated that the boy had never been in danger and that as

MICHAEL HARRIS:

ANDREW WAINE:

long as the snakes are properly fed they are harmless.

Western Morning News

Radio gift to lifeboat

Five hundred pounds has been raised by the North Devon CB operators to buy a new ship to shore radio for the Ilfracombe lifeboat. The money was presented on 1st September by the North Devon Breakers Club. The money was raised by a sponsored three-legged pub crawl. (I bet it ended up as a legless pub crawl) through Combe Martin. They each drank a pint of beer at each of the resort's nine pubs and then repeated the course backwards to double the tally (18 pints? I was right, it was legless). The club's original intentions were to donate the money to the Lifeboat Institution, but on realising that this would have gone into a national pool, they decided to donate directly to the lifeboat.

Birmingham Evening

Keith will help breakers to get on air

Turnes Green School, in Longbridge Lane, Northfield, is to be one of the first schools in the country to offer evening classes in CB radio, provided enough people enrol. The course of 11 weekly 11/2-hour lessons will be chaired by CBA Secretary Mr. Keith Townsend. He will teach pupils the tricks and technicalities of CB in preparation for legal CB. Mr. Townsend, who holds one of the Government's Testing Licences, hopes to have examples of the new legal sets to show his classes.

The first couple of lessons will be fairly basic graduating to the finer points such as installation which can be covered as soon as licences are issued

Father tells why he didn't dial 999



blazing bedroom at Wade Sirect, take the risk of sunning to the phote Crimcithore.

Broadcasting a CB appeal instead of dialling 99 out valuable time, and dialling 99 out valuable time, and dialling 99 out valuable time. Said of dialling 99 out valuable time, and dialling 99 out valuable time, and dialling 99 out valuable time. Said stated to teach the socident.

But Mr Hutchinson, who was there instead to reach the socident, who was there were do reach to said with the said of the case of the society of the said of the case of the said of



CB Radio November 81

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NEWS RELEASE

New service legal next month

The new UK Citizens' Band radio service will start on 2 November. Licences to use CB will be obtainable over the counter at Post Offices from that date. Licence application forms are also being packaged by some manufacturers and distributors with new legal CB equipment which will be shortly on sale.

For an annual fee of £10, prospective CB users will be able to license the use of up to three sets using the 27MHz or 934MHz FM bands. Each additional payment of £10 will cover up to three more sets.

The licence governs:

-who can operate sets under the

-the conditions of use.

-permitted types of transmission, and

-specifled types of antennae.

The licence also carries examples of the mark of compliance that sets sold for the new legal service must carry on the front panel, a circle containing the legend CB 27/81 or CB 934/81.

The 27MHz AM sets being used illicitly at present will remain illegal because of the harm they cause to television, radio and the emergency services. They may, however, be modified to meet the specification of the new legal service, and HM Customs and Excise will shortly announce arrangements under which

this will be possible.

Mr. Timothy Raison, Minister of State at the Home Office and the Minister responsible for the CB service, said: "We welcome the beginning of the new legal CB system, which will give everybody a chance to use a personal radio communication service at work or at leisure. The frequencies we have allocated will meet the needs of CB enthusiasts; the system will be reasonably cheap and will cause much less interference to other users of the radio spectrum. We wish the new system well and hope it will be entertaining and successful.

What is CB?

CB is a personal two-way radio service available on two wavebands, 27MHz and 934MHz. Initially, 27MHz will probably be used by the vast majority of CB operators because of

the availability of equipment.

The 27MHz CB service, which is for speech only, will provide 40 FM (frequency modulated) channels between 27.6 and 28MHz with a transmitter power of 4 watts; a combination of power and channels which is better than any of its European counterparts. Maximum range will be 10-12 miles, depending on terrain.

Who can use CB?

Anybody whose equipment meets Home Office performance specifications and the licence conditions, and is covered by a current licence, can use CB. A licence also covers: anybody who lives at the licencee's home; employees of the licencee using sets on his business; and anybody who hires sets from the licencee for not more than 28 days.

One licence fee of £10 covers up to three sets, and any number of additional fees can be paid to cover extra sets the same basis.

What can CB be used for?

Apart from a ban on advertising or soliciting goods or services, and on obscene or offensive language, CB messages are unrestricted. ÇB is a service for speech only, however, so it can't be used for the transmission of music or morse code, for instance,

There is no bar on business use, so if firms want to use CB for office-to-site or shop-to-van communication, for example, they are free to do so.

What sort of equipment does CB use?

The equipment for the service is relatively simple and intended for use by people who are not necessarily technically skilled.

Typical sets include:

-base stations, comprising mainspowered sets fitted in homes or offices:

-car sets, which are generally units about the same size as a normal car radio and are almost as easy to fit; and

--hand-held portables (walkie-talkies). generally of lower transmitter power and covering fewer channels than the other types, which will be of particular interest to anybody on the move on foot.

All these types of set will of course, be able to contact the others if they have access to the same channels.

Sets for the new service will have to carry a mark of compliance with Home Office specifications; this is explained below.

Do CB sets have to meet certain standards?

Home Office standards for CB equipment are designed to provide an effective radio service while keeping to a minimum interference with other services (such as TV and radio).

They are set out in two Home Office performance specifications: MPT 1320 (which deals with 27MHz equipment) and MPT 1321 (which deals with 934MHz equipment). Both are available from HMSO, price £1.95. All sets sold for the service will have to carry a mark of compliance on the front panel showing that they conform to MPT 1320 or MPT 1321. The mark is a circle carrying the legend CB 27/81 or CB 934/81, and examples are shown on the licence form.

Among other details on the licence form are antennae specifications. In the case of 27MHz FM, which is likely to be the initial choice of most CB users, the antenna is limited to a straight rod or wire up to 1.5 metres long with a base mounted loading coil. (The coil improves the efficiency of the antenna).

Will 27MHz AM sets be legalised?

No. Sets using the 27MHz AM (amplitude modulated) system, are causing widespread interference to television and radio and are, at times, putting the emergency services at risk. More than 1,000 complaints of interference from AM sets are being received every week.

There are companies who are prepared to modify AM sets to meet the new criteria. From the interference point of view, the new legal FM system should be 10 times better.

Many AM sets are still on the market. so when buying a CB set the best safeguard for people who want to buy approved equipment is the mark of compliance, described above.

Will the UK service meet European standards?

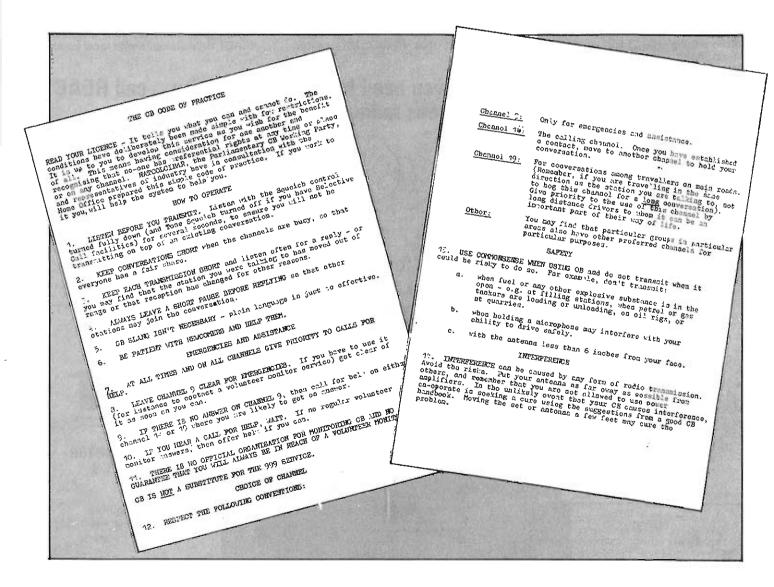
There is no European standard. The European Conference of Postal and Telecommunications Administrations (CEPT) recommendation made several years ago allows only 22 channels and ½ watt transmitter power, as opposed to the UK's 40 channels and 4 watts which is comparable to the American AM system in illicit use in this country. Furthermore, France, West Germany and The Netherlands allow only FM, as does the UK.

Much equipment in use in other European countries is confined to its particular country. French equipment, for instance, with a higher permitted power than many other countries in Europe, may only be used in France, and the illicit American equipment is not allowed in any of the major countries of Europe. European countries which permit CB do not prohibit FM—the UK system—but the same is not always true of AM, so any possibility of a common standard is likely to rest on the use of FM.

Long term Objections

The European Commission has asked member states of the EC about their CB specifications, to examine their effect on trade. The UK will be represented in any future discussions. The Home Secretary said on 24 June, 1981 that the long-term objective was to adopt the specification recommended by CEPT.

CB is a short-range system, not intended for international communication. People who want to use radio for that purpose can become licensed Radio Amateurs



C8 Radio November 81 51



MONITORING

The Official Launch

Saturday the 12th September saw the official launch of REACT UK at a reception held at Harold Hill in Essex. Although using the same name and some of the promotional material REACT UK is in no way related to REACT in the United States. However REACT UK does owe a lot to the Stateside organisation on which many of its ideas are based.

The late Ivan Francis, who was one of the original REACT (UK) organisers, spent many years as an Emergency Monitor both in the states and Canada and It's his experience which has made the inception of REACT UK run so smoothly. REACT (U.S.) was started in 1962 and they successfully lobbled

for a channel 9 emergency system and have since been monitoring and reporting on that channel 24 hours a day.

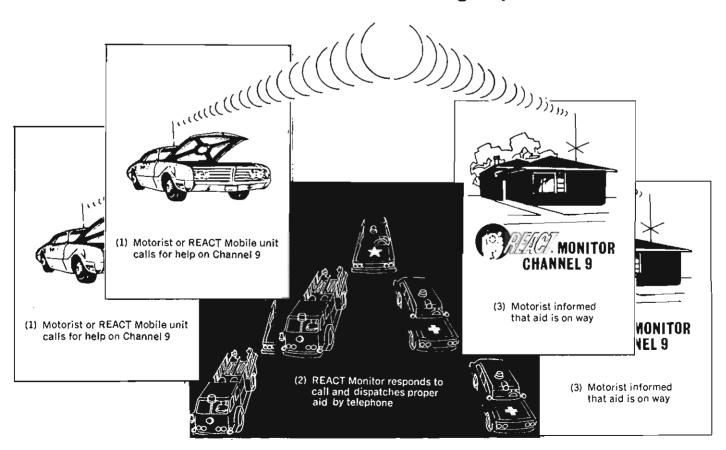
REACT Abides by the Law

REACT UK has always wanted a legal CB system in the United Kingdom and has not been monitoring the currently illegal AM CB frequencies. The main reason for their reluctance has been that REACT UK wanted

official recognition for their activities and with legal CB now upon us this has paid off. Official recognition has come as a result of REACT UK's responsible attitude towards training its Reactors (emergency channel 9 monitors). REACT UK feels that recognition is essential to ensure close relationships between REACT UK and the more 'conventional' emergency services.

The Home Office are fully aware of REACT UK's dialogue with local emer-

When you need help on the highway... call REACT on citizens radio emergency channel 9...



CB Radio November 81

gency co-ordinators (found at the local town halls), the Red Cross, fire brigade, ambulance service, St-John, etc., and have taken into consideration the qualications of individual Reactors (i.e. first aid) which are not part of the React Training Course.

Local Organisation

REACT UK, whilst not being operational, have spent a lot of time setting up local monitoring stations and are now prepared to monitor the whole of the country from legalisation date, 2 November. They have divided the British Isles into seven regional zones which are the responsibility of seven regional co-ordinators who in turn have a number of County co-ordinators liaising with them. Although REACT UK have a national approach to emergency monitoring, each region and county will make their own decisions regarding local monitoring policy.

How It Works

The main emphasis of all REACT UK's work is on the team element. At the moment there are approximately 1,500 full members of the organisation and they are organised into teams to provide a 24-hour monitor of channel

Trained to extract information from anybody making an emergency call and process this information to the appropriate emergency service, each team's HQ will be equipped with 2 x 27 MHz FM rigs one in permanent use and one as a back up in case of failure A telephone and maps of the local area are the other two main requirements. The station is then manned by a rota of Reactors.

One thousand five hundred people alone will not be capable of monitoring channel 9 for 24 hours a day, 365 days a year for the entire country. REACT (UK) have had a lot of enquiries from CB clubs who have expressed interest in starting their own teams. The majority of these clubs are well organised which means that training could undertaken on a wholesale basis to groups of people who already know each other. A full REACT (UK) service could be feasible by mid 1982.

REACT (UK) and Money

As you can imagine, running and equipping an organisation like REACT (UK) requires a lot of finance and the money so far has come from members paying a joining fee. A source of income which REACT (UK) are working at securing, is sponsorship by manufacturers of CB equipment. The approaches are currently being made to the larger companies involved in CB and some will be packing REACT (UK) information into the boxes containing CB transceivers. Purchasers of this equipment will find advice on how to join REACT (UK) and how to make a call in case of emergency.

There are many other emergency monitoring services who are currently





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covering the existing AM CB frequencies, some of whom have approached REACT (UK) for talks or possible mergers or take overs. Although REACT (UK) are willing to talk about such prospects they will only co-operate with teams who are willing to toe the REACT (UK) line. REACT (UK)'s stance while seemingly one being 'Holier than thou' is concerned about keeping their standard of training high.

REACT (UK) are the only monitoring service to have applied for and been granted an Evaluation and Test licence for the MPT 1320 Home Office Specification CB equipment. This is obviously helping REACT (UK) to assess the suitability of different rigs for their own purposes. If REACT (UK) find a rig which impresses them enough it is likely that it will be given the REACT (UK) seal of approval.

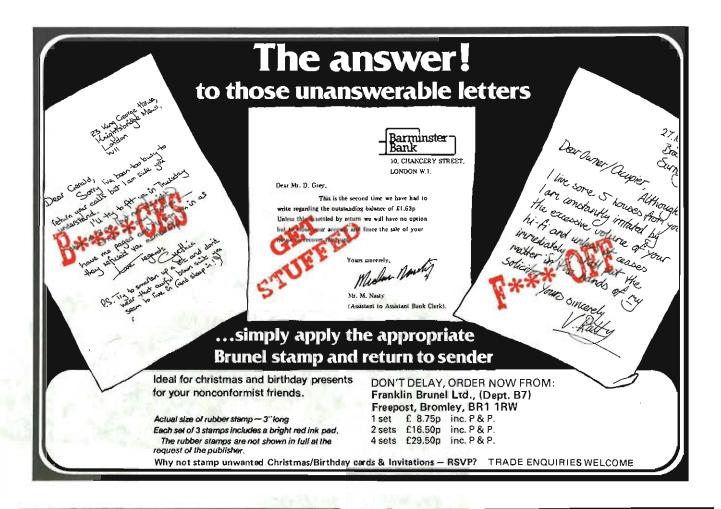
How To Join REACT (UK)

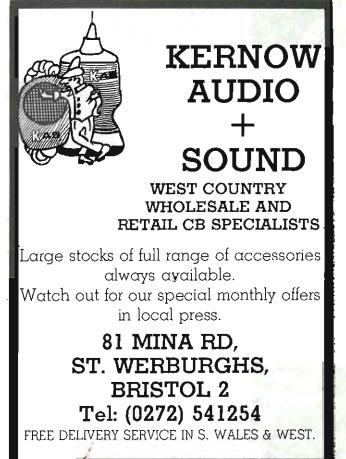
REACT (UK) are still looking for new members and are now only accepting applications from teams, clubs or groups. However, individuals who wish to join an existing team can contact A. MACKAY (EXECUTIVE MANAGING DIRECTOR), Tel. (0203) 383005.

Other Teams

If you either belong to or are forming your own emergency monitoring group we would like to hear about it. Any details about your group's activities are needed (whether AM or FM) for a feature on the 'independents' in a future copy of CBRM.

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MR51 Momma

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Features

High-efficiency base load design, with waterproof loading coil and mount for maximum realibility.

17-7 PH stainless steel (finest grade available) taper ground for resiliency and low wind resistance. Bends full circle without taking a set.

Static ball tip for less noise. Stainless steel shock spring minimizes damage from obstructions.

Ample 17' coax cable with attached connector.

Mounts securely and easily on any flat metal surface. Waterproof design. Requires %" hole.

Specifications

Medal Whip VSWR 17-7 PH stainless steel, taper ground 1.5:1 or better, channels 1-40

Cable 17' RG58U coaxial

%" hole mount Connector Total Reight 47

Power Handling 150 watts

Features

Sweetheart of them all when it comes to big performance and enormous power reserve.

Super heavy duty coil, waterproof, guaranteed for life not to burn out.

Tapered 17-7 PH stainless steel whip for utmost resilience.

Wide band design for best VSWR over all 40 channels. Anti static ball tip for less

noise.



Medal MR510 William

17-7 PH stainless steel ¥\$WR

1.5:1 or better, all 40 channels 17' RG58U with miniature in-line connector Calife.

PL-259
%" hole or Quick Grip" no-holes trunk Ilp Connector

Mount Tetal Height

Power Handling 500 watts

IF YOU WANT THE BEST LOOK FOR THE 'STRIPES OF QUALITY'



Two more kits to build yourself

The two kits featured this month from our range of DIY electrical and electronic kits are an AM CB receiver and a mini police car siren.

The receiver is powered by a 12 volt power supply and is a compact board with loudspeaker. The radio chip included with the kit controls a lot of functions of the receiver—for example, of amplication.

The KT608 when assembled makes an authentic sounding 'American' twotone electronic siren sound. Very good for playing Starsky and Hutch!

KT382 AM CB receiver

Technical Specifications

Supply voltage 12v DC
Max current drain 140 mA
Input sensitivity 2 uV
Max audio output 1.2W into

Max audio output 1.2W into 8 ohms Tunable range 26-28MHz approx

Reception type AN

Description

When assembled the KT382 is a complete AM receiver that will continuously tune from approx 26 to 28MHz depending on how it is set up. The front end tuner uses a varicap diode. The TCA440 ic is a radio chip that does most everything else, i.e., RG amp, converter and detector. The low level audio output from IC1 is fed to the, TAA611B audio amp chip. The receiver sensitivity is good and selectivity is increased by the ceramic filter (FC in the circuit schematic).

How to identify coded components

Resistors	First colour	Second colour	Thìrd colour	Tolerance gold 5% silver 10%
R1 39 ohm	orange	white	black	gold
93 100K ohm	brown	black	yellow	gold
R5 8.2K ohm	silver	red	red	gold
R6 39K ohm	orange	white	orange	gold
R7 12K ohm	brown	red	orange	gold
Я8 15 ohm	brown	green	black	gold
R10 27 ohm	red	mauve	black	gold
R11 33 ohm	orange	orange	black	gold

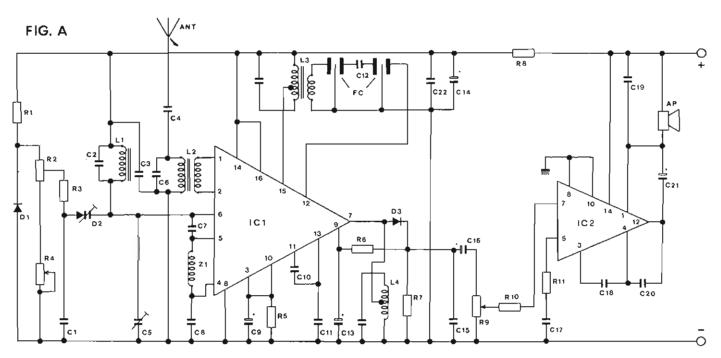
Ceramic capacitors

	Markings
C2, 22pf	22
C3, C8, C19, C22, 100Kpf	104
C6, 58 Kpf	56K
C7, C20, 150pl	151
C10, C11, 10Kpf	103
C12, C18, 47pf	47
C15, 3.3Kpf	332

Miscellaneous	
Z1 180uH inductor	This Inductor is encased in a ceramic blob with black and brown spots on top
FC 455KHz ceramic litter	The filter is enclosed in an orange plastic case marked SFZ 455 A
R2, R9 100K potentiometers	Variable resistors ('volume controls')

Putting it together

Lay out and identify all the components. All components are inserted from the top of the printed circuit board into their pre-printed positions. Mount the components as close to the pc as possible, long wire ends are untidy and stand the chance of picking up stray, unwanted, signals. Switch on the soldering iron and . . .



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List of Components

	List of Cor	nponents
Quantity	Code	Description
1	R1	1/2W 39 ohm resistor
2	R2, R9	100k ohm potentio-
1	R3	meter %W 100K ohm resis-
1	R4	tor 10K ohm trimmer
1	R5	1/₄W 8.2K ohm resistor
1	R6	1/4W 39K ohm resistor
1	R7	1/4W 12K ohm resistor
1	R8 R10	15 ohm resistor WW 27 ohm resistor
í	R11	%W 33 ohm resistor
2	C1, C4	10pf ceramic capac-
	00	Itors
1	C2	22pf ceramic capac- itor
4	C3, C8, C19;	100Kpf ceramic
1	C22 C5	capacitors 4-20pf caramic
	00	trimmer
í	C6	56pt ceramic
2	07.000	capacitor
2	C7, C20	150pf ceramic capacitors
3	C9, C13, C16	4.7uf electrolytic
_		capacitors
2	C10, C11	10Kpf ceramic
2	C12, C18	capacitors 47pf ceramic
1	C14	capacitors 220uf electrolytic
		capacitor
1	C15	3.3Kpl ceramic
1	C17	capacitor 47uf alectrolytic
,	017	capacitor
1	C21	1000uf alectrolytic
1	Z1	capacitor
i	IC1	180uH Inductor integrated circuit
		type TCA440
1	IC2	integrated circuit
1	AP	typn TAA611B
i	Ĺí	8ohm louspeaker see text
1	L2	see taxt
1	L3	455KHz coil (white) 455KHz coil (black)
1	L4 FC	
1	D1	455KHz ceramic filler 7.5v 1/2W Zener diode
1	D2	BA102 varicap diode
		or equivalent
1	D3	AA119 detector diode or equivalent
2		BR colls with metal
		screens
1	pc	printed circuit board
60cm		0.2-0.4mm self sold- ering enamelled
		Copper wire
50cm		flat wire, red/black
1		length of solder

Assemble in the following order:

Refer to fig b at all stages.

Insert and solder the potentiometers. Insert and solder the ceramic capacitors.

Insert and solder the electrolytics (observing polarity marked on case). Insert and solder C5 (ceramic trimmer).

Insert and solder the ceramic filter. Insert and solder the diodes, check for correct polarity.

Insert and solder the ic's. Make sure the notch on the ic is lined up with the notch printed on the pc board.

Insert and solder the inductor.

Insert and solder the coils L3, L4. Check L3 - white, L4- black.

Prepare the coils L1, L2 as shown in fig c.

Insert and solder L1, L2.

Insert and solder the power supply leads, loudspeaker leads and antenna wire.

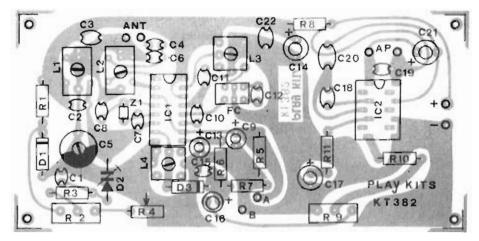
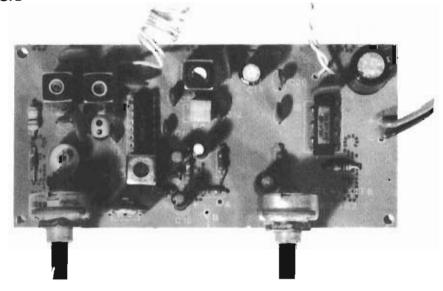


FIG. B



Connect the leads to the loudspeaker and solder.

The kit is now complete and ready for testing.

Notes on winding

L1 9 turns on the plastic support. Fit to the pc board so the coil is connected across C2.

L2 Primary: 9 turns on the plastic support, solder the wires to the outside two of the side with three terminals.

L2 Secondary: From the side with two terminals wind 6 turns on top of the primary.

Testing

Connect a 12 volt power supply to the red and black power leads. Using a plastic or non-inductive screwdriver adjust coils L3 and L4 alternatively to obtain the maximum sound from the loudspeaker. Connect an antenna. For the best results from the receiver, the longer the better. By alternately turning the tuning knob and adjusting C5 the CB band should be located. If difficulty is found in finding the CB band the tuning of L1 may have to be adjusted slightly. When the CB band is located tune in to a station, re-adjust L3 and L4 for maximum volume.

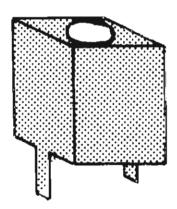
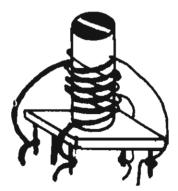


FIG.C





CB Radio Project Kit/

KT608 mini police car siren

The KT608 is a complete set of parts to make a mini siren. When assembled the sound produced is very similar to the two-tone electronic siren used by American police, now to be used in Britain.

How it works (see fig A)

The siren is made up of two oscillators and an audio pa. Transistors Q1 and Q2 form a high frequency oscillator, Q3 and Q4 a low frequency oscillator. Q5 is the audio amp. The output of Q1, Q2 is coupled to the bases of Q3, Q4 to vary the frequency of the high frequency oscillator. The output from this stage is amplified by Q5 to drive the loud-speaker.

List of components

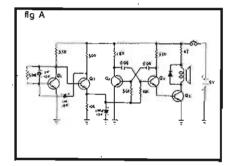
Resistors Quantity First Second Third Tolerance colour colour Colour gold 5% 1.47.0bm vellow gold mauve black 500 ohm areen black brown hlon 2 3.3K ohm orange orange red gold 1 5.6K ohm gold areen blue red 10K ohm brown black orange gold 18K ohm brown silver orange gold

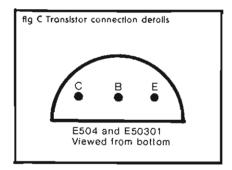
1 500K ohm	green	black	yellow	go
Capacitors Cuantity 2 0.04 uf 1 100 uf 2 1 uf	Marking 403 100 uf 1/10		Type ceramic electro electro	lytic

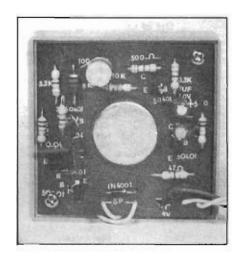
Quantity	Type
4 Q1, Q2, Q3, Q4	E504 010
1 Q5	E50301 H

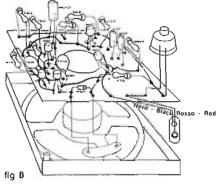
Miscellaneous

- 1 1N4001 diode
- 1 loudspeaker and case
- 1 battery clip
- 1 push button switch
- 2 self tapping screws
- 1 printed circuit board









Putting it together

Lay out and identify the various coded components on a piece of paper and write their value underneath. Using a soldering iron with a small tip solder the small components into place first, see fig B for details. Start with the resistors, then the capacitors, diode and transistors and finally the leads for the push-button, loudspeaker and battery clip. The kit is now completed and can be fitted to the loudspeaker enclosure with the two self tapping screws.

Testing

Fit 9v PP3 battery and push button.

HOW TO ORDER YOUR CB RADIO - PLAY - KITS

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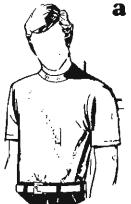
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Vultures on the Side

ANBOY MARIO

Two police officers pose as courting couple

Lately this feature seems to have concentrated on Individuals and their brushes with the law. This is not to say that the breakers are the only people getting busted, as local CB dealers are finding out. We have had several reports in the past few months of CB shops having unwelcome visits from the authorities. To redress the balance, this month we cover the sad story of Roger D in Chiswick, London.

Situated in a busy side street in Chiswick Roger D opened its doors at the beginning of August. The shop stocks a large range of accessories, books and a nice line in CB Christmas cards and is run by Ian Brown for Roger

Wright, the owner.

Very soon after opening, lan was getting fed up with his customers asking if he stocked rigs. Because of 'public demand', lan started to keep a few popular rigs in very small quantities. However small the quantities it was unfortunately enough to attract the attention of the local police, since they kept an eye on the shop.

On 17 August, amongst his other customers, lan had a 'courting' couple visit the shop and look around the stock on display. They also asked if

there were any rigs available and lan showed them the microphone section of a 'one-hander'. At 5.45pm the same day two men entered the shop, identified themselves as Customs and Exclse Officers and asked lan if there were any rigs on the premises. Ian immediately said "No", but they, of course, searched the premises anyway, even taking up loose floorboards. They fairly quickly found four sets under the counter in the shop and the 'one-hander' in lan's briefcase.

Sudden reappearance

To lan's surprise, the 'courting couple' came back and identified themselves as plain clothes officers from the Crime Squad. They helped the Customs Officers search the whole property. Ian was also questioned about his car and another set (bringing the total to six) was found in the car.

lan had to shut up shop and drove his car to the local police station, accompanied by a Customs Officer. All the details of the rigs were taken and everyone then proceeded to lan's home to search there. Nothing was found, so lan went back to the police station where he was further questioned and given an official notice of seizure. The GPO were called to verify that the sets were, indeed, CB and lan was released on unconditional bail to re-appear next Wednesday at the station.

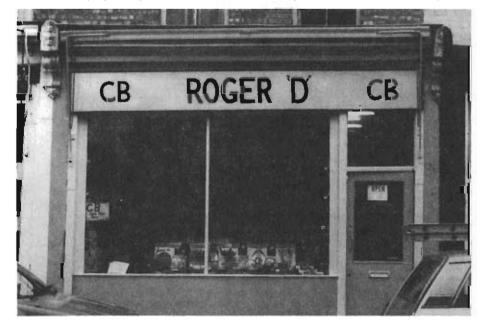
"Keeping certain goods"

When lan went back to the station he was charged with two offences against Section 170 of the Customs and Exclse Management Act 1979. That is "intent to evade the prohibition or importation imposed by the Radio Telephonic Transmitters (Control of Manufacture Order 1968) made under the Wireless Telegraphy Act 1967 and was concerned in keeping certain goods". So now you knowl He was fingerprinted and photographed and went home to wait for the summons.

lan appeared at Acton Magistrates Court on 28 September (remarkably quick, compared to other cases). He had obtained a good solicitor and had been granted legal aid but felt it best to plead guilty as the circumstances were unarguable - the prosecution by a Customs Official who explained about the illegal importation of CB equipment and the claimed interference caused by AM CB. One of the police officers concerned also made a statement about the events of 17 August. In return, lan's defence emphasized lan's unfamiliarity with the law and personal aspects of the case.

The magistrate, while not very familiar with CB, was obviously worried about the Interference and asked lan if he was aware of this 'side effect'. Since lan had pleaded guilty, the magistrate fined him £25 for the set in the car and £75 for the five found in the shop. The prosecution were not awarded costs and lan was given time to pay the fine.

Compared to many other cases we have heard of, this is very lenient. Did the individual magistrate not consider the offence too serious? Or maybe generally there is less pressure and interest in illegal CB. Whatever the reason, lan and Roger D have learned their lesson and will now only be stocking duty-paid rigs and legal FM.



There'll be a big choice of CB radios—the difficulty will be selecting the winner.

COLT has already proved itself in the tough American market-now it's to be introduced to the U.K. so we are looking for dealers.

The COLT has a great track-record for quality, reliability and back-up service. The price is right, too.

What's more, we'll be supporting COLT very strongly with national advertising, window stickers, posters, customer leafletsthe lot.

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CB Radio November 81



H.H.O.T. Breakers

Just a short note to tell you about our local club that has been running about three months. The H.H.O.T. Breakers (Hunters Heath and Orchard Town) of Broadheath and Tenbury Wells have a membership of 100+.

The club's aim is to promote CB Radio, as well as enjoying ourselves. This has been achieved through disco's fox hunts, carnival floats and treasure hunts, all of which have enabled us to donate £200 to the local hospital.

The club meets every fourth Wednesday for official business at Hanley Village Hall, but has several drinks nights throughout the month. Any new members can contact me at the above drinks 20 or by calling for a HOT" Breaker on channel 14.

Signing off with 73's. TALLY WHISTLER (Treasurer)

Scottish Truckers' Club

This is to advise you all that a new club has been formed up here in bonnie Scotland exclusively for truckers. The membership is open to HGV holders only as that is the way the members want it, otherwise we would not be able to cope with the flood of requests for membership; do I hear a rumble heading towards Stirling already?

The club was formed because there was felt a need to unite all truckers, especially in Scotland, to a common interest. Their alms, oops ..., our alms, are communication with each other in order to promote a closer harmony between each other and to set up a national system of assistance throughout the UK to all members. A special code detailing road conditions is already being passed round to members, which will help any message to be passed clearly to each other.

However, the club is not just a club for CB'ers but is open to any HGV holders. A social calendar is being set up to start a pool and darts teams and to organise dances. As the club is still largely in its infancy, things are bound to take a bit of time but we should be really geared up by the end of

September at the latest.

The club meets at the Bruce Inn in Stirling at 2.30pm every three weeks to allow for shift work/rotas and the next meeting is due on Saturday, October 31 at 2.30pm. Remember if you're coming along then you must bring your HGV licence and the membership fee Is only £5 per annum.

Well, that's about it for the moment but we'll keep you in touch with what is happening up here and should you wish any further information then please get in touch with Jim Cairns at the address below, who'll be pleased to help. If he's in, that Is!

Yours faithfully.

A. R. MILLNER (Hon. Press Secretary) Jim Cairns (Club Secretary) c/o 3 Coronation Crescent, Bridge of Allan, Stirling, Central Region

N.I.S.D.X.C.

The Northern Ireland Shamrock DX Club, probably better known as the Northern Shamrock Club, was formed by a dedicated band of DX enthusiasts around Christmas 1980. At the onset it was decided to restrict its membership to 50 radio operators who were practically hand picked as the founder members were anxlous to promote a good impression of Northern Ireland over the international alrwaves.



The aims of the club are to make the hobby of DXIng as cheap as possible for its members and to establish good relations with other operators worldwide. Already the club's call sign, North Shamrock, is recognised in countries including Europe, America, Africa, New Zealand, Australia, the Far East, Hong Kong, and many of these contacts made by its members have enrolled as associate members with even more applications being processed at present. Due to the vast Increase In overseas members, the club has printed an International QSL card to accompany its original club card. All members receive an 11 x 8 colour certificate, membership card, roster of members, etc.

At present the club is running an award scheme whereby any DXer flaving contacted 10 or more different countries by QSO and QSL can qualify for a certificate. Anyone Interested please forward 10 QSL cards plus £1 to the Award Manager, P.O. Box 25, Newtownards, Co. Down, Northern Ireland BT23 4XE, or contact any club member on 27.605 L.S.B. (channel 16).

Best wishes to all readers and contacts, hoping to hear from many more! GORDON MISKIMMIN (Secretary)

Coaltown Breakers' Club

We are the Coaltown Breakers' Club, based in Cannock, Staffs. Our club has been formed since February 1981 and our membership to date is 350 and growing steadily.

We hold our Eyeball once a week every Wednesday at the London Square

Public House.

May I, on behalf of all our members and committee extend an invitation to any Breakers or truckers passing through Cannock on Wednesdays to break on 1-4 and ask for directions, where they will be made very welcome.

Your sincerely.

CAPTAIN SCARLET (Secretary)

Zebra County Breakers

We wish to be recognised as a new breakers' group. We go under the name of Zebra County Breakers. We are located between Great Yeldham on the A604 and Earls Cross on the same road, Braintree and Great Bardfield. Capital Is Hedingham in which the breakers meet once a week on a Sunday night.

The club was formed in late February with 36 breakers and at the end of April the club had over 100 members, all

breakers.

The President of the club, Charley Farley, has been a breaker for over four years, the Chairman, Hunter, has been a breaker for 21/2 years.

Each district in the county has its own steward who is responsible for introducing new breakers and giving assistance wherever possible.

Profanity is strictly forbidden on channel and is upheld by the membership. All breakers in the county are aware of their legal position In regards to the use of their equipment.

Any outside breaker is welcome to attend our meeting and refreshments are available. The club has a good social programme with film shows, visits from prominent speakers and electronic experts, etc.

We are to be recognised and are putting floats into most of the local carnivals this summer advertising the

club and CB in general.

Dances and other outside activities will be organised in the near future. The aim of the club is to benefit deprived children by taking them out for days on excursions. A news bulletin once a week, there is also a policing unit in the club to make certain breakers behave properly at all times. We break on channel 14 and 5 is a reserve; 8, 9 and 10 are avoided as they are used by the local breakers' emergency service operated by Suffolk Ears.

WINNIE THE POOH (Club Liaison)

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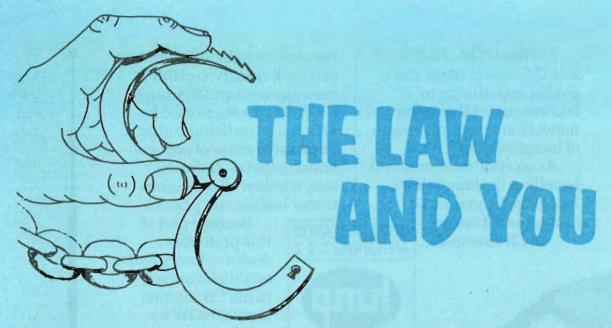
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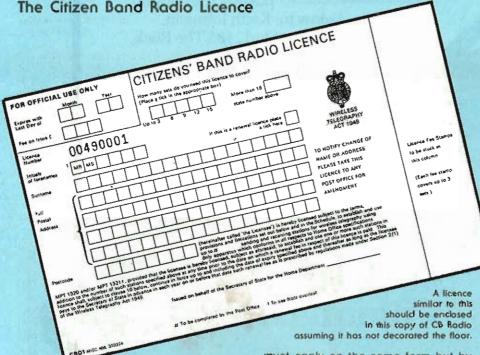
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CB Radio November 81

63





It is a pleasure this month to be able to write about some positive aspects of the law rather than what to do in case you get busted. As FM CB is now legal in this country it makes a change to be able to tell you what you can do, rather than what you can't.

Most official forms are a nightmare to understand and fill in; the CB radio licence form is no exception. As we said last month, the licence is very similar to the one currently used for television reception equipment.

The licence is a three-part carbonating set which is laid out with the instructions on the front, the actual licence as the second copy and the licencing centre's file copy on the back. The form is available in all Post Offices and you may only use a CB set when you are in possession of this licence. The fee has been set at £10 per year and this covers the purchaser for up to three sets. One licence can only be used for up to 15 sets and anybody wishing to use more than 15 rigs must apply on the same form but by post to CB Licensing Unit, Chetwynd House, Chesterfield, Derbyshire. The licence is the application form and is only valid when the licence fee stamps are attached and the form has been initialled by the issuing officer.

What the licence covers

The licence provides for the operation of FM transceivers which comply to MPT 1320 and MPT 1321 Home Office specifications. This means that only sets which have either CB 27/81 or CB 934/81 stamped or engraved on them and the only sets which should have these marks are ones which electronically conform to the specifications. How long will it be before a business flourishes in stamping illegal sets?

Licence conditions

 The licence only covers the use of equipment by the licence holder or the following categories of people with the licencee's permission:

a) Any person who resides at the licensee's usual place of abode. (Well, the budgie will be OK).

2. Any employee of the licenses acting in the course of the licensee's employment. (In other words, your staff),

c). Any person who hires the apparatus from the licensee for a period not exceeding 28 days. (Will Radio Rentals actually start living up to their name?).

2. The licence is not transferable. (No, you can't borrow mine).

3. The apparatus shall be so designed, constructed, maintained and used that its use does not cause any undue interference to wireless telegraphy.

This paragraph is delightfully vague because one man's undue interference is another man's Crossroads and to be quite honest, I think it will be very difficult to trace a source of interference accurately enough to revoke somebody's licence. However, interference is going to be a major prob-

4. The apparatus and this licence shall be available for inspection on demand by a constable or a person acting under the authority of the

Secretary of State.

Yet another loose piece of phraseology. Does this mean that any constable can enter your home to inspect your rig and licence without a search warrant which is currently required by law? Such measures are normally reserved for terrorists and drug smugglers. Persons acting under the authority of the Secretary of State presum-ably means Buzby (Post Office) and does that make them legally entitled to enter your home without a warrant as well?

5. All transmissions other than selective calling signals or digital transmissions designed solely to identify the transmitter, shall be in plain speech.

Which means in plain English that you can talk and Roger Bleep to your heart's content.

- 6. The equipment may not be installed or used in any aircraft or airborne vehicle.
- No transmission which is grossly offensive or of an indecent or obscene nature may be sent.
 - 8. The apparatus shall not be used



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Engages about the most of this feature would be addressed to CB Learning Unit Charryon House. Challenning. Surface Sep 199

for the purpose of advertising or soliciting goods or services of any kind.

The last three points make common sense and should hopefully leave the FM airway free for the enjoyment of all (except pilots) without having to be bored with bucket mouths or boring advertising.

Section 9 of the licence is written in gobbledigook, a language which I fail to understand despite having read numerous books on the subject. Rather than bore you by copying it all out the gist of it is that the Secretary of State can revoke everybody's licence after having given notice. The Secretary of State needs to give no reason at all.

The rest of the licence consists of a section called The Schedule which reiterates sections of the Home Office specification.

The Section 3 of the schedule relates to the type of antenna that the Home Office will permit and nothing new has emerged.

1. The antenna must be of the base loaded type.

2. The element must be a single element rod or wire type.

3. The overall length of the antenna must not exceed 1.5 metres in length.

This means that only a minority of the aerials in current use will be within the specification (see our Guide to CB). Does this mean that anybody in possession of any other type of antenna will be subject to prosecution? Think how many potentially illegal twigs your local CB dealer has in stock.

The 934MHz aerial may consist of up to four elements, none of which may exceed 17cm in length.

If you are using a home base set, the aerial for such a set must not be affixed to a point any higher than 7 metres above ground level (10 metres for 934MHz). If you go higher than specified you must attenuate the signal by 10dB. All legal sets must have a switchable attenuator for this mode of operation. Just don't forget to flip the switch.

Antennas of other types must not be used and neither must power ampli-

The CB licence is generally aimed at making CB use sensible. By virtue of the way it is worded it does pose some very serious questions and raise many potential loopholes. Interpretation of the licence by law enforcement agencies is going to vary from area to area and we will be interested to hear from you if you encounter any difficulties whilst operating CB under the auspices of this licence.





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Clubs Unite

When we launched the idea of Clubs Unite fast month, we never imagined that your response would be so positive or quite so speedy. Although this initial success has rather overwhelmed us, we are still capable of handling and collating more replies to our National Club Register.

To those of you who read last month's article and replied, thanks. To those who either didn't reply or read the article, it is time to read on and to take some decisive action.

The future of your club

Now that it is legal, I'm sure that debates and arguments are raging furiously throughout all the CB clubs in the land. Many a pint will be sunk whilst discussing the pros and cons of FM versus AM because at last FM is available on which to lose a factual argument rather than relying on myth.

If, as a result of your experiences with legal CB your club is changing its policy and is now in favour of FM, let us know. If, on the otherhand, you will tolerate both FM and AM breakers and expect your club to grow as a result, also inform us. Many clubs will doubtless remain purely for the AM enthusiast. We still want to know.

With more people becoming aware of CB as a means of communication, it is almost certain that SSB will be one area of CB breaking that will grow. When FM breakers realise the limitations of their sets, SSB will be the medium through which the "radio bug" can really fulfill his hobby.

National Club Register

Regardless of choice and frequency preference, registering your club will be important, new 27 FM clubs will spring up along with 934 clubs, each with its own aims and ideals.

Therefore we have decided to start a totally seperate publication intending to register every possible CB club, group or organisation.

FM Clubs will find it an advantage to register their name and address, it should stop confusion & Identical names in the same area, it may even prevent them from choosing a similar name in the first place. It will also let other clubs

know of your existence, how to contact you and what channel you break on. Being registered will also have a spin off advantage, for instance many rig insurance schemes now mail the clubs with preferential offers on rig theft insurance.

AM Clubs will find registration essential because the Government want to make you extinct. They will succeed unless you openly proclaim your support, communicate with similar active clubs and unite in any protests or demonstrations. National Club Directory will contain information that an organiser of any demonstration would need to know, how to obtain police permission and who to contact, planning the best possible route, the time scale and how to plan your support, suggested media contacts and promotional hints, tips on money saving with banners and posters, along with artwork for suggested campaign literature, (the most expensive part of any campaign). In other words everything you and your club should need to stage an effective protest or demonstration.

SSB Clubs. Amongst all the other possible clubs, Single Side Band is without doubt the major argument for AM preference. Yet to date the Home Office have never mentioned the subject and totally ignored its existance. True we all know 27AM, SSB, long distance contact is illegal the world over, but is it that far removed from 28 MHz operation that there is no argument for legalisation? Many Hams cast CB'ers aside as unlicenced pirates, yet more and more we have noted a tendancy by some amateurs to ask why isn't the RSGB pressing to incorporate it!

Registration for the QSO Club should be an advantage, other local SSB clubs will know your frequency and either give you a clear band or be able to contact or at least try British working with you.

Information listed would be reasonably explicit, i.e. frequency, area, attitude, DX local or long distance, the membership response to QSL, if a purist QSO or DX QSL Swap considered. Whether the club is active, interested in legalisation or just simply here full stop.

DX - **QSL Swap Clubs** can incorporate information about themselves in a semi advertisement form and enhance their membership, listing their club package, QSL rate i.e. 100% or 1-4-1,enrolment fee and even printing in the register their Club QSL card.

BIRDLINGTON MOSS BREAKERS
Vanue: The Castle on the Hill
Birdlington Moss
Castlehill View
Birdlington
Every Tuesday 8.30 - 1.30
Contact: Meril Straight
Evtin Vaughn Green
Ridge Castle Road

Birdlington Area: Shakey Tree Town Break: 14

CLUB: 17

Registered: AM ACTIVE

BRDOXFIELD MARSK STOMPERS
Venue: The Marsh Inn
Brookfield Marsh
Nr Broadlanders
Every Sunday
Contact: Mike Stalmond
12 The Larches
Cakfield Marsh
Broadlanders
Area: Stompers Green

8reak: 14 CLUB: 11 Ragistered: FM

BUS STOP BX (ISL P.O. Box 32 Flanders S. Suxeth

Personal: Mike Roger, unit 001 President

Frequency: 27.585 LSB Registered: SSB PIRATE

The above are examples of how the listings will appear Please fill in your form with care, think of the details you wish to be printed and compare it with the above.

Certificate of Registration

In order to collate all the information we hope to receive, computer time will be booked, therefore we want to use only genuine and correct information about your club, body, organisation or oroup.

For this reason there will be a registration fee, this will cover collation of data, issue you with an "Official Wall Certificate" which is proof of registration made out to the registered club showing its official stance i.e. AM-FM, SSB or DX QSL Club, Organisation or fighting group. The registration fee will also allow us to send you a photo-stat of how your listing will appear. This can then be checked to ensure that all the information is correct.

The Registration fee will be £1.00 for all clubs, organisations or groups, additional space will be available for the more prominent clubs, fighting organisations or DX-QSL Clubs wishing to promote themselves.

JOH

The publication will take some time to collate but it is envisaged that it should be ready early in the new year, that will let us have a Christmas break, yes it is almost here already

HOL

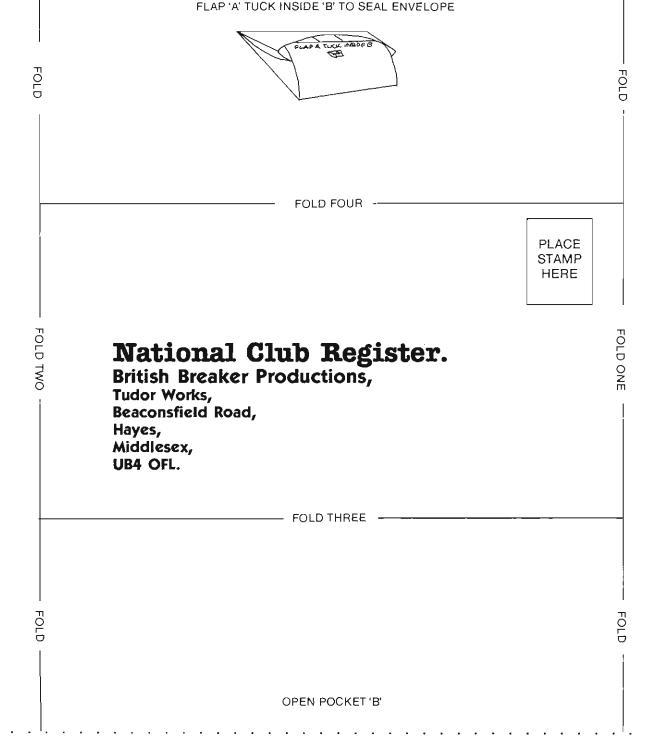
CB Radio Magazine NATIONAL CLUB REGISTER

Please fill in details carefully and comprehensively. Print in block capitals only.

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ADDRESS in full:				
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Address				
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Club Channel				
(see below for choice first)				
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America Today

Citizens Band Radio after the boom

Generalisations can never be successfully made about any country the size of America, so whilst I would have liked a year or so to travel the States and report, I had to be content with a few days in California and Arizona.

CB started in America way back in 1945 and was introduced for the public's use in 1947. Since then its frequency has changed from 460MHz to its present 27MHz. This change happened in 1958 but it alone did not cause the American CB boom. That came in 1974 with the introduction of the 55 mile an hour speed limit. Almost every one wanted a CB and at its peak over half a million sets were sold each month.

Now in 1981 the boom is long gone and CB is just a means of communication there to use if you feel like it. The original users of CB, the truckers, have almost got back their exclusive use of mobile CB.

From all those millions of breakers that purchased and used a rig in the seventies only the diehard enthusiasts remain and the greater majority of those use 40 channels AM purely as and when it suits them.



A speeding truck, caught here in the mirror just before he was pulled in.

The Ultimate Insult

Most British breakers will have heard of the CB jargon but how many actually realise why it started? In the early days of American CB the truckers had the frequency to themselves. Prior



It is the Highway Patral's job to prevent accidents like the one pictured below, where all the occuponts died



to, and with the boom, their channel 19 had become crowded with normal ordinary members of the public. For the breakers it was annoying and unwanted so they developed a code which they hoped no one but other truckers would understand. However, that was short lived and with the boom came books on CB and its magical lingo. Soon everyone was into speaking on 'the old CB' in cotton-picking jaw-jacking terms and with the friendly nature of CB 'Good Buddy' became the means of addressing fellow CB'ers.

Now with the quieting of the basic 40 AM channels few of the old CB lingo is used, the tendency now is to talk in plain American. Thus the term Good Buddy has become the ultimate insult, without wishing to upset readers by being explicit, its meaning is a member of the male sex who prefers members of his same sex and in particular a

The Active CB

Single Side Band (SSB) is not illegal to use or purchase, however, long distance (DX) communications are.

Basically CB was designed to be purely for local communication, or at least that is what the American FCC (Federal Communications Commission) thought. However, as most British CB'ers are aware, due to something known as Skip, SSB transmissions can travel right round the globe; For the uninitiated this (Skip) effect happens because the ionosphere becomes charged by sunspot activity and thus acts as a mirror bouncing the signals back down to Earth. Long distance communication using this form of transmission is nothing new to frequencies that are low, the sunspot activity, however, follows an 11-year cycle and at its peak one can talk right across the world with very low power. At present the activity is on the decline and although it picks up slightly in winter, places like Australia and

America will eventually become unreachable from Britain except in freak conditions.

For America at the moment Australian signals are rolling in loud and clear and naturally every American DX operator is breaking the law.

The Other Illegal

It is certain that Citizens Band Radlo is without doubt destined to be illegal in some shape or form the world over.

As well as basic 40 channel SSB operation long distance, American CB'ers are gettlng really fond of high high or low low illegal modifications. So much so that these channels carry a very high volume of users.

This and SSB DX communication accounts for a vast amount of illegal operation, combine this with the outlawing of high power and one can see that the greater majority of American CB, like around 90%,is totally illegal.

Linear amplifiers are banned, a CB shop is not allowed to stock or sell them, yet like our own illegal system almost all of the specialised shops do. Popular makes like Tornado, Hurricane and even Cobra, are openly available from under the counter. Pricewise a 150 watt Cobra would cost \$159.95 or \$139.95 for a 125 watts.

As a comparison on legal-illegal American CB, most smallish retail outlets will sell an average of 2-3 basic 40 channel sets compared with around 10 side band sets with modifications each week. For a price guide a Cobra

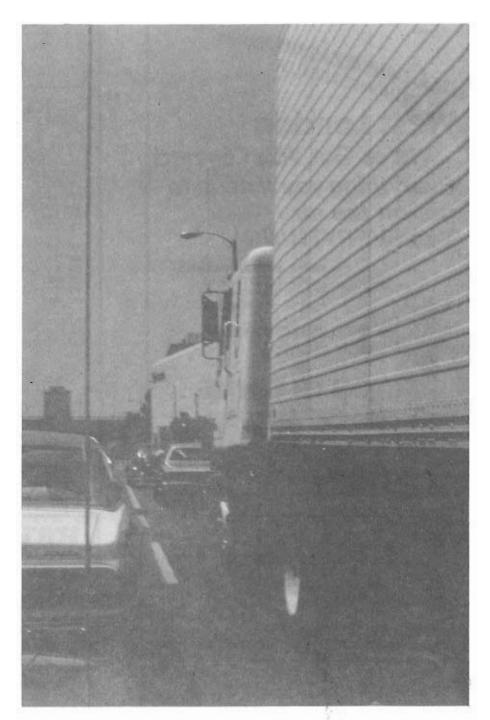




Top: A 500 wan burner readily available from this anonymous dealer.

Above and Right: The main users of basic 40

Above and Right: The main users of basic 40 channel CB, the American Truckers.



148 GTL retails at \$215.95 and the upper range base station at \$310.95, modifications to these rigs are, like the linear amplifiers available and negotiated as an under the table deal.

Popular Pirate Frequencies

Initially the use of illegal frequencies must have stemmed from the desire by many to escape the highly overcrowded 40 channels, for regardless of AM or SSB an American FCC approved transceiver has only 40 channels.

PLL (Phase-Locked Loop) Modification is the in thing in America and although its not quite this simple it entails swapping the existing PLL and popping in a new crystal.

Once done, depending on the PLL and the crystal used, frequencies from 25MHz up to 28 can easily be ob-

tained. Needless to say if such a modification is carried out on or with a kc (kilocycle) shift in circuit then almost any frequency within reasonable parameters can be locked onto.

The standard US 40 channel 27MHz frequencies are from 26.965 to 27.405MHz in units of 10 kc's spacing. Using combinations of different PLL's and crystals American pirates operate on a vast amount of frequencies eg: 25.725 to 26.765, 26.065 to 26.355, 27.475 to 27.915 and 27.945 to 28.385 to name but a few.

Incidentally those last two cover the new British frequency range! So don't be surprised if an American Side Binder appears in the background on legal British FM.

JOH

Courtesy of the PLL Oata Book by Lou Franklin, author of the Screwdrivers Guide.

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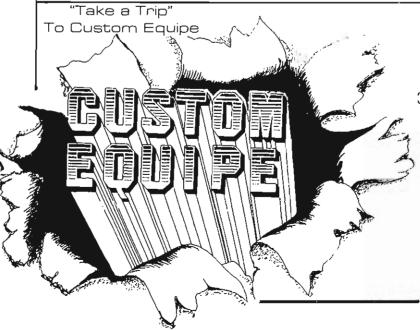
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