

# CB RADIO

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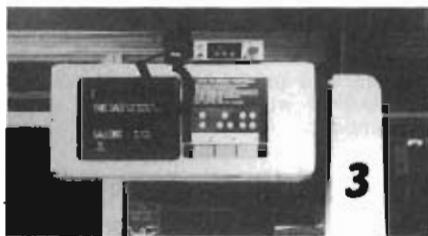
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Director..... J. O'Hara  
Editor..... J. O'Hara  
Editorial Secretary..... Carol Robertson  
Photography..... Colin Downs  
Advertising..... Sue Sharp  
Letters..... Paul Giff  
Production Manager..... A. M. Lawrence  
Gopher..... Ian Coombs  
Technical Advisor..... F.C. Judd, IISTC MEDIA ASSOC (IPR)



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# What is CB ?

## So just what is this thing called CB and what's happening ?

Just to refresh your memory and in case the odd copy of this magazine sits on the shelf long enough to attract the phantom browser.

Citizens Band Radio is a public two-way radio system designed to add a little extra freedom to the average man in the street, this of course depends on your viewpoint.

The theory is simple, a neat compact unit called a transceiver (transmitter and receiver) can be purchased for 'green stamps', that's CB lingo for money, usually around £60.

Once produced all one needs is a 'twig' or in English, antenna, a quick SWR reading (SWR, standing wave ratio, basically the antenna has an electrical length that needs matching to the transceivers frequency) and the guts to speak into the microphone to an unknown stranger.

## Hello again

Right, I just thought I would refresh myself on what CB physically is. As our inimitable PCC pointed out last month I was absent!

The reason for the refresher? Well, I was in America, you know across the 'pond' and the home of everything from hamburgers to CB. But there we have the problem - hamburgers are alive and well and living in little golden arches or held aloft by overgrown muppets. However as for CB, the only thing alive is the high DX frequencies

Actually I jest slightly, all of the older British CB'ers should instantly either take up 934 MHz or visit the States, it was so peaceful it was firstly annoying but mostly brilliant! Which although our PCC didn't know it makes his intro last month fitting, for I personally heard no 'wallies' (a truly British word) or wind up merchants anywhere on channel. But more of that next month.

## British CB Licence

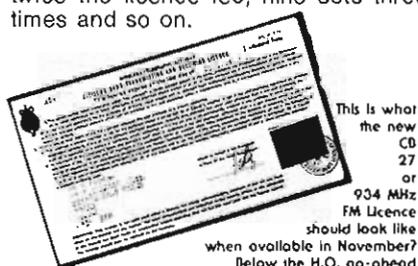
27 MHz despite all the abundant rumours is going to be here very soon, the most probable date so far is November the first.

Licences are now printing and will be available from Post Offices, they resemble a three-part form similar to that of a TV licence. The first part is instructions on use and how to fill in the form, the second part is your actual licence, bearing your name and address, the number of sets you are licenced to install and operate

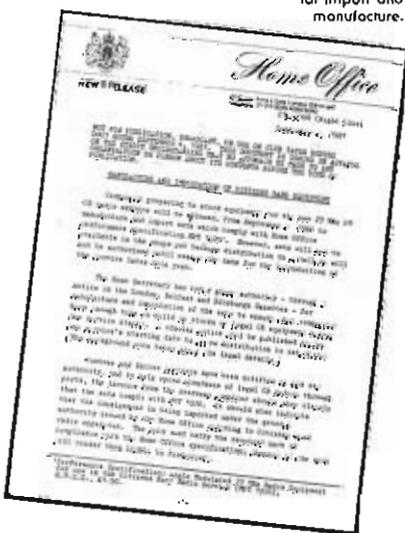
and the all important validation stamp. The third part contains the same information and is for the licencing authorities use. No doubt this may instigate a renewal reminder on expiry!

The fee is to be set this month by the Director General and should be between £10-£15. This will cover you to install and use three sets. If you require a licence for more than three sets the fee increases by the basic fee again for each additional three sets.

That would mean six sets costing twice the licence fee, nine sets three times and so on.



This is what the new CB 27 or 934 MHz FM Licence should look like when available in November? Below the H.O. go-ahead for Import and manufacture.



## Manufacture and import underway

From September 4th, British companies intending or preparing to stock 27FM equipment can import or manufacture sets which comply with the Home Office specification MPT 1320.

The Home Secretary Mr William Whitelaw has given authority (through a notice in the London, Belfast and Edinburgh Gazettes) for manufacture and importation of the sets to ensure that there is enough time to allow stocks of 'legal 27 FM' to be built before the service starts.

A similar notice will be given in the same manner nearer to the services starting date, informing distributors when they can supply retailers.

It is likely that such distribution will start during October and that legal FM sets will be on show in the retail outlets three to four weeks before the 'Big Day'. The date is still not officially released but as we said earlier and last month November 1st is a good bet. This date is supported very well by the notice to allow import and manufacture being released now. As one month for manufacture-import and one month for distribution would bring us to early November.

## It will be legal - when ?

Or how to increase the circulation of the London, Belfast and Edinburgh Gazettes ?

As we have repeatedly said in past issues 'Legislation', 'new laws' are not required to introduce the legal FM Citizens Band service. There is no need for a Bill to be put to Parliament and no requirement for the House to be even sitting. A simple announcement by the Home Secretary made in either (yes you guessed it) the London, Belfast or Edinburgh Gazettes is all it takes to legalise CB.

## Customs and Excise

Customs and Excise officers have been advised of the new authority to allow Import on legal 27 FM CB transceivers. In order that equipment should be allowed access, the documentation must state that the transceiver does comply with MPT 130 and that the consignment is being imported under the general authority issued by the Home Office.

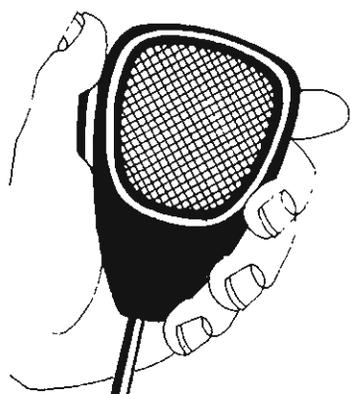
The sets must carry the required mark of compliance and the absence of such a mark will render them liable for forfeiture.

## A choice

'Soo mon Ce-Bee frie-nds: that's DX lingo for 'Good Buddy' (which by the way is the ultimate insult on American air-waves, but more of that next month) legal FM will soon be upon us. I have used it and it works, in fact. It does work very well. But soon you will all have that chance and a choice will soon be yours, AM or FM!

We will still cover the lot!

JOH

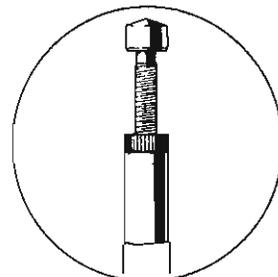


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# Connexions

# Antennas and Transmissions on CB frequencies

By F.C. Judd, FISTC MIOA. Assoc. IPRE. – Part 12

## Antennas and Propagation at 934 MHz

The ultra-high frequency band based on 934MHz and allocated for CB radio use has hitherto been regarded by the majority of CB enthusiasts as being of little or no use. This attitude, which has led to the almost total rejection of 934 MHz, has been founded largely on uninformed hearsay and unqualified information given out by the media. The two major excuses given for rejection of this band are that operating ranges will be

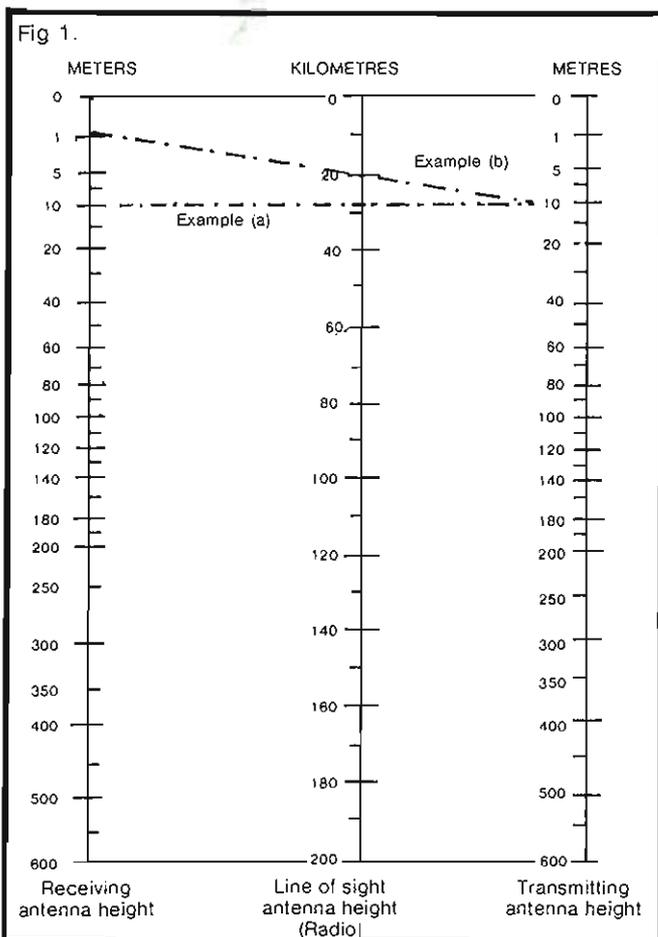


Fig 1: Line of sight distances (radio) for varying heights of transmitting and receiving antennas. Example (a) shows that with a base station antenna at 10 metres (33ft) above ground, the radio distance will be in the region of 25 kilometres. Example (b) is for a mobile with its antenna at 2 metres (around 6ft) above ground and the base station with its antenna at 10 metres. This chart applies to frequencies in the VHF/UHF region 100 to 1000MHz and assumes relatively flat terrain (see text).

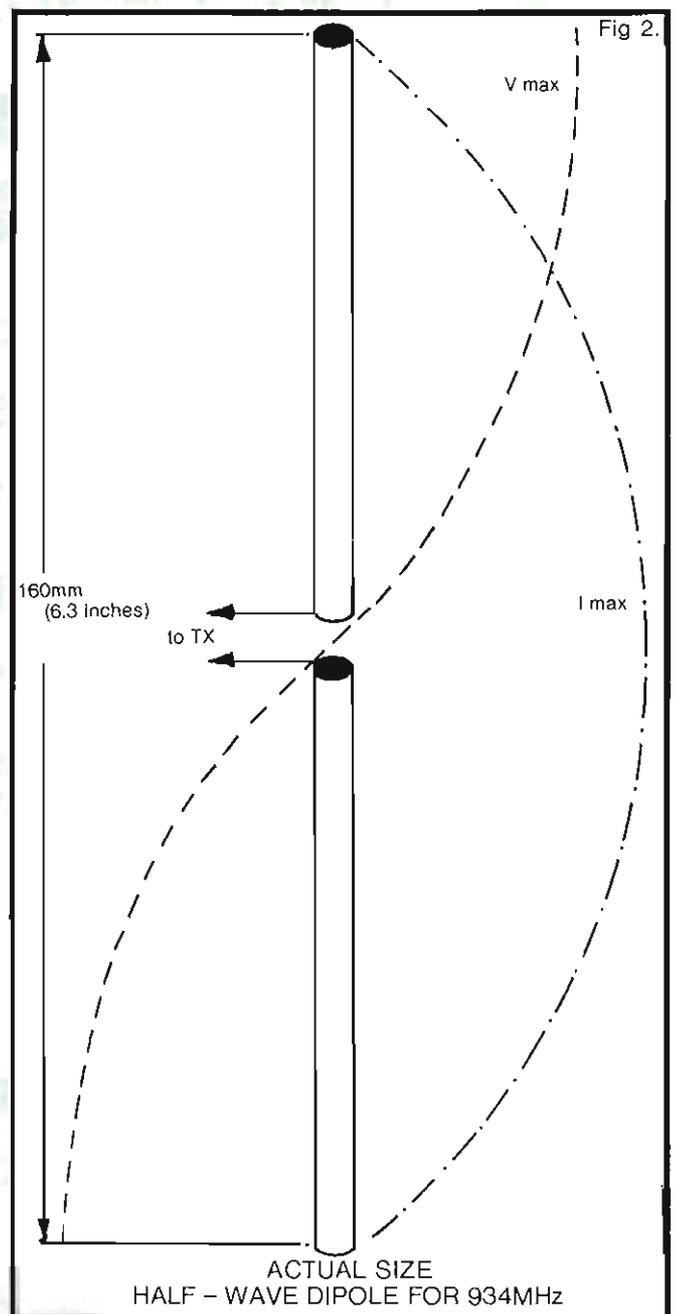


Fig 2: This illustrates just how small antennas will be for 934MHz.

severely limited and the equipment would be far too expensive anyway. Other but relatively minor reasons have only further weighed the odds against.

Those already using 27MHz CB radio and those who want it only for local and personal communication, *which is what it is intended for*, should begin to think seriously about what the situation will be when CB becomes legal. The most important concern should and will be *band occupation*. Based on extensive market research, the initial unit figure for the sale of CB sets for legal operation is estimated by one of Britain's largest manufacturers of radio communications equipment at around 14 million, and that's to begin with!

Hitherto the 27MHz band has only been occupied in the UK by the relatively few operators classified as illegal. Even during the past year the number has increased to such an extent that *band crowding* is already becoming evident, even with up to 80 channels being used. Remember, the HO specification for 27MHz CB radio is for only 40 channels and the legal occupiers could well be in the region of 10 million initially and increasing rapidly in a relatively short time.

This is why 934MHz is worth at least some preliminary investigation and although there are only 20 channels allocated, *channel sharing* can be on a much larger scale. Firstly, the band won't be literally jammed as it often is by Italian and other continental operators because the short and long skip conditions that frequently allow signals of high level to reach here from outside the UK, do not exist at the ultra-high frequencies. By virtue of the fact that wave propagation at 934MHz is normally only over line-of-sight ranges (generally somewhat more in practice) operators in one area will be able to simultaneously use the same channels as those in another area without interference to each other so long as the areas are separated by only a little more than line of sight distance.

At least two British manufacturers with foresight and the appropriate technology have already concluded and in fact proved that 934MHz has possibilities and are accordingly devoting time and effort on research and development to production stage, of transmitters/transceivers (\*1) and antennas (\*) for this band.

### Radio Wave Propagation at 934MHz

Readers who have followed these articles from Part 1 are referred to issue 5 of CB Radio magazine which

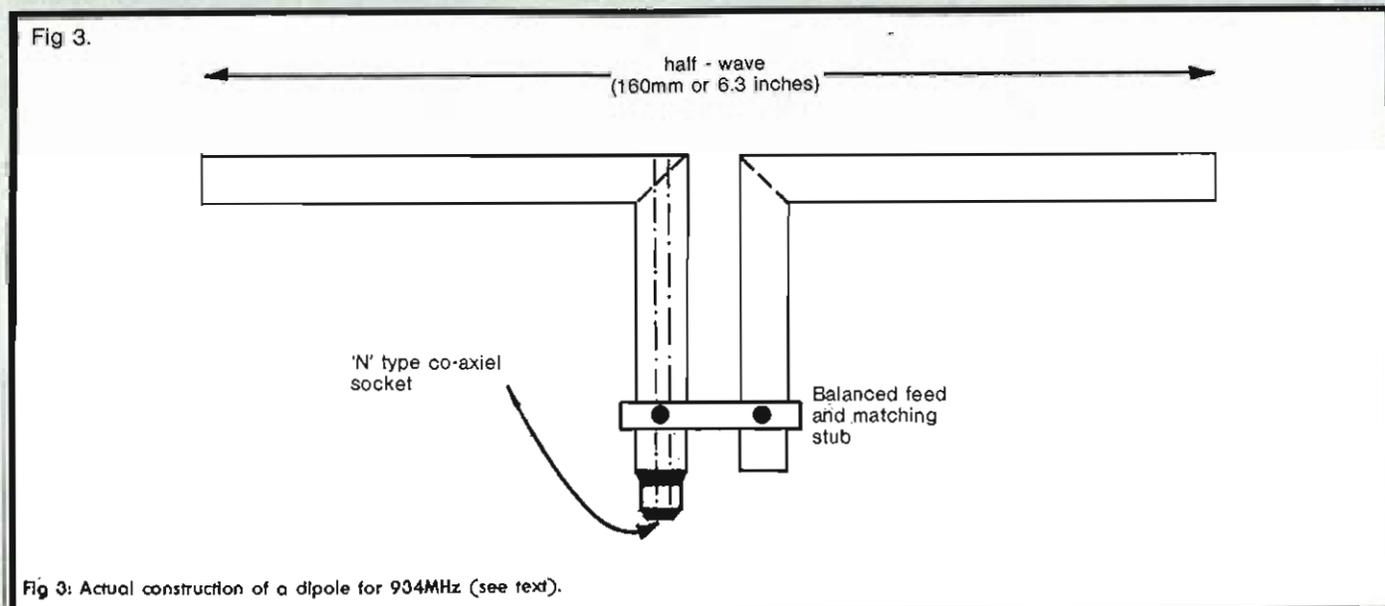
contained the first article. This dealt not only with propagation but also included a chart showing line of sight ranges versus height of antennas applicable at very high and ultra high frequencies i.e., in the range 100 to 1000MHz. This chart is reproduced again as fig: 1 and as can be seen the line of sight distance between two base stations, each with an antenna at a height of 10 metres above ground, would be in the region of 25 kilometers, or about 15 miles. This assumes of course flat country, or an oversea path.

Radio amateurs who are licenced for a frequency band based on 432MHz regularly operate over distances of 20 miles or more with antennas at average house height (30-40 feet) with output power often less than 10 watts. An even higher frequency band, based on 1230MHz, is also allocated to radio amateurs, many of whom use it regularly and successfully, with often quite remarkable distances being covered.

Radio waves at all very high and ultra high frequencies are of course affected by hills and high buildings along the path of propagation, but much less so than at 27MHz. It is not generally realised that attenuation over a ground path is higher at 27MHz than at virtually any other frequency in the normally accepted HF frequency spectrum 1.5 to 30MHz. *In fact 27MHz is just about the worst frequency that could ever have been chosen for CB radio communication directly over a land path.*

The only attenuation at 934MHz, aside from distance itself, is due to hills, large buildings, extensively built-up areas and densely wooded countryside. Even within built-up areas loss of signal is not as great as might be imagined.

Unfortunately the Home Office have introduced a condition regarding the height of antennas and which applies to both 934 and 27MHz. In the case of 934MHz if the antenna is situated at a height of more than 10 metres (approx 33ft) above ground then the power fed to it from the transmitter must be attenuated by 10dB. However, it is not intended in this article to deal with the full technicalities concerned with attenuation of this nature except to say that a reduction of power by 10dB means, as it so happens, a reduction 10 times. Therefore, the allowable 8 watts output from a transmitter in use for 934MHz would have to be limited to less than one watt. On 27 MHz the four watts normally permitted would have to be attenuated to 0.4 watts but in this case only if the height of the antenna above ground exceeds seven metres (23ft).



# Antennas and Transmissions on CB frequencies

## Antennas for 934MHz

First it must be appreciated that the basic linear antenna, from which all other linear antenna systems are derived, is the half-wave dipole, normally accepted as having unity gain and therefore reference at 0dB. At 934MHz a half-wave dipole is 16 centimetres (160mm) or, approximately 6.3 inches long and roughly 33 times smaller than a half-wave for 27MHz. The *actual* size of a 934MHz half-wave antenna is shown in fig: 2 which also illustrates that the voltage and current distribution is of course the same as for any other half-wave antenna irrespective of the frequency of operation. otherwise there is little similarity to antennas designed for use on 27MHz.

The half-wave dipole for 934MHz illustrated in fig: 3 is a typical working design employing a balanced feed system to ensure exactly equal distribution of current in each half of the radiating element and accurate matching, in this case to a 70 ohm co-axial feed cable. This particular antenna (used by the writer as a reference) is made of silver plated copper. Although, as already mentioned, the electrical characteristics of antennas for 934MHz are the same as those for other frequencies, actual construction involves precision engineering and use of high grade conducting and insulating materials. Cable connections can only be made with 'N' type plugs and sockets and the feed cables must be of very low loss grade. Each of these latter items are quite readily available.

Although the Home Office specification for CB radio allows a maximum of 25 watts *effective radiated power* (ERP) to be used on 934MHz\* there is a clause concerned with antennas. This is (quote) "*the aerial shall consist of a maximum of four elements none of which shall exceed 17 centimetres in length*". It is important however, to remember that the 25 watts ERP applies *only* if the antenna is situated not higher than 10 metres (approx. 33ft) above ground. To achieve this ERP with 8 watts output from the transmitter the antenna directivity gain would need to be about 5dB (4.95 to be precise). This assumes no loss of power in the feed cable between transmitter and antenna.

An antenna gain of around 5dB is not difficult to obtain with four elements in an active or parasitic array and indeed a large number of different designs are possible. Beam antennas based on the Yagi principle and consisting of one active and three parasitic elements would, of course, require the use of a rotator because such antennas are highly directive. For omni-directional working, as would be necessary for mobile operation, an antenna gain of 5dB would be very difficult to obtain since the only really practicable system is one employing vertically stacked and phased half-wave dipoles otherwise known as a colinear antenna. As shown in fig: 4A this would consist of three or four closed spaced dipoles each driving the next in phase via a phasing stub the whole array being coupled to the transmitter either by a matching stub at the base, or by direct feed to one of the half-wave elements. The latter method is generally used when a colinear array of this nature consists of three elements. The maximum gain that could be achieved with this arrangement and assuming no resistive or other losses would be not more than about 4.3dB using four half-wave elements. For operation on 934MHz such an antenna would be about 24 inches long.

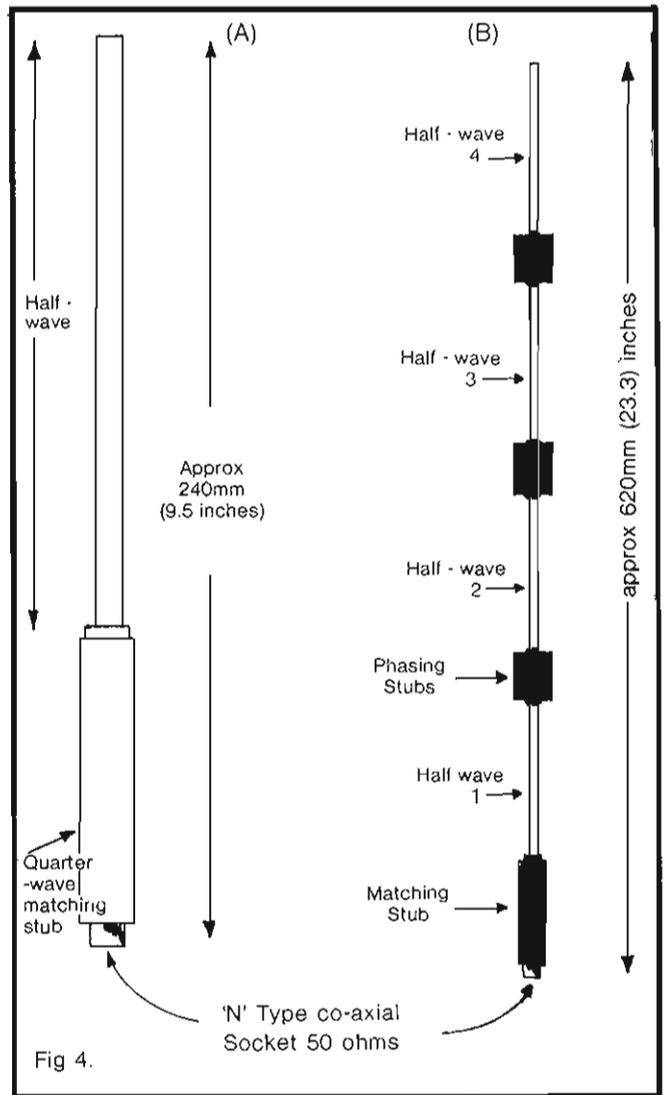


Fig 4: (A) An end fed half-wave dipole for 934MHz. (B) Configuration of a four element omni-directional colinear antenna for 934MHz. Gain, assuming no resistive or other losses, about 4.3dB over a dipole.

## Summary

Although operations on 934MHz is quite practicable and in indeed has been proved so, numerous special technical requirements have to be met not only in transmitting and receiving equipment but in antennas and auxilliary items as well. The cost of all equipment for 934MHz will be higher than that for 27MHz, but not excessively so. One potential manufacturer has estimated the price of a complete 20 channel transceiver for 934MHz at around £130. Units that will convert 27MHz sets for transmission and reception on 934MHz (sets will still be useable as normal otherwise) are an alternative and these could retail at £100 or less. A reasonable estimate for a base station colinear antenna with good performance is in the region £30 to £40.

One final but nevertheless very important point is that 'repeater' stations could easily be used to extend mobile to mobile operation ranges on 934MHz. Radio amateurs have them in almost every county in the UK operating on either the 145MHz (2M) band and/or the 432MHz (70cm) band. Satellite operation is also commonly used by radio amateurs allowing two-way VHF communication over distances of thousands of miles.

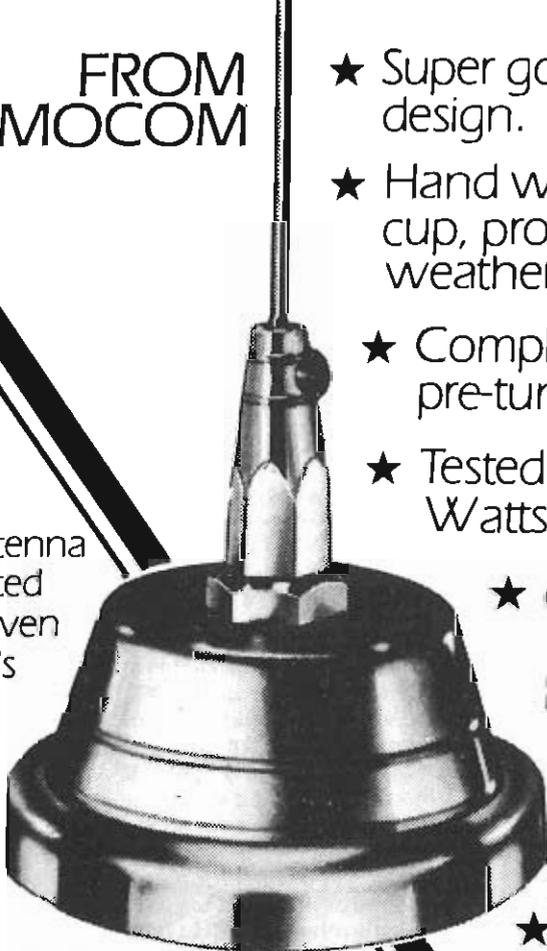
It will not be long before the advantages of 934MHz for CB radio becomes obvious and by which time the extra cost will also be appreciated.

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# SSB TRANS

By E.A. Rule. Part 1. Introduction to the SSB system of transmission.

The purpose of this series of articles is to have a look at the various circuits used in SSB transceivers and examine how they work. It is not intended to take them in any particular order but rather to take a section at a time as the fancy takes us. We shall also at the same time examine how to correctly operate the various sections where the operator has control so that optimum performance can be obtained. It is a fact that very many of the SSB rigs in use today are NOT being operated correctly and apart from the loss of performance this brings it can also cause problems for other operators using adjacent channels. This month we shall take a look at the way the SSB signal is produced.

## Sideband

So that audio intelligence can be transmitted over a distance by radio the audio signal is mixed with a radio frequency carrier, the transmitted signal contains 'sideband' on either side of this 'carrier'. The two side bands contain exactly the same intelligence and are in fact duplicates (although one is inverted, more about this later). Because both of these sidebands contain the same intelligence only one is required in practice to convey the 'message' and the other one can be suppressed. Also as these sidebands and carrier are now at radio frequencies the carrier can also be suppressed, leaving only the wanted sideband to be transmitted. The net result of this is that the final transmission takes up less channel space and all the available power is concentrated into the wanted sideband. To be strictly accurate this should be called SSBSC (Suppressed sideband suppressed carrier).

The method used to produce the SSB signal is complicated and is the major disadvantage of the system and is the reason why SSB transceivers cost considerably more than comparable AM or FM ones. We shall now take a more detailed look at one method used to produce these signals.

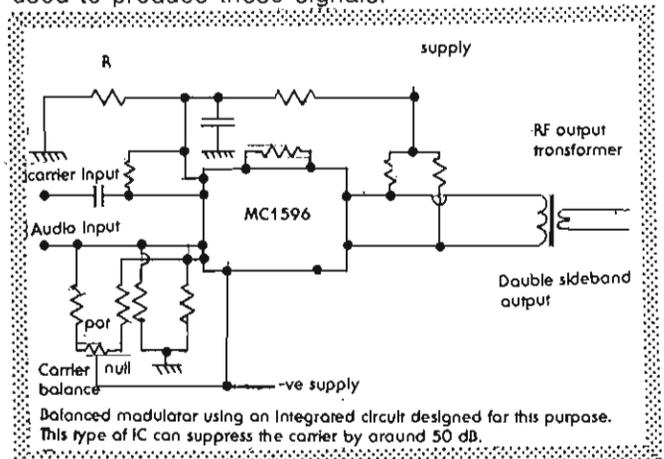


Fig 2.

## Generating the basic signal

The heart of any SSB system is the 'Balanced modulator' and the basic circuit of this is shown in Fig 1. This type of circuit is known as a 'Balanced ring modulator'. It is fundamentally a bridge circuit which has an audio and an RF input. The output obtained is a double sideband signal (DSB) but with the original RF input (carrier) suppressed. When RF is applied via T2 the first half cycle of carrier will bias D2 and D4 in a forward direction. The current flow is from the negative end of T2 to the centre tap of T1 where it divides and flows through each half of the winding, but in opposite directions. One path is via D2 and then to one end of T3, the other path is via D4 and the other end of T3. As this flow of current in both T1 and T3 is in the opposite direction in each half of their windings it cancels out and there is no

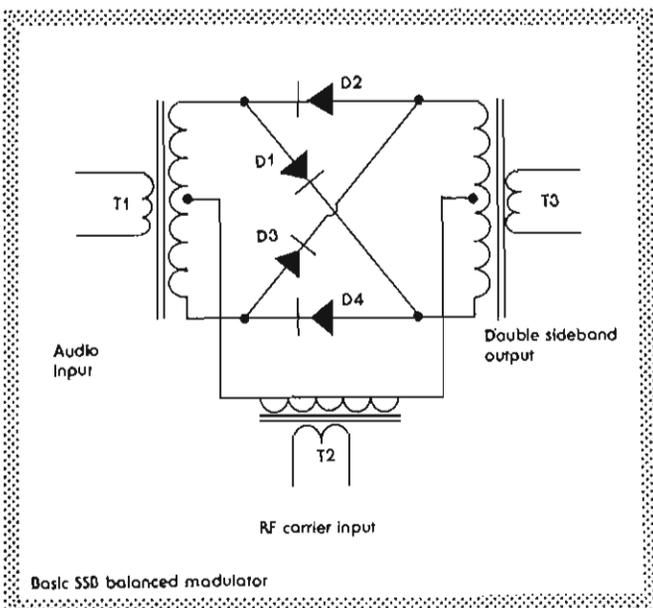
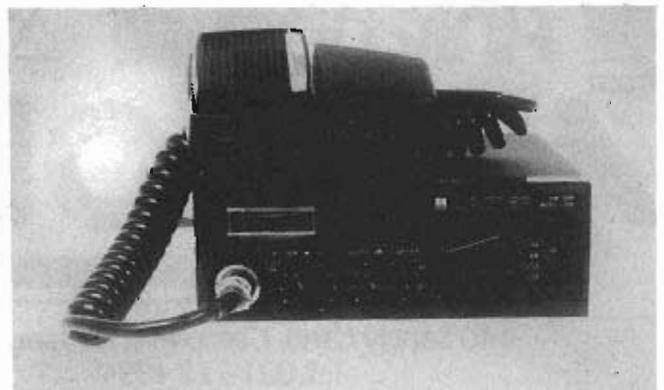


Fig. 1



# MISSIONS

output from the secondary T3, ie; the carrier is suppressed at the output. The currents combine again at the centre tap of T3 and return to the positive side of T2. During the second half cycle D1 and D3 are biased in a forward direction and again the currents divide in T1 and T3 so the carrier is again suppressed. Note that when one pair of diodes is forward biased the other pair are reversed biased (switched off).

Now if we apply an audio signal to the input of T1 conditions in the bridge change.

If the audio signal is applied at the same time as the RF the diode action will be unbalanced and this will allow RF to appear at the output of T3. This output will consist of the two sidebands of the combined RF and Audio signals but with the RF carrier still suppressed. The RF input to the balanced modulator is normally many times stronger than the audio signal and therefore decides which diodes conduct. Current flow will still be in the same directions but due to the audio signal now present the actual current flows are unequal in each half of T1 and T3. It is the difference between these two unequal currents which will appear in the output. T1 would be a transformer designed to work at

the low audio frequencies, say 300 to 3000 cycles and T2 and T3 would be designed to work at the Radio frequency in use, normally around 7MHz. Because these two frequency bands are so far apart none of the audio signal appears in the output of T3. The only signals present at this point will be the two RF sidebands. The next step is to remove one of these sidebands leaving one for transmission.

In a practical transceiver the circuits would be more complicated due to the need to maintain a balanced system and to ensure that the RF carrier is fully suppressed, however the principle is the same. An actual circuit is shown in Fig 2 and as can be seen this uses an integrated circuit. Whatever system is used to produce the DSB signal the final result is the same, two sidebands and a suppressed RF carrier.

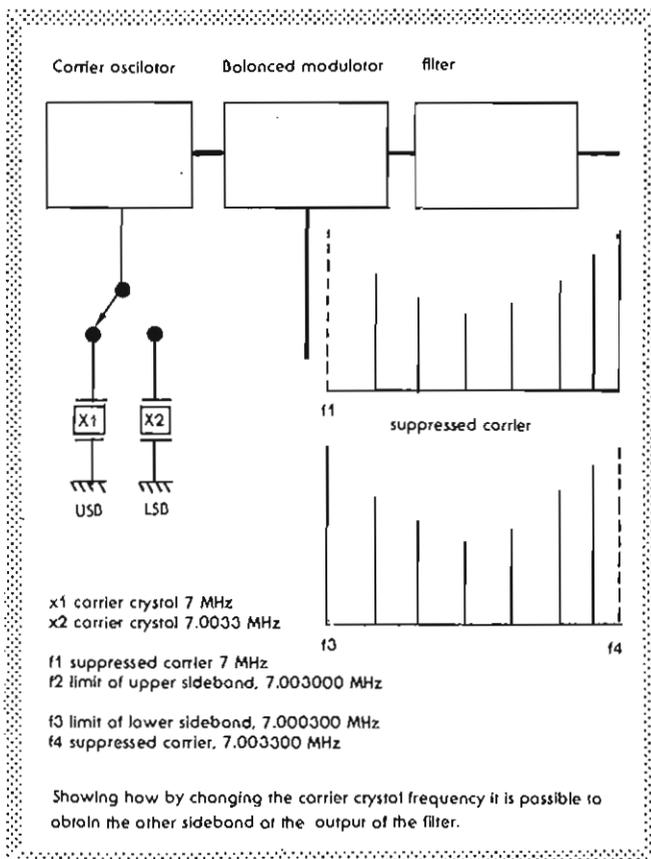


Fig 3

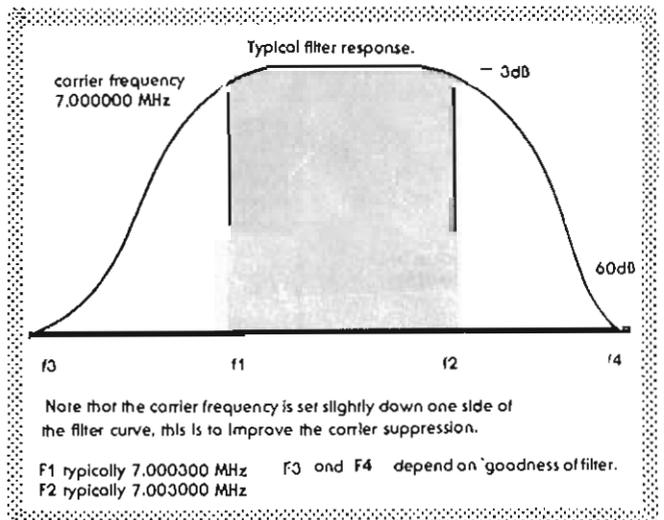


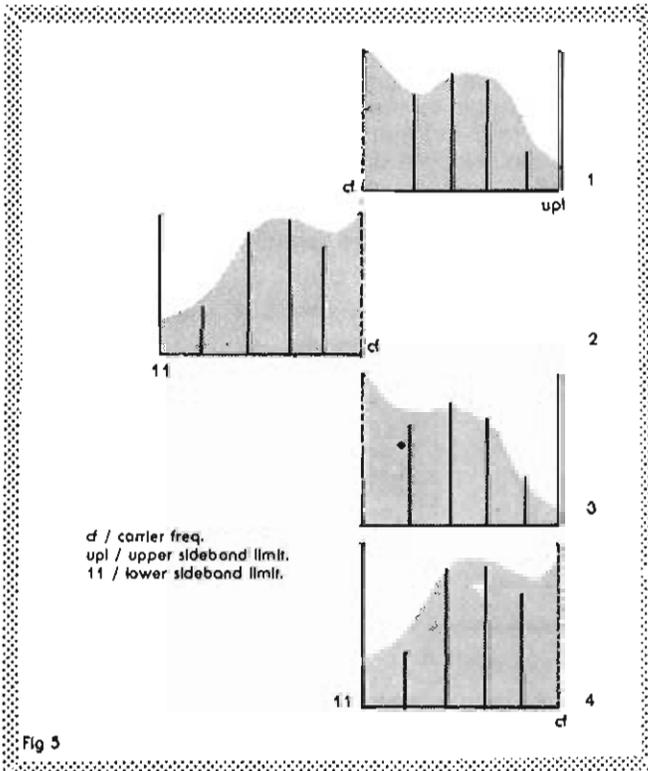
Fig. 4

## Removing the unwanted sideband

The DSB signal is fed into a filter which is selective enough to only pass one of the sidebands present, it will also further suppress any residual carrier. The block diagram in Fig 3 will help in understanding how this is done. Our RF carrier starts off at 7MHz & is fed into the balanced modulator, audio signals over the range of 300 to 3000 Hz are also fed in and the resulting sidebands are produced at 7.000300 to 7.003000 MHz. Therefore it will pass only these frequencies and reject any others. This results in only the UPPER sideband passing on to the next stage. If we want the lower sideband we can do one of two things. We can either switch in a different filter with a response from 6.999700 to 6.997000 MHz which will accept the lower sideband and reject the upper, or we can change the RF carrier frequency. If we change our carrier frequency to 7.00330 MHz our sidebands will now be 7.00360 to 7.00630 MHz (upper sideband) and 7.003000 to 7.000300 MHz (lower sideband). This lower sideband contains the

# SSB TRANSMISSIONS

same frequency range as our original upper sideband but it is now 'inverted'. This raises a very important point. If a rig is in use which has selectable sidebands and two different filters and contact is made with another station using a rig which changes the carrier frequency, the various sidebands ARE NOT COMPATIBLE without returning one of the rigs. In one case the actual carrier frequency remains the same and the sideband shifts to one side or the other, and in the other case the carrier shifts to the other end of the same band of frequencies. Fig 5 shows what happens. This means in practice that although you may be in contact with another station on say upper sideband, when you both switch to lower you lose contact! Now you know why some stations always appear to be off channel!! You would need to use your clarifier to retune.



Showing how the change of filter produces a different sideband to a rig that switches filters. Diagrams 1 and 2 show a rig with switched filters. The actual carrier frequency is the same. Diagrams 3 and 4 show a rig with one filter but which changes the carriers frequency to change sidebands. Note that in both cases the UPPER sideband is the same. But that the LOWER sidebands are not compatible with each other.

## Receiving the SSB signal

Before any intelligence can be obtained from the received signal it must be converted into audio and we will now take a look at how this is done. The circuit used is called a 'product detector' and a typical circuit is shown in Fig 6. The received signal will already have passed through the sideband filter and have only one sideband present, this signal (which is at the receiver IF frequency) is fed into one input of the product detector and the RF signal fed into another. This RF signal must be of the correct frequency so that when it is mixed with the IF signal the resultant 'beat' is at audio. For example, if our incoming frequencies are 7.000300 to 7.003000 MHz and we inject a 7.000,000 MHz signal it will mix with these and produce 14.000300 to

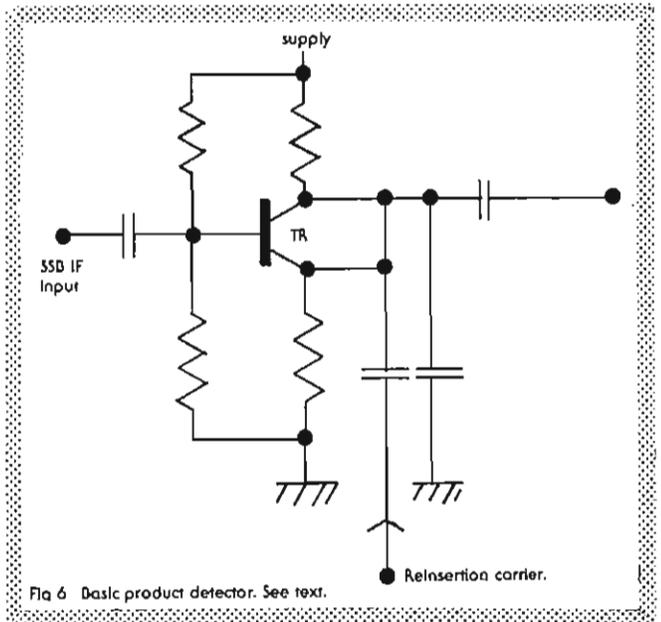
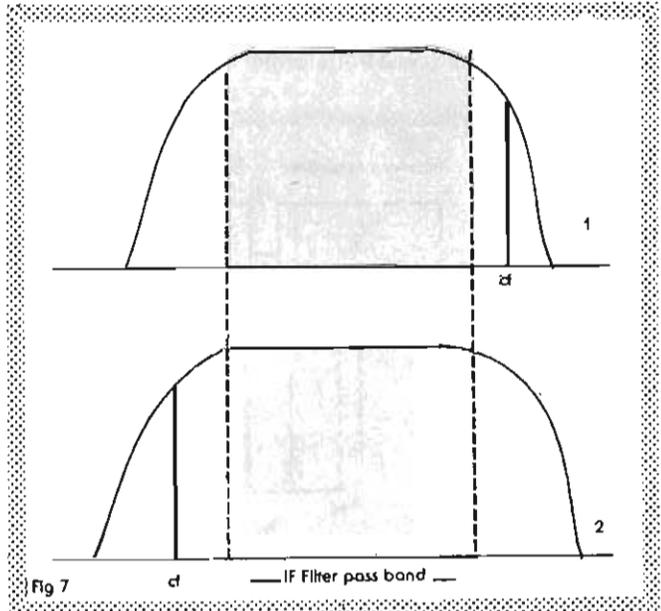


Fig 6 Basic product detector. See text. 14.006000 MHz and also 0.000300 to 0.003000 MHz (300 to 3000 Hz). The signals at 14 MHz are not wanted and are removed by filtering which leaves just the wanted audio signals to be passed to the next stage. The clarifier fitted to most SSB rigs is simply a means of adjusting the injected RF (our reinserted carrier which you will remember was suppressed during transmission) so that the resulting audio is at the correct 'pitch'. It also enables differences between rigs to be compensated for. Again, to receive the other sideband, either the filter or reinserted carrier frequency can be changed to the other side of the incoming signal. Fig 7 shows how the latter works.



By shifting the reinserted carrier frequency the audio output from a product detector can be 'inverted' so that the other side band can be detected correctly. 1. this shows correct position of carrier to reproduce audio from a lower sideband signal. 2. this shows correct position of carrier to reproduce audio from an upper sideband signal.

In this first part of the article we have covered the generation and recovery of the SSB signal in some detail but without getting into the mathematics involved in a full technical description. The remainder of the transceiver is similar in many ways to the AM and FM types and during the next few months we shall take a look at some of the other circuits in an SSB transceiver and their functions.

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# LEGAL RIGS!

**MIDLAND**  
INTERNATIONAL CORPORATION

Midland quoted as Americas # 1, arrives in Britain as 27FM

With coming legalisation of 27 FM many companies have announced their intention to produce equipment for our British market, however few to date have the standing and reputation that compares CB wise, with the Midland name.

Midland is a much trusted and well loved American rig, built in a robust casing their design gives the owner operator a secure feeling of durability.

Now the Precision series 2001, 3001 and 4001 mobile will be released in Britain as 27 MHz FM to meet our British specifications. These three mobiles feature on our front cover and do not differ cosmetically from their American counterparts save for the switch wording i.e., Local and Distance.

Internally, they will be pure FM and we are assured will perform to the standards expected from a quality transceiver.

## The Midland Range

Included in the range to be released with legalisation is a hand-held 3 channel walkie talkie 75-720 and a 'Ready Rescue kit containing plug in cigar lighter power supply and a magnetic mount antenna. Along with the Midland base station, the 79-200, which will differ cosmetically from the American counterpart, a total of six transceivers will be available.

This will be backed up with the normal sales and service one expects from a high street retail outlet and for a total Midland package we understand that an SWR/Power meter on extension speakers and two antennas will supplement the range.

## 2001 Mobile

The baby in the range, but it contains all the necessary basics to keep a CBER happy, a strength/RF power meter, on/off volume control and a squelch facility.

## 3001 Mobile

Mid ranged this model is larger in size and has a Local/Distance switch facility as well as squelch, CB/PA, filter and adjustable RF gain. This allows the user to reduce the sensitivity of the receiver and can be useful if trying to maintain a conversation with a companion in close proximity, i.e. the motorway.

## 4001 Mobile

Again one can shout at passing motorists with the PA (Public Address) facility, although little used by most CBERs it can often come in handy. However the added extra on this model is the microphone gain control which if used correctly stops over modulation of your signal at reception, again this is useful in close proximity. The unit also includes a filter switch along with squelch, RF gain, Local and Distant switch, LED channel

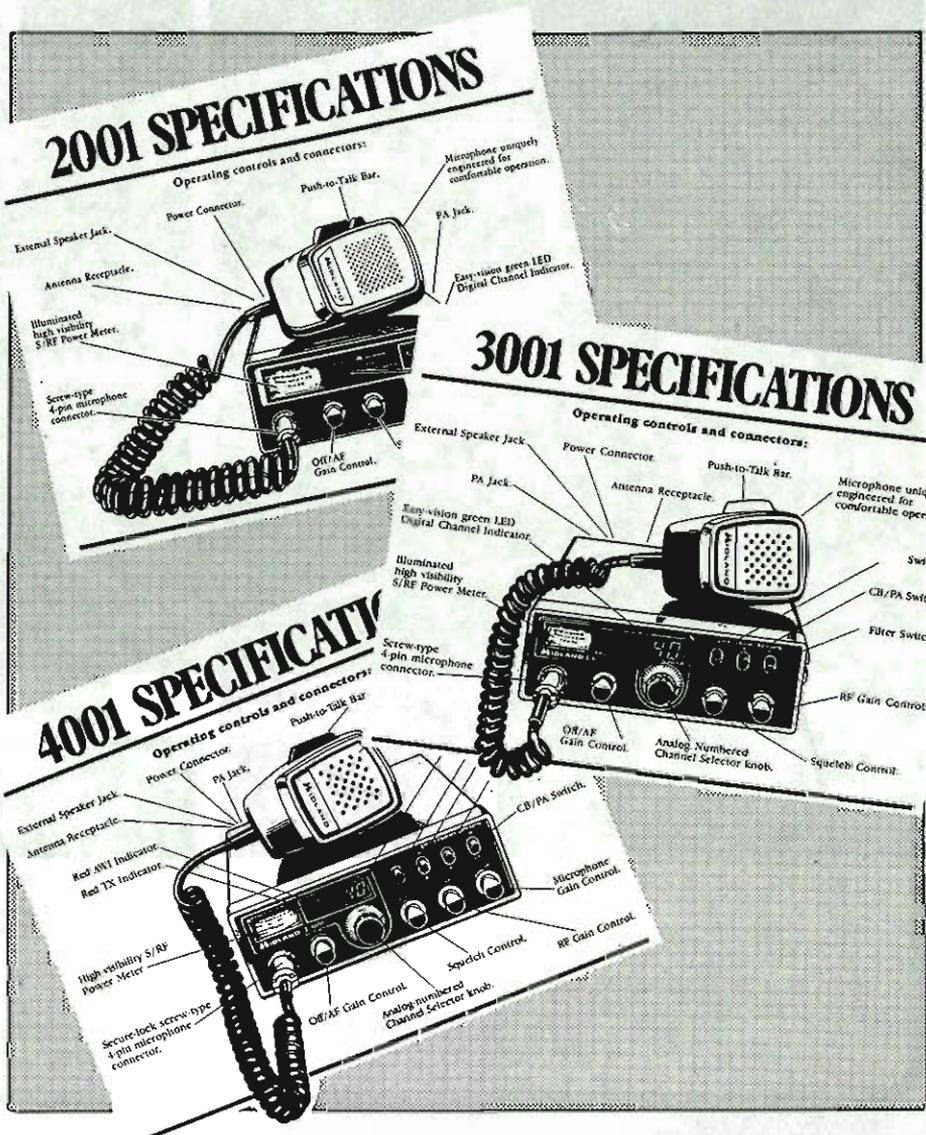
indicator and strength/RF power meter.

## Britain's No 1?

Acclaimed as Americas # 1, it should be interesting to see the reaction of the British public to this well known range.

Undoubtedly, the company marketing the Midland range intend to make their mark on the CB market and perhaps that No. 1 spot could be filled by them.

JOH







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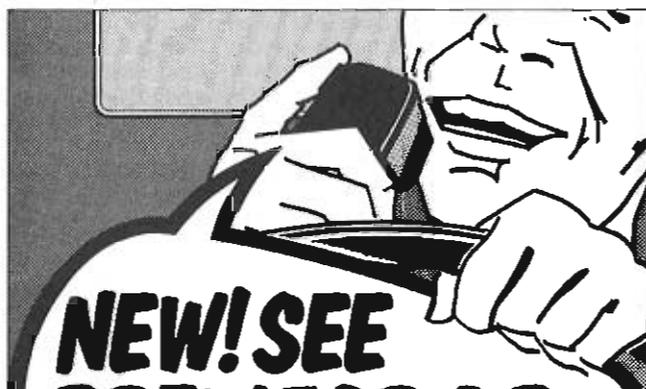
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Come September there's going to be a lot of rubber ducks, smokey bears, 10-4's and convoys buzzing about the airwaves so you better find out what they all mean by getting down to the new C.B. Radio centre at Brew Brothers.

Yep, everything you want to know about C.B. Radio can now be found at Brew.

Our new department stocks aerials, handbooks, instruction packs, microphones; in fact everything except the new F.M. sets, (which don't become legal till September). We'll give you expert advice on fitting, on use and on operation to ensure that you get the most out of this great new craze.

So get yourself down to Brew and learn a thing or two about C.B. Radio now: *We open Mon-Sat 8.30-5.30 Sun 9-1.*

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# DX QSL

# INTERNATIONAL

# CLUB SPOT

Incredible isn't it how fast the UK DX/QSL scene is growing.

Because so much seems to be happening at home, I thought I'd better devote a fair bit of this months article to the domestic scene as well as taking the customary look into the International DX/QSL world. Apart from that I did promise last month that the format would change slightly for a while and the star rating does not really apply. Actually it strikes me that our foreign brothers are beginning to realise that foreign DX/QSL clubs have appointed representatives over here. To the best of my knowledge I don't know of any other club representatives. I stand to be corrected and hope I am.

The first club which appointed a Rep. was Tom Sowdens "Keep in Touch" (New York, U.S.A.).

A famous name crops up now. The one and only Mike (Medicman) Newbold became this countrys representative for Harry Hertz's "Super Stinky" club (West Germany) around the middle of 1980. I think anybody who reads any of the U.K.'s CB publications will be aware of Mikes AD. If not, try British Concordes AD. You'll reach Mike this way.

The latest club to appoint British representatives is Ian Shrader's "Sandcastle QSL Swap Club" (Pacific Beach, Washington, U.S.A.). Who by the way is contributing to this spot next month with some International DX-QSL addresses, nice one Ian! Ian's overall UK representative is Clem J. Bains (Music Man), 151 Ferryboat Lane, Hylton Castle, Tyne & Wear. Clem is a very keen and knowledgeable DXer/QSLer, last time Clem sent a package over to Ian Shrader, not only did it include a tape but also a packet of Smarties. In return came something back called Beef Jerky! That's one of the weirdest QSL swaps I've ever heard of. Clem is also the man to contact with regards to the famous "Dirty Doodler" QSL cards. I'll have more information about the "Dirty Doodler" next month.

## British Clubs

Does the name November Papa DX group mean anything to you? I'll be honest, until recently it meant nothing to me. I've since learnt that the November Papa DX Group is actually an organisation within a normal AM club, (Ness Point CB

Club, Lowestoft). It's a pretty good idea, local DXers getting together to work "hand in hand" so as to speak. Although it's a "club within a club" the November Papa DX group operates in much the same way as a standard DX/QSL club. Upon joining, members receive quite a reasonable club package including, certificate, I.D. card, club stamp etc. If

me is the "Happy Cobblers" of Northampton. Actually this is a very young club, only starting up on May 1st. Considering it is such a young club, they really appear to be going places. up till the beginning of September, they had 100 members including about 35 overseas. A good ambitious start.

The "Happy Cobblers" are quite a clever bunch of DXers/QSLers unlike most of us mere mortals, who are subject to the whims and fancies of printers, the "Happy Cobblers" get on with it themselves. Most of their printing is done by themselves, using a screen printing technique.

Should you have an interest just roll up and ask for Chris HC01. International membership is also handled by Chris. Life membership is £3 plus 5 or more of your QSL cards. The package includes Certificate, I.D. Card, Adhesive stickers etc. Extras available soon include Rubber Stamp, Cloth Patch. For further information contact Chris Darlington, 51, Southolme Court, Northampton.

The last UK outfit I'd like to tell you about is the Whiskey Tango Club. This is an unusual outfit in that it is for under 21 year olds only. I say "like to tell you" because that's the situation. Like to, but unable to! It's a very unusual application form I have hold of. There's absolutely no AD on it anywhere. A strange way of communicating this. I wonder if it is all done by E.S.P.

## 100% QSL'ers

You can rest assured that whenever a name and AD appear on these pages it is only after permission has been granted. In the case of QSL swap it will be a guaranteed genuine 100% 1-4-1, not just an AD taken off cards willy nilly.

To prove it for starters, here's three UK. 100% 1-4-1 ers.

**Mark James** - "Engine Driver" of 54 Harlech Crescent, Tycoch, Swansea. SA2 9LL. He is a Railway nut and his special QSL likes are fellow Welsh QSL cards or Railway cards.

**John Walker** - "Double Decker" of 7, Widdington Court, Stockton, Cleveland. TS19 8UF. He is into Bus Photos, Beer Mats, Maps (Maps) in fact any QSL 1-4-1.

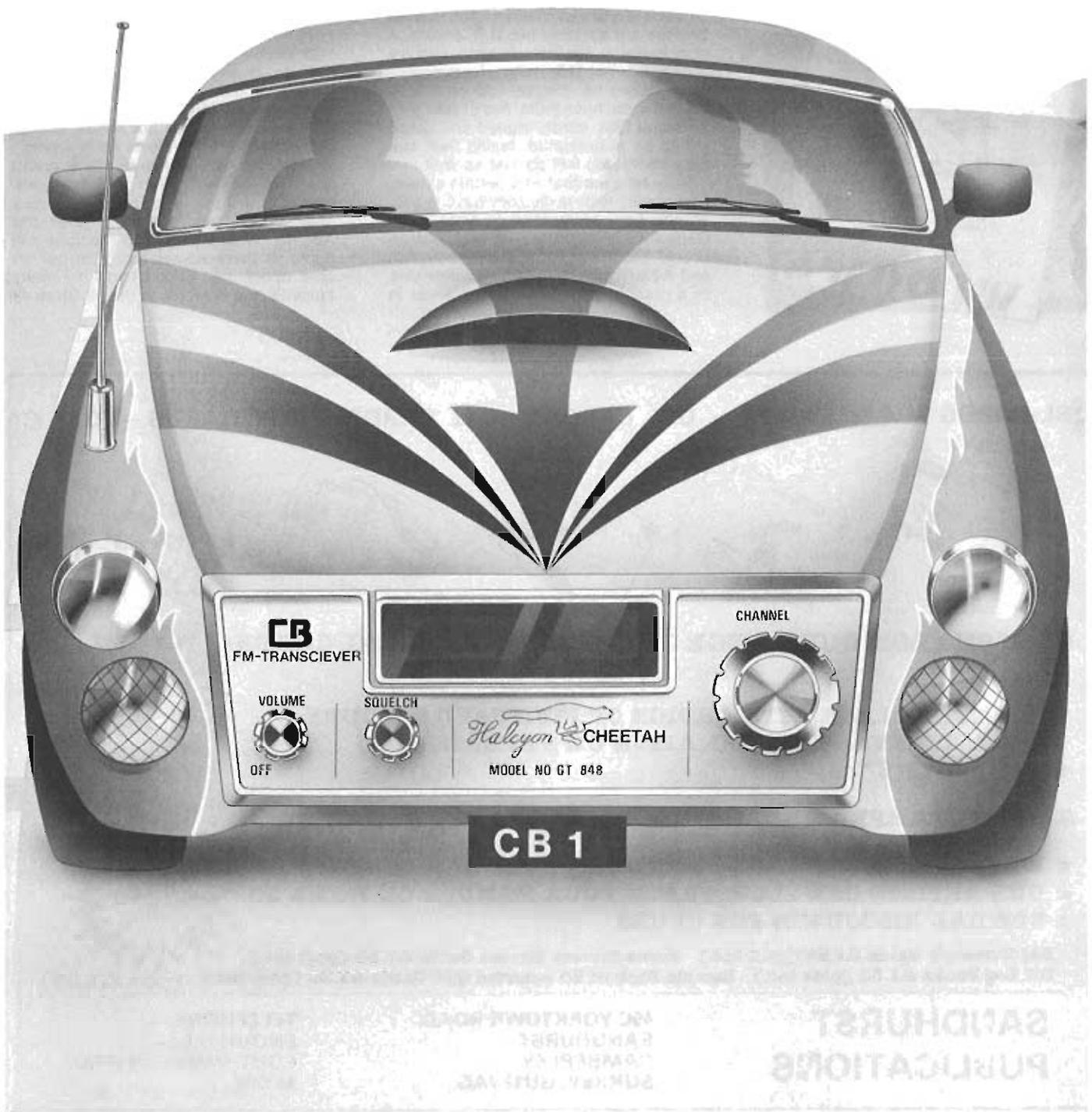


you're interested in learning more about November Papa either send a card to Bob Little 1 Greenfield Road, Lowestoft, Suffolk or give a shout on the clubs standby channel of 68 L.S.B. Either way Bob will be pleased to fill you in with details.

Another UK. DX/QSL outfit which up till recently was an unknown quantity to



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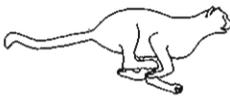
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# Vultures on the Side



## Blue Sharks rig – Down and Out?

Blue Shark's experience of the British judicial system has left him financially the worse and with a poor opinion of the system. Although treated fairly in court he was eventually forced to plead guilty purely because he could not afford to fight the case.

The saga began last July when Blue Shark and two friends were parked in a car park on the cliffs at Brighton. Blue Shark had a rig connected in the car. The car was approached by a couple who identified themselves as police officers and demanded access to the car although they were not in uniform or on duty and were in a private car. They informed Blue Shark that they suspected there was a CB in the vehicle but he refused to let them into the car. The officers threatened to smash the windows of the car to gain entry and phoned for further assistance. Blue Shark, alarmed by the threats, agreed to give up the rig as long as the make and model were recorded and the officer who arrived to help and who was in uniform agreed to do so. The police made a visual inspection of the set and passed it back to Blue Shark. They then demanded entry to the car again and threatened once more to smash the car windows. Blue Shark, knowing when he's beaten, let them look. They found a set of 'boots' which they wanted to confiscate – this caused an argument but Blue Shark let it go as the set was already lost. Suddenly getting angry at the whole affair Blue Shark picked up the rig and threw it over the cliffs and was promptly arrested for obstructing a police officer in the course of his duty.

## Solicitor's Advice

Blue Shark was taken to the local police station, searched, questioned and locked up. Eventually released an hour and a half later, he was bailed to reappear at the police station a month later. On presenting himself at the station he was told there was to be no charges made. He got all the confiscated accessories back; his SWR meter, boots and antenna and was told by the police that they didn't want to get involved. He got the impression that the two officers concerned had a personal crusade against CB and that they monitored the channels to collect information.

Six weeks later he contacted the Post Office to see what the situation was. They confirmed that they held the set and that although it was illegal they were not intending to prosecute. A month later Blue Shark's solicitor wrote for clarification of the acts that the police had detained the set under. He received a reply from the Customs and Excise Department requesting an interview with Blue Shark. At the interview Blue Shark refused to give any information other than his name, address and age, and he would not answer questions concerning where he got the rig or who from. Customs and Excise said that they were not interested in prosecuting and served him with an official seizure notice. Since he felt he had escaped lightly he decided not to fight the loss of his rig.

## The C.I.D. Call

Some months later Blue Shark received a recorded letter summoning him to a court appearance at the local magistrates court. Unfortunately the letter had not been delivered until after the date of the case (In fact the court hearing was only five days after the date on the letter – giving hardly any time to consult legal advice). In his absence Blue Shark was found guilty for offences against the Wireless Telegraphy Act and fined £200 and £75 costs. Police evidence was the only information given in court. Blue Shark immediately made a sworn declaration to a Justice of the Peace that he had not received the summons until after the case and lodged a complaint. The court proceedings were declared null and void and Blue Shark was served with another summons – for the same offences personally this time by the local C.I.D.

This one only gave him eight days to prepare his case, so Blue Shark's solicitor appeared in his place to ask for an adjournment. Blue Shark was granted a further six weeks. Because of problems with obtaining an experienced barrister and correct advice, three solicitors later Blue Shark asked for, and got, a further adjournment.

The case finally came to court in August 1981 – 13 months after the event. Unfortunately by this time Blue Shark's financial resources were running thin so

he was forced to plead guilty although police evidence was very circumstantial.

## 'I am instructed . . .'

The Home Office prosecutor was rather unfamiliar with his subject and went on at length about interference problems generally. Blue Shark was given every opportunity to state his case and explain his actions – the magistrates were obviously impressed that in the intervening time Blue Shark had studied for and passed the Amateur Radio examination. Blue Shark emphasized that although he had to plead guilty and understood the nature of the offence he did not feel he had acted like a criminal, and produced evidence of positive things that CB achieves. The magistrates were obviously rather bemused by the technical aspects of the case – as was the prosecutor as he constantly referred to his notes and said "I am instructed . . ." when faced by something he didn't really understand.

Blue Shark was fined £100 and £50 costs. he was disappointed he had not been able to fight the case as he wished although local clubs had offered to help raise funds if necessary. But why did the case ever come to court when the parties involved were not interested in prosecuting? The police evidence rested on two off-duty officers who may have had a personal campaign against CBers. They maintained they observed Blue Shark talking into a microphone – from a distance of 20 yards in complete darkness when Blue Shark's car was parked between two others. Was the decision to prosecute then taken further up the ladder when it was realised that Blue Shark was a very prominent local breaker who had helped form the local club, organised demonstrations to London to support CB and an active campaigner??

Whatever the reason, Blue Shark's opinion of the legal system has taken a bit of a knock. Although this was, in the scheme of things, a minor case every citizen should be able to defend himself in court without facing financial distress and not be "forced" to plead guilty because his resources will not let him fight.



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### Specifications

Model ..... M2000  
Whip ..... Tapered 17-7 PH stainless steel. Full 60" length.  
VSWR ..... 1.5:1 or better, Channels 1 through 40.  
Cable ..... RG-58U, 17' with in-line (½" dia.) miniature connector.  
Connector ..... PL-259.  
Mount ..... Trunk lid, no holes or roof mount (¾" hole).  
Total Height ... 66".



**M2000**

## **CB5000**

CB/AM/FM DISGUISE ANTENNA. 5 section locking telescopic, Diplexer preloaded. Fine tuning only required. Power rating 50w. (The replacement for the M810).  
Plus all the other popular models, M8264, M125, MR440, 'STARBUSTER' M400, MIGHT MAGNUM M227 etc.



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### Features

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- Solid brass connections imbedded in base. Can't break or shake loose.
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### Specifications

Models ..... ASC 550 to 556.  
Whip ..... 3', 4' & 5' fibre glass, ¼ wave.  
VSWR ..... 1.5:1, all 40 channels.  
Connector ..... PL-259.  
Mount ..... Fits any ¾" - 24 thread.



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VSWR ..... 1.5:1 or better, channels 1-40.  
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- HB Litherland & Co Ltd. 237 Caunce Street, Blackpool, (0253) 32269
- RT Controls, Trident Drive, Britannia Road, Norwich, Norfolk. (0603) 614321
- Open Channel Communications Ltd. Empress Street Works, Empress Street, Manchester, M16 9EN. (061-872) 5438

# Come Back the Breaker

Get a legal copy on a fellow breaker!

## Surf City Breakers

May I through the medium of your excellent and informative magazine say a big thank you to all the Surf City Breakers from my XYL and myself for the kindness and hospitality they showed to us on our recent trip to Cornwall. We put out a call on 14 for any 'Surf City' Breakers as suggested by 'Commissioner' in your July issue and the response was terrific, we got many copies and quite a few eyeballs.

In fact we found all over Cornwall that the breakers were real 'Good Buddies' who really went out of their way to make visitors feel welcome.

Many thanks to all breakers who we met or copied, the handles are far to numerous to mention but you may be sure that here's two breakers who will 'come back'.

73's to all  
'Nightjar' & 'Airsporter'

## Half Way House Breakers

I was wondering whether you could help me say thank you to all the Half-Way House (Hartley Wintney) Breakers. Whilst I was down there we had an unfortunate death in our family, their concern, kindness, laughing and joking cheered and comforted me through the time that I was among them. I had a number of wonderful eyeballs and took part in my first CB Fox Hunt.

So to Train Spotter, Working Man, Trucking Queen, Dinkcom, Pinnocchio, Haystack, Plane Maker and everyone else that I copied, I wish you all the high numbers and say 3,2,1, Star Lord blasting off.

All Yours

Star Lord (Tony)

P.S. A special thank you to Cow Man for all you did and U.P.A.

## Royal Wedding

I would just like to say thank you to a breaker we met on holiday the other week. When we arrived at our holiday cottage just outside Lions Town in Herefordshire we had a few copies with local breakers and on the day before the Royal Wedding my wife 'Ladybird' put out a copy for information on anybody knowing where we could watch the wedding on TV. A breaker came back and said that he didn't know anywhere locally, his handle was 'Crankshaft', but a breaker on the side called Little Swift offered us a colour T.V. that we could borrow. We gave him our location and he

turned up with the t.v. half an hour later. We had never seen him before and he did not know us. It was the kind of deed that really shows how worthwhile CB is. So once again thank you to Little Swift. All the golden numbers to all CB'ers  
Dorset Ranger & Ladybird  
(Bournemouth)

## Big 'H' Breakers

Thank you to all the breakers who came to the Helensburgh CB Club Disco on Friday 14th August. This was in fact to celebrate the first anniversary of the club. It was only the second disco we had organised, and the huge demand for tickets took us all by surprise, we actually sold out altogether and had to turn people away at the door. Many thanks to everyone who helped to make the night such a huge success, especially Sportsman who used gallons of motion lotion travelling around selling tickets and Green Giant who put on a superb buffet without giving anyone food poisoning.

Thanks also to all the breakers from Greenock, Dumbarton, Port Glasgow and wherever else they arrived from.

Here's hoping that the next one is so successful and if you don't print this letter we are going to send Sportsman down to your offices to tell you his jokes. A fate worse than death.

73's and 88's

Moonshadow (Secretary)

## English Breakers

I am an English speaking breaker in West Germany. I've come to London on holiday and I decided to try and find some London Breakers. I bought a copy of your magazine to find out where the clubs hang out. I attended the Elite Breakers Club at the Windmill Public House in Lambeth High Street, London. SE1. I arrived at the afore mentioned pub at approximately 8.00pm. There were four guys telling jokes in one bar and four guys and a girl in another. If any of these are London breakers they are appalling. None of them said a word to me and I had my skip/handle and breaking channel written across my chest.

I went along to the Club 14 at Willesden and they invited me to join their club, unfortunately I will be back in W.Germany by their next meeting. The one thing I really found strange was when I asked around, hardly anyone knew what I meant when I asked to swap QSL cards. But I had a great time and a great many

beer - 'hic' - too many. But I shall return there on another Thursday night. I would like to thank all of the breakers at Club 14 for a great time. Wishing them 73's, 8's and other good numbers. This is Night Rider of West Germany going. 10-10 till we do it again.

## Eyeball in Manchester

We are proposing to stage an eyeball in Manchester at Bellevue, in the last week in October 1981. There will be trade stands with legal rigs on show from as many manufacturers as possible.

Anybody interested may phone me - Eric Openshaw on Bolton 653442.

## Have A CB Weekend Holiday By the Sea

We are calling it the North East's Biggest Eyeball of 1982 organised by the Beach Breakers. Venue: Gypsies Green Stadium South Shields. Commencing Friday evening 30th April to Monday 3rd. May 1982. Trade stalls, entertainment, fun and games for all. Camping and parking facilities available. Bed and breakfast accomodation also available.

For details and bookings (traders and visitors) contact:

Beach Breakers Chairman,  
54, Kingsley Avenue,  
South Shields,  
Tyne and Wear.

Or telephone:

South Shields 567352  
South Shields 562634

When writing please enclose a S.A.E.

## A Plea from Germany.

A friend of mine, George, who is in the US Army stationed in Germany sent me a heartfelt plea "Can I please get him a 12 volt DC AM/SSB 100 watt Bi-linear". Apparently they are pretty rare and verboten in Germany so he is really stuck. Actually I was rather chuffed to think that a guy from America, the land where CB was invented, had to ask us in Britain if we could help, anyhow his address is SP/4 & MRS. George Wight, 551-04-0991, 240th Supply & Service Co., Box #337, APO. New York 09696. U.S.A.

So if anyone can help him pick up his box of tricks or should I say pack of power, drop him a line. I am sure he would be delighted to hear from you.

GREENFINGERS  
Tyne & Wear



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9. Super CB Operator.



10. This is CB Country.



11. Rubber Duckin' Keep On Truckin'.



12. Licensed CB Operator.



13. UK CB Operator.



14. CBers Are Great Lovers.



15. Midland Maniac.



16. Firestik.



17. I'm So Happy.



18. Sleep with a Trucker.

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2-3.5A POWER PACK.....	£8.65
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# Readers Write

I wish to make a few comments about Graham Crow's (Angel) letter in your July edition Vol. No. 2, Issue No. 13. I totally agree that now is the time to sort out what breaking channels should be used on a National basis. In view of the impending legal network, this should be agreed now and published by the National Press on the date it becomes legal, so that new CBers will have some idea of how to go on the air without bleeding or walking all over others. Even more so in the case of the Emergency Channels 9 and 10, which I understand REACT have already come to arrangement/agreement to monitor, including one other back-up channel. Even with the 27AM it is getting so crowded that there appears to be a need for two or at least the most three breaking channels.

I myself propose that the following are used, Channels 14 and 16 for local breakers, Channel 12 national Breaking channel for travelling breakers, Channel 19 for Motorway Traffic Monitoring Information, Breakdowns and such like, and finally Truckers (who have the right by long standing use to this channel, most of whom are only too willing to assist other motorists with info). Channels 9 and 10 for Emergency use only (i.e. not for a vehicle which has gone off the road and there are no injuries, danger to life or other property, or minor damage only RTAs).

10-10, 73, Yorkie Bar.

*A sensible view on breaking channels, but after a few years of illegal AM breaking, do you think it is really going to change on FM?*

ED

Dear Ed,

May I through the columns of your magazine reply please to 'Disillusioned Prospective CBer' who gives the handle of 'MOZART' in the Yorkshire 20. (Readers Write, July 1981).

I was appalled and disgusted when I read this letter. Doesn't the man realise that without the illegal system that we have now there would never have been the pressure on the government to introduce a system for the British people, albeit a system that is neither use nor ornament to man or monkey.

Thursday 26th February 1981 certainly was a momentous day in the history of British CB Radio but of course there wasn't dancing in the streets or jubilation in victory. This was not a victory, merely a step towards the goal that we aim to achieve, that is a CB system for this country that is as good as and indeed better than any other country in the world. I can assure MOZART that I along with the majority of at present illegal CB users in the UK, will stay where we are and continue to pressure the

government to legalise the system we have now and perhaps recoup some of the losses they have made, both in duty and licence fees. Only then will I allow myself to relax.

As for the language used, what does he expect us to say when we are using a system that was developed in American TV and films. Does he seriously expect us to change all that at such a late stage, and introduce a terribly British, far back, la de dah type of code?

I have studied geography and I personally am glad that I live far enough away from Yorkshire to know that Mozart is unlikely to appear on any channel I am listening to.

I am sir, Yours Faithfully,  
DEREK R. RHIND, BLACK RUSSIAN

*Well, there is not much that I can follow that with. Mozart really did stir up our readers. Perhaps Mozart has comment or maybe his opinion may have changed slightly.*

Dear Sir,

My wife and myself have been on the air for about six months now (with illegal rigs). I was always under the impression that AM was the best thing since sliced bread until I got chatting to a Radio Ham (licensed type).

He invited me to his car in which a 'rig' was installed. He had made the quarter-wave antenna himself and he said that he was not very happy with its performance, yet as "he could make it a lot better than it is".

We sat in his car in a street with "loads of concrete around us", tall buildings etc. and he proceeded to "get a copy" using his call sign etc.

The guy he spoke to was 15 miles away. I could not believe my ears. It was as if he was sitting in the car with us, no interference at all, clear as a bell. They were on first names after a while and gave exact locations (in plain English). They spoke about lots of things, family, cars, jobs, exactly where they lived etc.

After the transmission, he asked: "What do you think of AM now?" I said I felt like throwing my rig in the dustbin. He then told me he could use "repeater stations" if he wanted to get another 30 miles or so. (No repeater was used during the demonstration).

His rig was about four years old and rated at 2 watts with a home made twig. He asked me what I spoke about on my rig whilst looking over my shoulder every five seconds. I suddenly realised how boring and almost pointless illegal rigs can become. I told him the usual things said WHAT'S YOUR HANDLE? WHAT'S YOUR 20? WHAT RIG/TWIG? HOW MANY POUNDS AM I PUSHING? 10-10 BREAKER BREAK!

"Exciting, isn't it," he said. "The point is, most people like you have been ripped off with grossly inferior equipment built to specifications which are almost a joke. The people that sell AM equipment are bound to say its great for one good reason: Money, no tax, no import duty, no VAT, cash only, no receipt therefore little or no guarantee, they will be always before AM." I said if I could buy a legal FM rig as good as his, I would be more than satisfied.

He said there is no logical reason why legal FM rigs should not be as good because they will have to be built to comply with HO standards.

If any breaker doubts FM I suggest they ask a mobile "HAM" for a demonstration, they will undoubtedly change their mind!

TUNIN' FORK (Chinatown)

P.S. Any breaker that has been on AM for a long period of time will be able to reassure that it hasn't always been the same. How long before FM becomes littered with "What's your rig"? etc.

Dear Sir,

934 MHz is considered to be a bad dream. Why did the Government want it? Let's look at it with an open mind. 'Give it a chance' and a fair crack of the whip!

The disadvantages:

- 1) Cost £150/£200 some say
- 2) Aerial very complex
- 3) Unsuitable for mobile use, 240 volts only
- 4) Only two manufacturers are thought to be interested

The advantages

- 1) Something different
  - 2) Hand made, not built by robots
  - 3) Range up to 50 kms
  - 4) CBers can build their own rigs
  - 5) No interference by other users
  - 6) Aerial directional only
  - 7) No skip problems to overcome
- Strange it might sound, it could catch on, if given the benefit of the doubt.

Yours faithfully,

C. LEE

P.S. I wonder what your readers think?

*934 FM is a nice frequency for those wishing to pay a little extra for peace and quiet, its mobile range looks promising and it will operate on 12 volts! (see page 61). The other points you have slightly wrong are advantages 4 and 6. A 934 MHz transceiver is far more delicate than 27, it would be inadvisable to attempt building a set without a very good technical knowledge. Antennas will not be directional only and will probably have to be matched units sold with an individual transceiver. But you are right, it will catch on.*

ED

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# Readers Write

Dear Sir,

I had my rig stolen from my car the other night. Hard luck you might say, you should have been more careful. That could be true but this month alone there have been 35 rigs taken from vehicles in the Plymouth area and X number of aerials and speakers. My rig has been reported to the police as stolen though I don't hold out much hope of seeing it again.

There is obviously a growing trade in stolen rigs. I hope that this letter may warn others and make them more aware of the importance of securing their vehicle.

Yours,

MR. S. HORTON

P.S. Stolen Rig: Sears Road Talker 40.  
No. B73641 lo3769.

Dear CB Radio,

As a Red Cross worker I welcome the introduction of legal CB Radio for it will allow me to make available to any operators within reach first aid and emergency monitors for which I have been trained.

What worries me greatly is communication, I do not wish to spend valuable life saving seconds trying to decode some jargoned place name. I need to know where I am needed and what to expect.

I appreciate CB is fun. I do not wish to spoil such for that type of hobbyist. However I hope that Channel 9 will be kept for "Queen's/English" where matters of public need can be clearly understood by all.

Clarity can help save a life, jargon may lose one.

Yours faithfully,

BRIAN JEFFERSON  
British Red Cross Society  
Worker/Instructor

*I think what you ask goes without saying, or at least should. Especially after our series Friendly Advice for Emergency Monitors.*

ED

Dear Ed,

I was reading CB RADIO mag (Readers Letters) and it appears that it is the same all over. WHAT? That most of the breakers are Appliance Operators, as the only channel they use is 19 truckers channel (which it has been for years in the USA and others, for those who think this is a total new idea). Experiencing it, channel 19 and four either side of it are the only ones used. What happened to the rest. There are 40 channels on the basic rig, all the rest have just crackling on. Can we have something different please.

And just a few words on the FM system. Not only has it got less interference and more range per watt output (on more interference making amplifier). Thus longer-range for interference free modulation. See the Home Office is not so daft as you think, so let's have the best and have the EEC come in line with us instead of the other way round.

M. TOLLET (HOUND DOG)  
OXFORD

I have been a breaker now for about six months when the inevitable happened and I got stopped at my works 20 the "Birdcage". Well they (HM Customs and Excise, Buzby and Home Office) took my rig and several others into custody. Yes I was sick but I am not looking for sympathy just 27 meg AM to be legalised NOW. The whole point of this letter is to let them and all the other officials know that as soon as I have enough Green stamps I will be on channel again and fighting for the freedom of the airways.

It seems a shame that the Home Office find it necessary to waste the time of valuable Customs Officers who are surely better employed trying to obtain illegally imported drugs which can potentially kill people instead of having to remove rigs, which invariably help people!

10-10 till we do it again.

SHAGGYDOG DOWN AND GONE

## NORTH HERTS CB CENTRE

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Are pleased to announce the launch of the Brand New all British 934 MHz UHF CB. These rigs will shortly be available from the Sole Distributor N.H.CB.C. and will of course conform to British Specification.

Registered dealers who are interested in becoming stockist of this exciting new product, should write to Mick Eldred at address above for further details.



REFTEC 934 Rigs will be made to an extremely high Technical Specification and it is hoped will out perform any existing A.M. equipment.

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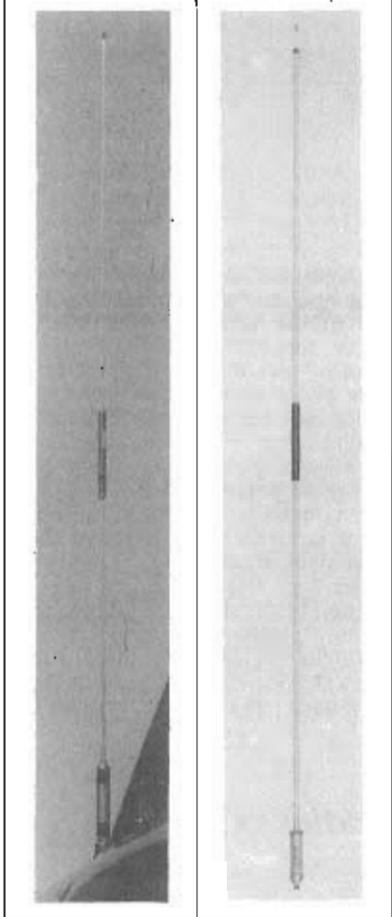


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# NEWS REVIEW



## More what the papers say!

This month's coverage of CB news seems to feature the usual subjects that crop up each month - interference, stolen sets, seized sets and more recently riots. However, on the plus side, there is just as much coverage on charity events, searches for lost children and emergency help. Since this is the 'silly season' for newspapers, there has been a lot of CB stories in the absence of 'serious' or international news. However the papers have a knack of picking the stories that put CBers in a bad light and neglecting some happier news.

However interference seems to be posing a serious problem in some areas and several officials have said that interference complaints have at least doubled. Many of the offenders seem to be using large amounts of power at any time of the day, so it is not surprising the number of complaints have increased.

On the benefit side it is heartening to see the pleasure that disabled people are getting from CB and the feeling of extra security that they gain. Being disabled can be a lonely life and CB provides many 'instant' friends. However from some of the articles carried it brings some unwanted visitors as well.

SS

## Manchester Evening News

### CB Chatterbox Risks Lives

Post Office officials are working overtime in an attempt to locate a breaker who is blocking the main emergency channel for the Greater Manchester Area fire service. At one point the

## CB chatterbox put lives at risk

A MYSTERY Citizens Band radio chatterbox could be putting lives at risk.

For she has been blocking a city's emergency fire calls for three months.

The warning came last night as Post Office engineers tried to pinpoint the woman, whose latest conversation stopped Greater Manchester's Fire Service from using its main emergency channel for eleven minutes.

Fire chiefs are so intent on tracking down the culprit that they are taping her nightly

oh!t-chat—usually about animals.

A Fire Brigade spokesman said: "She once blocked us for half-an-hour."

He added: "We have to find other frequencies and those extra minutes could lose lives."

The emergency channel can also be used to send urgent messages about air disasters and train crashes.

emergency frequency was unusable for half an hour and a recent taped conversation lasted for 11 minutes. The lady breaker, thought to be in her thirties, cannot be identified and seems to talk mainly about animals. Officials believe that the set could be faulty since the harmonics uncontrolled signal is spread-over several frequencies which could affect other emergency services.

The authorities also think her equipment is large and sophisticated as the signal could be coming from Lancashire, Cheshire or Derbyshire. The problem has been increasing over the last three months. Assistant divisional officer of the Fire Service, Mr Traves, said "it could mean us having to use other frequencies and those extra minutes could lose lives."

## Middlesex Gazette

### Skating 53 miles for charity

Hillingdon Citizens Band Club had only one casualty when a group of members roller skated from Yiewsley to Brighton. A dozen breakers from the club took part in the sponsored event to raise money for sending two handicapped people to the Disabled Olympic Games and for video equipment for a local home for mentally handicapped children. Eleven of the breakers completed the course but the twelfth needed hospital treatment for a badly sprained ankle.

Brighton CB Club had a welcoming disco for the skating breakers and they were all back on their feet to dance.

"Members don't know yet how much the roller skate event raised but they are already planning a fancy dress disco in aid of Help A London Child".

## The Times

### Euro MP criticises proposed British CB

"Fourteen manufacturers have been awarded licences by the Home Office to test and develop Citizens Band radio equipment for sale in the United Kingdom this autumn," The Times tells us.

The Government originally intended CB in Britain to stimulate British industry

## Coma girl radio plea

**CITIZEN'S BAND fans broadcast an SOS last night to help a beautiful British dancer lying in a coma in an Italian hospital.**

**They were appealing for money to bring Vanessa Willetts (23), back to Britain.**

**Vanessa, a former Vogue model and beauty queen, has been in a hospital near Florence since she was hit by a motorcycle 12 days ago.**

**The CB enthusiasts have already helped locate a neurosurgeon to advise her family, now they want £500 to bring Vanessa home.**

**Her parents, Sydney and Beryl Willetts are at her bedside.**

and technological development but, says Mr Alasdair Hutton (European MP for the South of Scotland), the Government's decision means that manufacturers cannot take advantage of the entire European market. Mr Hutton has raised the problem with the European Commission in Brussels.

The Commission has already warned the Government of the danger of creating technical barriers to trade. Moreover British users would be unable to use their sets anywhere in Europe. The Commission has confirmed that the British move might be illegal if they put their plans in practice.

The Times also reports that the opportunities for industry have also been reduced as manufacturers turn to the Far East to advise and complete sets.

Although conforming to Government specifications many sets will be imported as finished units and Binatone, one of the holders of the test and development licences, intend to import direct from Japan.

## The Guardian

### CB - The Hitchhikers Guide

Patricia Tudor reports on a new development for CB as a travel organiser for hitchhikers. Thumbers are finding that cars with CB can arrange further lifts for them and in some cases plan the whole journey ahead of them.

Hitchhiker Klaus Overzee found that the journey from the Lake District to London now only takes four hours. He starts his journey at a service station and negotiates a lift with a CBer who arranges the next leg of the journey. The next breaker collects the hitchhiker at an agreed point and Klaus is on the next stage of his journey. The favour can sometimes be returned, though, as a driver who needed directions in London urgently collected a hitcher from another CBer who took him straight to his destination.

Ms Tudor wonders if truck drivers will no longer need to pick up hikers for company as they will have CB to while away the long journey.

## Sunday People

### Bless You, Smokey Bears

An unusual and novel item of news from the Sunday People. A vicar in Preston, the Reverend Tony Rimmer, 'has his ears on' - on his high powered motorbike. 'Flying Priest' uses his CB to keep in touch in his parish and to hear of emergency calls for the local fire brigade (of which he is chaplain). Tony is an industrial chaplain and travels around factories and shops.

"I know I am breaking the law but this device can do a lot of good. I thought of being 'Bent Halo' but the local CB club wanted something more formal," said Reverend Rimmer.

## Daily Express

### Legalise CB now or lose out

The motoring correspondent of this paper states that "a runaway boom in sales of illegal Citizens Band radios is developing as the Home Office moves with extraordinary slowness towards working out a licensing system and making the system legal", and likens the situation to Australia where 27MHz AM had to be legalised through the pressure of illegal users.

He again echoes the fear that when legalisation does happen there will be no British manufacturer ready to meet the demand and that Japanese or the Far East will step in and swamp the market place. People are fed up waiting for a decision and fed up that the Government are stalling, so they are going ahead and buying illegal sets. One shop in the West Country is reported as selling 15 sets in 20 minutes and the trade is estimated to have a turnover of £1m a week.

The article goes on to say that breakers are upset at allegations of CB use during riots in our cities which, they say, is giving an additional excuse for delay. A

breaker is quoted as saying: "The situation is an absolute pig's ear."

This was a very fair article which didn't rely on 'Rubber Duck' headlines to grab the attention of the reader. The writer was obviously sympathetic to CB and presented the problems of both breaker and manufacturers.

## The Sun

### Sadness and joy for disabled breaker

Seventeen year old breaker Janine Burdaky unfortunately had her leg amputated because of a bone tumour. Inevitably she became very depressed and Janine was reluctant to leave the house or meet people.

Her confidence came back as she used CB as her chats gave her the opportunity to get to know people. Her set had been given to her by local breakers and such was its success that she started seeing her boyfriend again.

However a local person has reported Janine to the authorities and the police and Post office have been forced to act. They visited her home and told her she faces prosecution and she has been forced to get rid of the set. Janine was very upset that someone was small-minded enough to inform on her and she says she would lose hundreds of friends.

Janine's disappointment may be short-lived as the National Citizens Band Association will be buying her a legal rig when it is available. Keith Townsend of the association said that they were appalled that a girl in her position should be prosecuted.

Obviously the authorities have a job to do and are forced to act when a complaint is received but this is the type of case when a little mercy might be shown.

## Western Daily Press

### Disabled monitor has set confiscated

Mr Con Kenneally, wheelchair bound breaker from Cheltenham, has had his rig confiscated by the Home Office. Mr Kenneally has been confined to a wheelchair after an accident 25 years ago and became interested in CB at the end of last year. Since then he has run an emergency monitoring service from his home, dealing with distress calls and traffic information. Mr Kenneally has been in regular contact with the police and emergency services since starting his service.

"On many occasions vital minutes have been saved in the time it has taken to get to a crash where people have been injured." Despite having his link with the outside world confiscated 'Bionic' is determined to get a new rig to replace the £300 worth of equipment taken.

The Post Office declined to comment on his specific case.

## East Anglian Daily Times

### CB appeal for dancer in coma

Breakers are broadcasting a nationwide appeal for a 23 year old dancer in a coma in an Italian hospital.

Vanessa Willetts was injured in a motorcycle accident and has been unconscious ever since. Doctors in Italy have taken Vanessa off a life support machine and her family are anxious to bring her back to England for further treatment. £500 is needed and CBers are appealing for funds to help the family. A neurosurgeon's opinion on her condition is also needed.

## Skating 53 miles for charity



IT'S no joke roller skating all the way from Viewsey to Brighton — and one man sprained his ankle badly when a dozen members of the Hillingdon Citizens' Band Club tackled the distance.

The sponsored event was to raise money to send two handicapped people from Colham Green Adult Training Centre, Hillingdon, to the September Olympic Games for the handicapped in Lowestoft and to help buy a video recorder for Moorcroft School for Mentally Handicapped Children, Hillingdon.

Mrs Maria Dillon, secretary of Hillingdon CB Club, said: "They all managed to get to Brighton except for one person who sprained his ankle and had to have hospital treatment later, but he's all right now."

Mrs Dillon added that the skaters couldn't have been all that tired after the 53-mile marathon because they were all back on their feet again dancing to music in a disco held by Brighton's CB Club.

The Hillingdon club, formed last October as a social club for Citizens' Band Radio enthusiasts, is keen on

fund-raising for charity.

Members don't know how much the roller skate event raised yet, but they are already planning a fancy dress disco at Hillingdon Rovers Football Club, Felling Lane, Viewsey, on September 5 in aid of the Help a London Child Appeal.

Pictured left to right are: Robert Barnett, Jimmy Johnson, Geoffrey Rees, Michael Lovelidge, Michael Durand, Malcolm Lawrence, Colin Rowe, Ken Dunstan, Paul O'Reilly, with Cathy Everard standing behind the banner.

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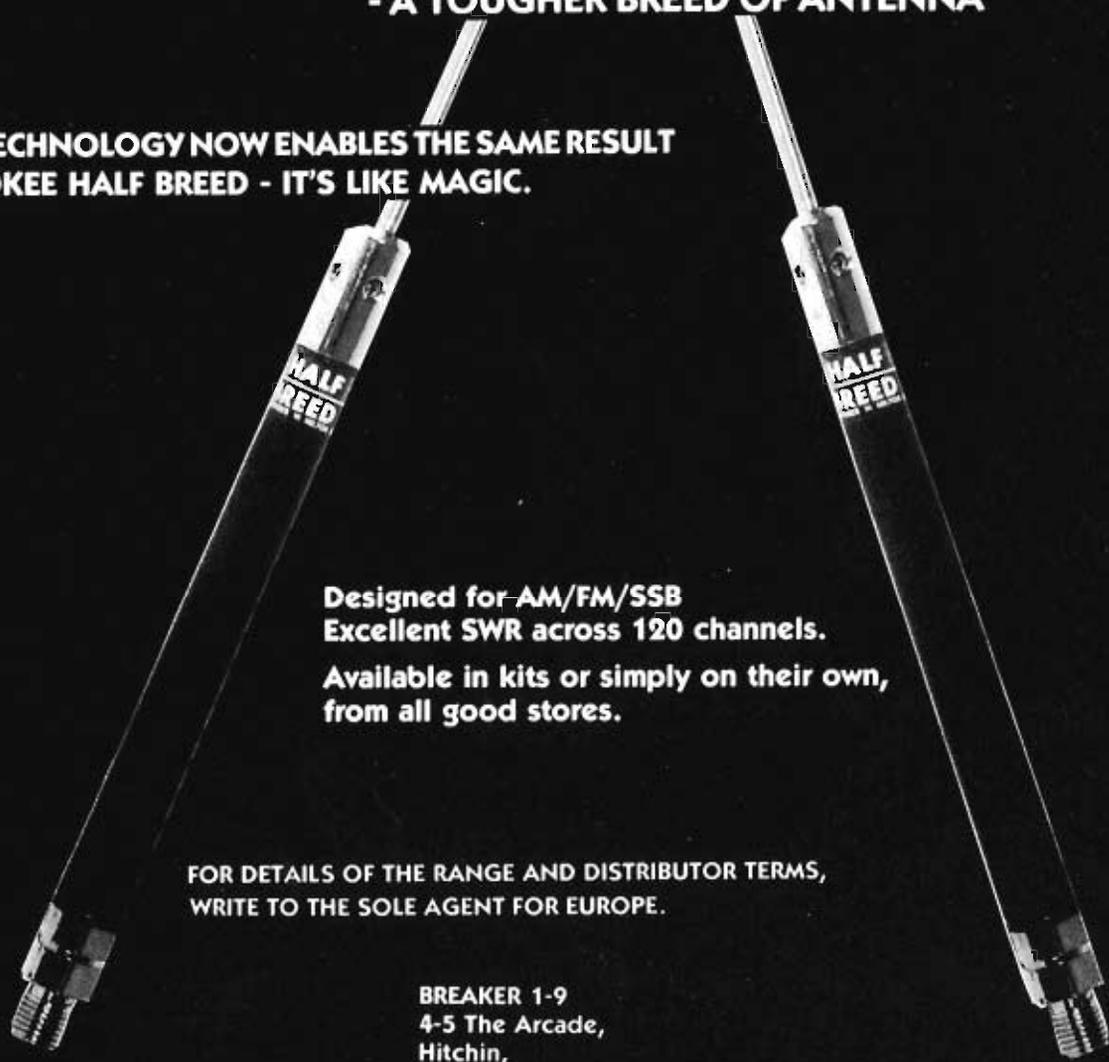


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# B & P DON'T MIX!

That's Breakers and Petrol – read on to find out why not

Just about every breaker must by now be aware of the possible problems with interference from his or her rig. Whether the Home Office claims of everything from heart pacemakers to Jumbo jets are true or not, everyone is familiar with television and hospital bleeper system interference.

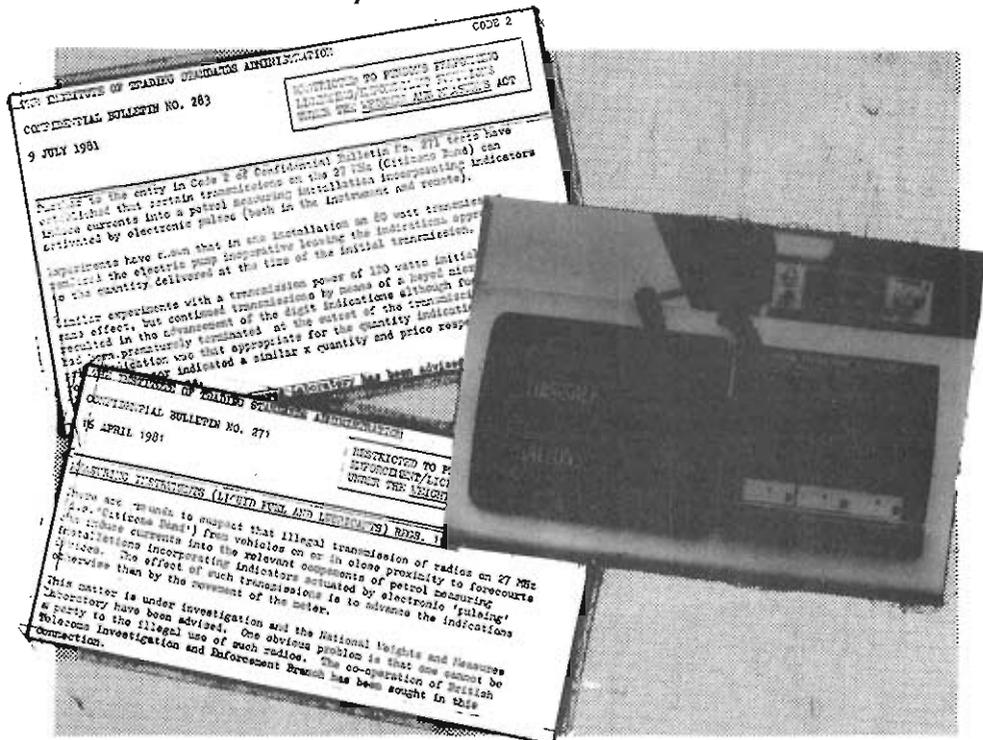
However, one cause for concern that has not caught public interest or attention is the potential interference to electronic monitoring or metering devices which use electronic pulses for measurements. In an ever developing technological world this type of equipment is increasingly being used and cash registers, scanning equipment, car park barriers and petrol pumps all feature such sophisticated circuitry. Because the equipment is so sophisticated, if it is subjected to a sufficiently high field strength – like from a radio transmission – currents can be induced which interfere with the electronic pulses. This can have all sorts of results depending on the type of equipment involved. Although this type of interference has always been a risk it has been regarded as a minor worry since the number of radio users (particularly mobile) has always been relatively small.

## Confidential information

The humble petrol pump is accepted as a part of everyday life and the average car owner doesn't consider it until it doesn't work or the garage is closed. This attitude extends to breakers too, who are on the whole members of the car owning public. This view does the petrol pump less than justice as it is a complicated piece of engineering and modern pumps include complex electronic circuitry for measuring and display.

As the number of breakers has grown so has the number of interference complaints over a wide range of everyday equipment. During the past several months there have been indications that petrol pumps can be susceptible to quite severe interference from very close radio transmissions and the evidence suggests that these are caused by CB.

This was first brought to our attention by copies of confidential memos from the Institute of Trading Standards Administrations which were sent to our office. These memos state that tests have established that CB transmissions can cause interference to the indicators in pumps resulting in false readings on the display unit. Since this was the first we had heard of this problem we did some further research.



Firstly we spoke to garage owners in our area who agreed that there was a problem of pumps behaving erratically and that their enquiries showed it happened when breakers were parked next to pumps transmitting. The interference was causing various effects to the equipment. The most dramatic involved a breaker trying to pump petrol whilst his wife was transmitting in the car. The pump 'locked' and would not deliver any petrol at all and the indicators showed no petrol or price. However the readout on the cashier's console showed several gallons being pumped and the price of the petrol. The breaker gave up trying and drove off in disgust whilst the cashier took his number and notified the police of the 'theft': The police caught the driver a few miles away, confiscated his rig and only some time later sorted out the difficulty of the absent petrol.

We then went to pump equipment and service companies to check if they had come up against the problem. They had been called out on several cases in response to pump malfunction but had been able to cure the problem. They made the point that, strictly speaking, the pump was at fault since incorrect wiring or inadequate earthing and screening made the pump sensitive to interference and once this was dealt with, the problem disappeared. One company referred to a

case of a garage in Bournemouth situated next to a CB base station. This station regularly used 80 watts and caused complete confusion in the garage. However the service company found that the pump wiring was not screened and led up through the forecourt canopy – acting as a superb aerial!

## Manufacturers concern

Our next step was petrol pump manufacturers. Although we contacted several large British companies, most of them gave a standard answer, saying that it was not a problem and that their pumps were screened against R.F. interference. Only one company, Gilbarco, showed concern and agreed that they had had a few instances reported back to them. Since they were worried and anxious the problem should be understood and presented properly, they invited me to their Electronics Research and Development Laboratory at Basildon to meet the manager of the laboratory.

Dave Foster explained that petrol pumps are manufactured to very high standards. This is not only a matter of company pride but equipment has to meet very stringent requirements to satisfy the Institute of Trading standards and the Weights and Measures Act. Part of these requirements cover screening

from radio interference, as it has always been appreciated that emergency service vehicles, fleet vehicles, radio telephones etc. could cause some interference. As far as Dave Foster is aware other types of equipment (such as those mentioned earlier) may not have to conform to such strict requirements. Gilbarco equipment surpasses the Weights and Measures specifications and in fact the company were instrumental in drafting the requirements.

Dave emphasized that any piece of electronic equipment will suffer from interference if it is subjected to a sufficiently high field strength and no piece of equipment can be immune.

As Gilbarco had received reports of apparent CB interference they were keen to do tests to confirm this. Dave Foster wrote to the Home Office outlining their problem and requesting either a special test and development licence for 27 MHz AM or, since he is a licensed radio amateur, an extension to his personal licence. The testing would have been done on company premises and under responsible managerial control. They were surprised to get a refusal from the Home Office and the reply suggested that the H.O. did not consider it likely to be a problem and they were surprised that Gilbarco wanted to test to such close parameters. Gilbarco therefore have been unable to make realistic susceptibility tests and are disappointed that their responsible attitude met with so little co-operation.

They have been able to make some theoretical calculations which indicate that under normal circumstances a 4 watt AM rig with the aerial within a metre of the pump should not cause problems and this has been supported in practice. However pump installations with inadequate wiring may be affected and rigs using large amounts of power would cause greater problems. Legal FM CB should not pose a problem (because of the technical characteristics of the modulation).

Gilbarco were also anxious to emphasize that any transmission on a station forecourt was ill advised because of the possibility of the electric current in the set generating a spark in a combustible atmosphere.

Gilbarco feel that although the difficulties are minor it is aggravated by the growing number of breakers, the large amounts of power sometimes used and SSB transmissions. Apart from being a nuisance to the garage and service companies it can also be a problem to the breaker since the pumps will invariably record more petrol or cost than the actual measurement.

The message must surely be - don't transmit on a petrol forecourt. it can be positively dangerous with petrol vapour present and could cost you more money for less petrol, or even a lost rig like the poor breaker mentioned earlier. Although research shows that 4 watts should not cause interference garage owners think that most of their problems are caused by ordinary rigs, so don't risk it. other radio users are already aware of these problems and it is likely that this sort of information will be emphasized with legal CB.

SS



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# Parliamentary Review



## Our regular look at the House

At present no official news has come to light via questions in the House on a possible legal date. We would like to reiterate that no actual legislation need be passed – in short no bill has to go through a first and second reading or be passed by a majority vote. The Home Secretary need only make an announcement to change the legislation that prohibits importation and manufacture of 27MHz equipment, (for the latest news see our intro page).

We would like to think that the Government and more particularly the Home Office have given more information or a larger hint to manufacturers than they have to the General Press or public. Alas we happen to know that information regarding Legal CB has not been freely available to the trade and only the privileged few have had the chance to follow the murky trail of Government U Turns. Companies throughout the world wishing to manufacture for the U.K., have either had to ignore our market or follow closely on the heels of our bureaucracy. Now that the go ahead for manufacture has been given, antenna specification is the manufacturers major concern as tooling up, machinery and production runs need careful planning.

Again we have Sir Patrick Wall to thank for constantly bringing CB to the attention of MPs and for emphasizing the problems of AM breakers. He seems particularly aware of the attitudes of the illegal breakers and they must be equally aware of the support and help he has given them. Judging by his new title someone else must be aware of his capabilities as well!

SS

## Citizens Band Radio

**Mr Best** (Conservative Member for Anglesey) asked the Secretary of State for the Home Department whether citizens band radio was used by rioters and looters during the recent civil disorder; and if he will make a statement.

**Mr Whitelaw** (Secretary of State for the Home Department): Chief officers of police are investigating reports that citizens band radio was used to assist offenders.

**Mr Grylls** (Conservative Member for North-West Surrey) asked the Secretary of State for the Home Department when a starting date for citizens band radio will be announced.

**Mr Whitelaw:** I have nothing to add at this stage to my reply to a question from my hon. Friend, the member of Haltemprice (Sir P. Wall) on 24 June 1981.

**Sir Patrick Wall** (Conservative Member for Haltemprice) asked the Secretary of State for the Home Department if he will give his estimate as to the number of illegal 27 MHz AM citizens band sets now operating in the United Kingdom.

**Mr Whitelaw:** The available information is not sufficient to form a reliable estimate but present indications are that the number of illicit users of 27 MHz AM citizens band equipment is now significantly more than the figure given in the reply to a question by my hon. Friend the Member for Faversham (Mr Moate). – (see Parliamentary Review CB Radio July)

**Sir Patrick Wall** asked the Secretary of State for the Home Department if he will give an estimate as to the length of time before he is in a position to authorise the use of the lower end of the 26 to 28 MHz band for citizens band radio users.

**Mr Whitelaw:** I regret that this is not possible at this stage. My first priority must remain the introduction of a viable legal service in the autumn.

**Sir Patrick Wall** asked the Secretary of State for the Home Department if he will now announce his decision on the proposed derating of citizens band radio aeriels.

**Mr Whitelaw:** This matter is still under review.

**Sir Patrick Wall** asked the Secretary of State for the Home Department if he will announce the date for the introduction of a legal citizens band radio service.

**Mr Whitelaw:** I have nothing to add at this stage to the answer I gave in reply to a question from my hon. Friend on 24 June.

**Sir Patrick Wall** asked the Secretary of State for the Home Department what communications he has received from the European Economic Community or interested parties in the European Economic Community on the subject of citizens band radio.

**Mr Whitelaw:** The European Commission has received a complaint alleging that our plans for introducing a legal citizens band service constitutes a barrier to trade under the Treaty of Rome, and have asked for our comments. We have also been asked to take part in a survey of practices within the member States of the Community carried out by a firm of consultants on behalf of the Commission. At an earlier stage, the European

Citizens Band Federation, whose membership I understand to extend beyond the Community, urged me to adopt a specification which it favoured and which was well outside that recommended by CEPT.

**Sir Patrick Wall** asked the Secretary of State for the Home Department what is his estimate of the number of illegal citizens band radio sets in use in the United Kingdom at present.

**Mr Whitelaw:** I have nothing to add to the answer I gave to a question from my hon. Friend on 28 July.

**Sir Patrick Wall** asked the Secretary of State for the Home Department what manufacturers will be able to supply frequency synthesis circuits for the legal 27 MHz citizens band service within six months of the legalisation of this service.

**Mr Whitelaw:** We understand that several companies plan to have available in quantity CB sets conforming to the legal specification in the autumn.

**Sir Patrick Wall** asked the Secretary of State for the Home Department in view of the fact that following the announcement that United Kingdom citizens band radio was to use 27MHz many importers have bought 27MHz antennae for sale in the United Kingdom which are to be illegal under his proposed regulations, if he will reconsider his proposals for vehicle antennae since interference from high-gain antennae does not involve mobile stations.

**Mr Whitelaw:** I have the question of aeriels for CB equipment under review, and hope to announce my decision shortly.

**Sir Patrick Wall** asked the Secretary of State for the Home Department if he is satisfied that the 27MHz sets in illegal use at present can be easily converted to the new legal FM frequency.

**Mr Whitelaw:** My responsibility is only to ensure that proper specifications for equipment are made for the protection of other users of radio.



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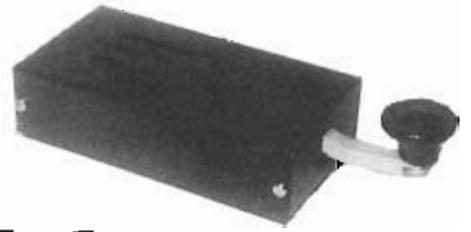
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# CB Radio Project Kits



## Featured this month – Morse Practice Key and SWR Wattmeter

Although we have already covered an SWR meter a few months ago, this kit contains an SWR and a Wattmeter which indicates the transmitter power output. The morse practice key is ideal for anyone studying for the Amateur Radio examination or keen to brush up their morse.

Unfortunately, we have run into problems over the Walkie Talkie kits featured two months ago. These proved to be extremely popular and demand has far outstripped supply. We have despatched as many orders as we can and those whose orders have been filled will have received them by now. We will be returning money to those people that sadly we cannot supply. We apologise for the disappointment caused by this but the amount of orders took us completely by surprise unfortunately our supplier is unable to obtain any more of this item. The other kits offered are still available including the two featured this month.



### KT 417 SWR and Wattmeter

Power: 0-20w, 0-200w, 0-2000w  
 Impedance: 52 ohm  
 Frequency range 1.5-30MHz  
 Sockets: SO 239  
 Accuracy: 0-20w, 0-200w 5%,  
 0-2000w 10%

### Description

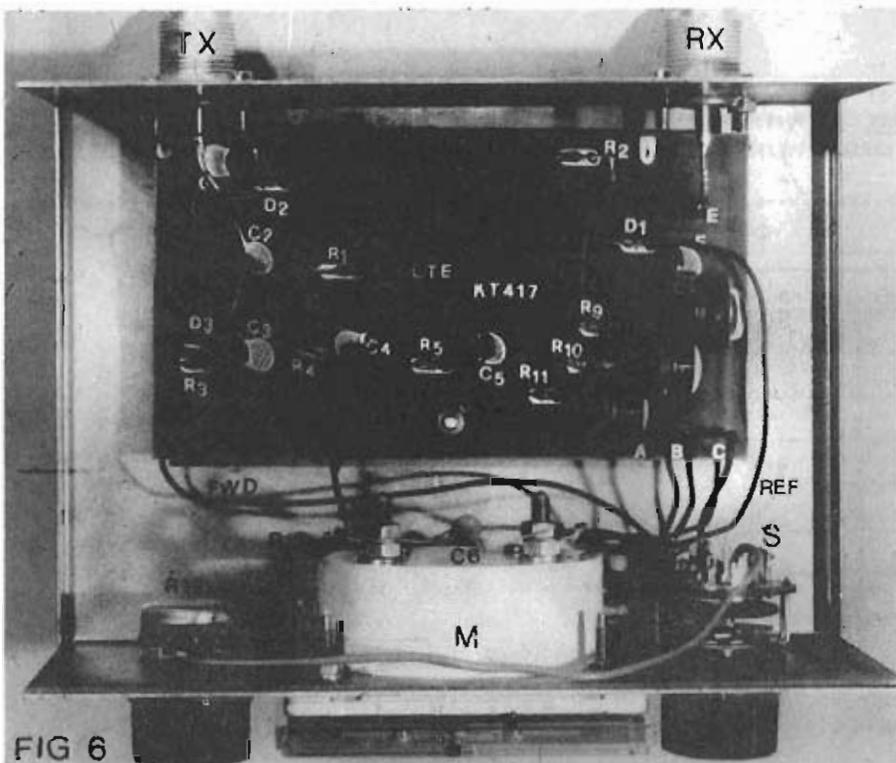
The KT417 is an SWR meter combined with a high power wattmeter that will indicate SWR and transmitter power output in three ranges up to 2000w.

The circuit uses the efficient 'strip line' method. Switches allow measurement of antenna 'standing waves', that is power produced by the transmitter but not radiated by the antenna.

Switching to the wattmeter ranges will provide a direct reading of transmitter power of up to 2000 watts. Once properly set up, the accuracy of indicated power remains constant from 1.6 to 30 MHz due to a linear detection circuit.

### Assembly

At all stages refer to fig 6 for details.



## List of components

2	R1, R2	100 ohm resistor
1	R3	15 ohm resistor
1	R4	4.7K ohm resistor
1	R5	15K ohm resistor
1	R6	470K ohm trimmer
1	R7	220K ohm trimmer
1	R8	22K ohm trimmer
1	R9	120 ohm resistor
1	R10	1.2K ohm resistor
1	R11	220K ohm resistor
1	R12	10K ohm potentiometer
1	R13	22 ohm resistor
4	C1, C4, C6, C7	1000 pF ceramic capacitors
1	C2	4.7 pF capacitor
1	C3	33 pF capacitor
1	C5	4.7K pF capacitor
2	D1, D2	AA 119 or equivalent diodes
1	D3	OA 95 or equivalent diode
1	M	100 uA Fs meter
1	S	Two-way 6 pole switch
2		SO 239 sockets
2		Knobs
1	pic	Printed circuit board
1		Front panel
1		Metal case
4		3x10 screws and nuts
1		3 x 16 screw and nut
3		Small solder tags
		Large solder tags
1	Mtr	Connecting wire
5		Small pic terminals
1		Large terminal
6-7	c.m.	Silver wire 1.5 mm
1		Length of solder
4		Felt feet

- Position and carefully solder the terminal tags to the p.c board points marked A, B, C.
- Solder a length of connecting wire into the p.c board hole marked F.
- Solder a length of connecting wire into the p.c board hole marked G.
- Solder a length of connecting wire into the p.c board holes marked F and G.
- Solder half of the silver wire into hole marked D, the other half into the hole marked E.
- Solder in the other components according to the components list referring to fig B.

## Note

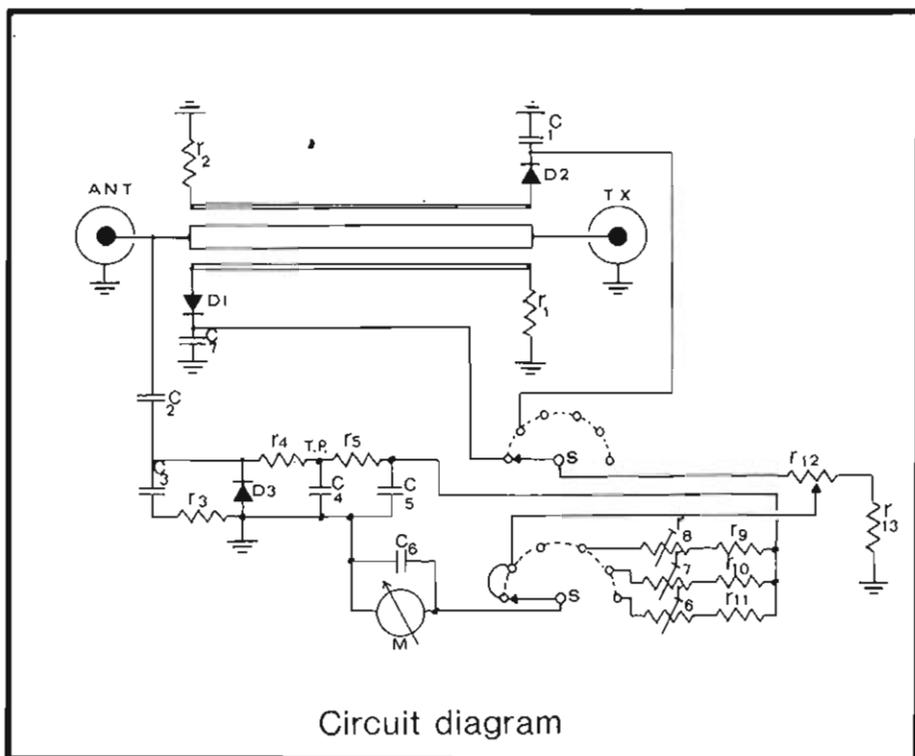
Use a sharp screw-driver to scrape off any green lacquer from any of the soldering points on the pic board before soldering.

Connections to the switch:

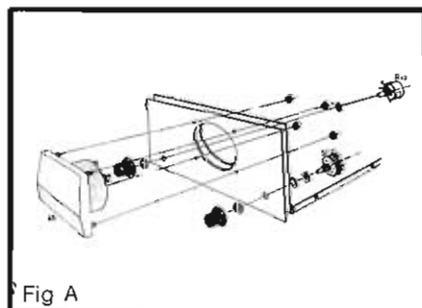
- A : 2000 watt range
- B : 200 watt range
- C : 20 watt range
- D : to the TX socket
- E : to the ANT socket
- F : SWR REF
- G : SWR FWD

## Mechanical set up

- Before fitting the p.c board into the case, solder two solder tags onto the position marked and bend them upwards, ready for the SO 239 screws and nuts. See Fig D.
- Fit the components to the case as in Fig A.
- Connect the wires from the pic board to the range switch as in Fig B.
- Connect the wire from the switch across p.c board to the meter. Fit C6 across the meter terminals.
- Wire up the potentiometer and fit R13.



- Fit the SO 239 sockets, inserting the lower screws through the pic board tags (see Fig D).
- Press the transmit button and adjust the KT417 trimmers until both wattmeters read the same for all of the ranges. R8 adjusts the 20 watt range, R7 adjusts the 200 watt range and R6 adjusts the 2000 watt range.
- Bend over the silver wire and solder to the centre terminal on the SO 239 sockets.



## Note

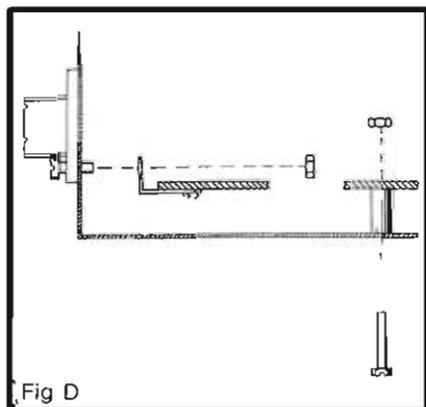
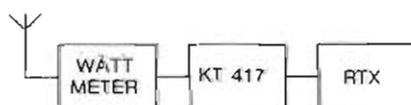
Route the connecting wires as in Fig B, i.e. don't twist them together or route them under the p.c board.

## Testing and setting up

Carefully inspect all joints for soundness and check the wiring for any mistakes BEFORE connecting a rig.

The SWR meter doesn't need any tuning, and is ready to work but the wattmeter needs careful adjustment to produce accurate readings. There are two methods for doing this. They are as follows:.

- Tuning by comparison, using another accurate wattmeter in line as in the diagram.



## Indirect tuning

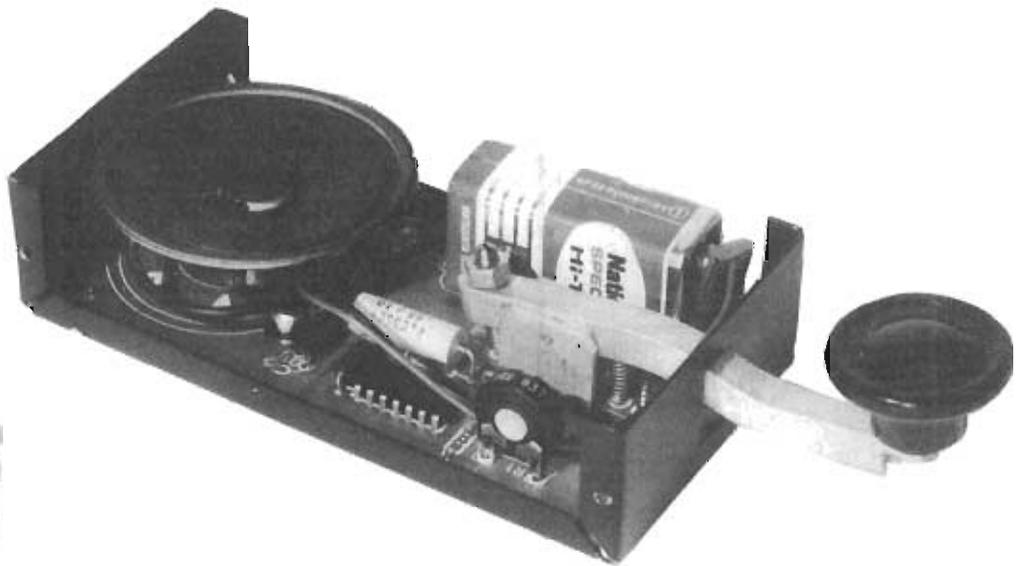
Apply a d.c. voltage to the T.P.(test point) on the p.c. board and adjust the trimmers for the same readings as this chart:

Switch Range	Volt applied to the T.P.	Power Reading	Trimmers to Regulate
2000W	22V	500	R5
2000W	14V	200	R6
200W	9.5V	100	R6
200W	13.5V	200	R7
200W	9.2	100	R7
200W	6.4	50	R7
20W	3.4	20	R8
20W	2.25	10	R8
20W	1.6	5	R8

NOTE: The voltage applied should be measured with a reliable instrument (for instance an electronic voltmeter).

# CB Radio Project Kits

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## KT 311 Morse Practice Key

Voltage: 9v (PP3 battery)  
Frequency range: 400-1100 Hz adjustable  
Battery consumption 80mA

### Description

The KT311 kit is a morse code key with an integrated circuit oscillator, transmission amplifier and speaker all enclosed in a metal case. The audio frequency range can be varied by adjusting the variable resistor R1. With a little modification the key can be connected to the C.W. socket on deluxe rigs to give a morse transmission facility.

### Assembly

First check the contents against the components list to make sure everything is there.

Assemble the mechanical parts as in Fig 2. Leave the plastic knob off until the kit is fully assembled as the key lever has to pass through a hole in the case. The loudspeaker is held in place by a couple of spots of glue. The electronic parts are fitted to the printed circuit board as in Fig 3. Be careful not to overheat the delicate bits Q1, D1 and I.C.1.

When the p.c. board is complete it can be fitted into the metal case. Place the insulating card between the p.c. board

### List of components

Amt.	Circuit No.	Description
1	R1	2.2 K ohm variable resistor
2	R2-R3	1 K ohm resistor
1	R4	68 ohm resistor
1	C1	680 nF capacitor
1	D1	5.1v Zener diode
1	I.C.1	Integrated circuit 5n 7400
1	Q1	2N 1613 transistor or equivalent
1	AP	Loudspeaker
1		Printed circuit board
1	P	Plastic knob
1	VN	Screw for knob
1	LV	Key lever
1	SL	Lever support
1	PL	Pivot bar
1	M	Spring
1	VR	Regulating screw
1	CT	Contact screw
1		Metal case
1		Insulating card
10	VF	Self tapping screws
4		Adhesive feet
1		Length of solder

tracks and case before fixing with four self tapping screws. The kit is now finished and only needs a battery and testing.

### Testing

Having connected a battery depress the key so that contact is made between the lever arm and screw CT (see Fig 2), an audible note should be heard. The travel of the arm is adjusted by screw V. When the output frequency has been adjusted by the variable resistor R1 the lid can be fitted and the plastic knob attached.

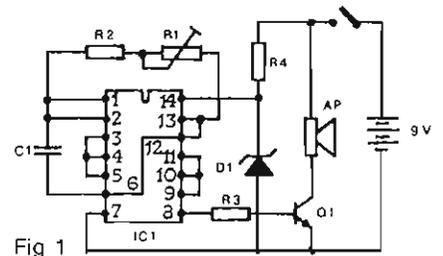


Fig 1

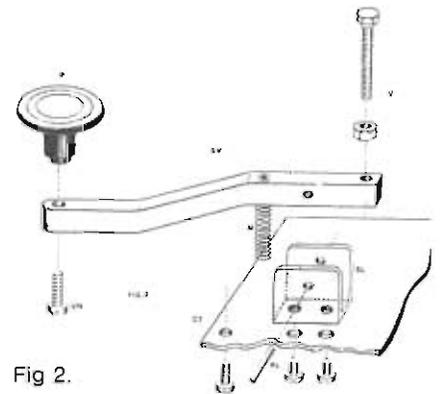


Fig 2.

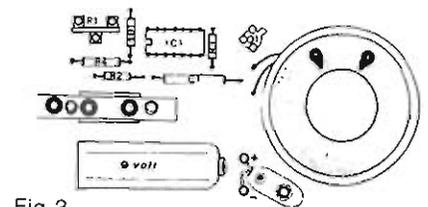


Fig 3.

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# Round Up



## The Big Rig

Independent local radio seems to be beating good old Aunty BBC in capturing the breakers interest. Capital in London has always been pro CB and Plymouth Sound rapidly gained a large audience when they featured CB. Swansea Sound has introduced a "Country Breaker" show on Sunday between 3-6pm.

Presented by Lloyd Coles and a 'breaker on the side', White Knight, the show features country music with a selection of trucking and CB records. The show receives the largest number of record dedication than any other on the station. The programme also features items of news and club gossip.

The programme first started in May and the number of listeners has grown to many thousands, reflecting the number of breakers in the stations listening area which extends from Bridgend to Tenby.

## Wheels of Fire

These photos show the Folkestone breakers entering into the spirit of things at Folkestone carnival this summer. Lead by Blue Falcon, they borrowed a truck and trailer and entered a float in the carnival procession. The occasion didn't pass without incident though as the generator for the lighting caught fire the night before, destroying the generator and damaging the trailer. Such is the power of CB that a new generator was found in time and the breakers worked through the night to rebuild the float in time for the procession.

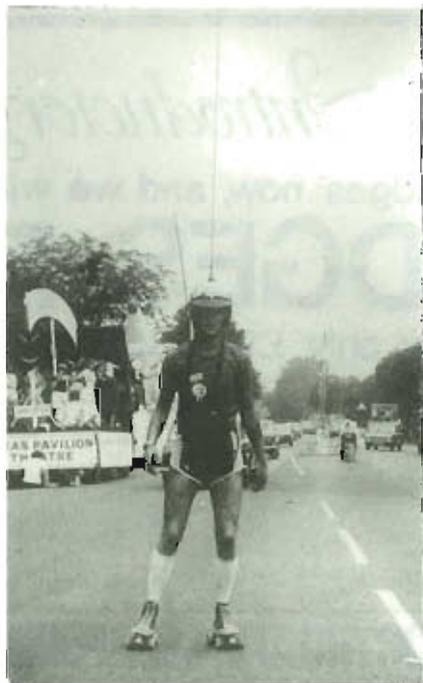


## CB and the Silver Screen

Awaiting the British Premiere in London is an American film called 'Citizens Band'. Made 1977 during the CB boom in the States, the distributors are awaiting legalisation in this country to release the film in London.

Based in an American small community, the film explores the way new technology alters peoples lives. The film is both comic and dramatic and features an emergency rescue service operator and his problems with keeping the airwaves clean and clear. 'Citizens Band' looks at the way CB influences ordinary lives and loves and received good reviews at its screenings in America and European film festivals.

We were invited to the press screening of the show but as we were busy (like producing this magazine) we couldn't go. However we will try to do a proper review when the film is released on general distribution. Non-Londoners do not despair as the film should be shown in the provinces as well.



## Faster than the Sound of Radio Waves . . .

A while ago a young man called Peter came to our office begging for money. After turning out our pockets and finding 72½p, a shirt button, a PL259 and a humbug with fluff stuck to it we eventually realised that he wasn't the usual run of the mill beggar and he wanted sponsoring for his stock car. We gave him something a bit more substantial than 72½p and off he went.

Behold, he has a very smart superstox car with our name on it (well, he needn't think he's getting the money for nothing) and even better - he's winning. A few dents collected on the way as well but then they do go rather fast.

Peter Gould races regularly at Rushden Raceways on Sunday afternoons, so give him a wave as he speeds past and, a word of advice, try not to stand in-his way.

## More Insurance

More information on CB insurance from an insurance company in Essex. Holdfast are offering a scheme through brokers which covers all risks excluding the first ten pounds of each claim. The policy has the usual exclusions including losses from soft vehicles, car aerials etc. and does not cover confiscation by the authorities.

The insurance is quite straight forward with no 'hidden' terms. As the company appreciates the special problems of AM breakers, policyholders are not required to report loss of equipment to the police as is usual in insurance. Equipment up to £300 can be insured for £10.00, £500 for £15.00. Once effective, any additions to equipment during the year are covered free of charge as long as the broker is informed of the addition and the total value does not exceed the sum insured.

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# CB

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## Kids Convoy

Breakers from Addlestone District Breakers Club took a party of children from local childrens homes to Littlehampton for the day on Sunday 9th August. The money for the trip was raised through club events and provided funds for 20 children to visit the coast, transported in convoy by the breakers cars.

Nearly a dozen cars left early on Sunday from the Honey Tree Pub, (the clubs meeting place). The pub donated a large picnic for the children and their helpers and had a sausage and chips supper waiting on their return. The organisers also had funds for the things



children like best at the seaside - the funfair and ice-cream!

Congratulations to chairman Secret Sam, his club committee and Lonely Lady for a very worthwhile event - even if I did have to get up at 7am to see them off.

## Home Grown

Up to now most books on CB have been American - interesting but not always very relevant to the situation in Britain. Even British slang and lingo books have had a very heavy American influence with a lot of things that a British CBER wouldn't be heard dead saying.

To redress the balance comes The British CB Book by Peter Chippendale, published by Kona Publications. Easy reading but it contains all the facts in a straightforward, light style that doesn't talk down or patronise. This book would be particularly ideal for a new breaker whether AM or FM (he explains the difference between those, too).

Available from CB dealers at £2.95.



## CB Ban in South Africa?

Britain is not alone in the illegality of CB, from Cape Town South Africa comes news of a possible ban on the use of CB.

Mr. Hennie Smit the Minister of Posts and Telecommunication warned in his Budget speech "that all citizens band users must organise themselves properly on a National basis with a view to putting

their house in order so that active steps can be taken to ensure disciplined behaviour".

Speaking in the Assembly he told Parliament that the Post Office had noted with great concern the "malpractice and irregularities that were taking place on CB frequencies". At present 27MHz American AM equipment is in wide use with some estimated 80,000 CB'ers using it.

He strongly encouraged CB users to enlist in Civil Defence organisations so that their pastime could be used in the National interest in an orderly fashion.

Mr. Smit also announced that a more stringent control would soon be applied to CB and that it was in the best interests of users to depose of any unauthorised equipment.

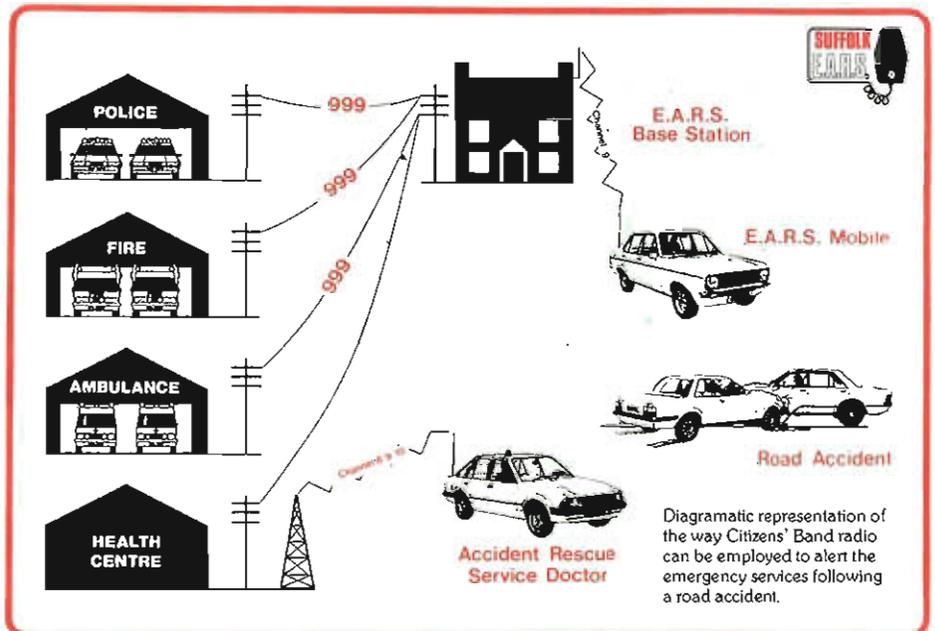
It would appear that he was directly referring to high power use and linear amplifiers operating on American equipment 40 channels 4 watts AM - 12 watts PEP SSB.



Breakers in Suffolk have joined together to form a sophisticated emergency monitoring system covering their area. Called Emergency Action Radio Service or EARS, it is a non-profit making organisation and is manned by volunteers who will be monitoring the 27MHz FM service. In addition to providing round the clock emergency service, the operators are also available to provide traffic information, weather reports and breakdown assistance.

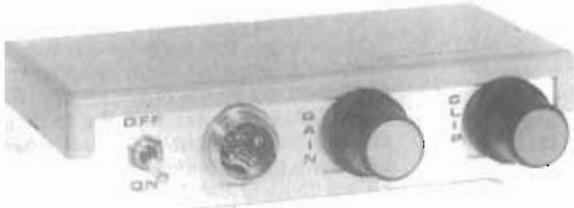
Ordinary motorist FM Breakers will be able to become mobile members of EARS and they will receive basic training on transmitting emergency messages and first aid. The base station in contact with the mobile will then relay the message to the appropriate emergency services, saving valuable time.

Every year tens of thousands are killed and injured on British roads and delays cost lives. All organised monitoring systems can only aid the motorist or base, and the emergency services and reduce the delays caused by an unreliable telephone system. So best of luck to EARS - they deserve our support.



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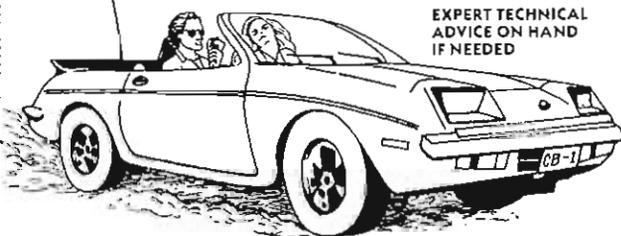


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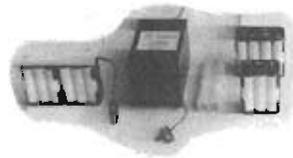
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# CLUB SPOT

## Concrete Canyon Social Club

The club was formed in January 1981 and after just three weeks boasted 200 members, a number which is unfortunately our maximum due to limited space at the barley pop shop where we meet, though guests are always made very welcome.

As a new club we are still feeling our feet, but with a fine bunch of 'Breakers' there are plans for various social events, with a view to raising money for charity. We shall endeavour to help the community in any way we can and continue to pressure the powers that be to give us legal CB sooner rather than later.

I don't wish to be labelled a "Ratchet Jaw" so I'll finish off by saying our "Eye-balls" are held on a Thursday night commencing at 7.45pm in the "Cross Keys" Bolsover, Nr. Chesterfield, Derbys. Please come clean.

Good numbers around the house.  
C-7 (Secretary)

## Glasgow CB Club

Our meetings are held at Barlanark Primary School, 361 Hallhill Road, Glasgow every second Thursday at 7.30pm. Everyone interested in all aspects of Citizens Band Radio is welcome. We turn no-one away (mainly as we know the Buzby!)

IAN PATERSON (Chairman G.C.B.C.)

## Malvern Breakers Association

The M.B.A. was formed recently by CB users in the Malvern Hills area as a focal point for their activities. With the large number of breakers around Malvern it was felt that a local club would be well supported. This view seems to have been upheld as we had 60 members who joined at the initial meeting.

We intend to help our members and CB users in our area to gain maximum benefit and enjoyment from their hobby. At present meetings are held every Wednesday night. Events such as disco's, "foxhunts" and charity fund raising are being planned by the committee for the near future. Liaison with other local CB club is also a feature, and we hope our social diary may be expanded to include competitive events on an inter-club basis. We are also hoping to make contact with radio model clubs and to try to iron out any problems CB may cause to other radio and T.V. users.

We hope our membership will expand and we look forward to welcoming new members. If you live in the Malvern area, please support your local club.

WARLORD (Chairman)  
SNIPER (Treasurer)  
MARTINI (Secretary)

## Freedom Breakers International

We are a new club which has started in the Shoe Tavern 20. All new members will be made welcome. We meet at a local Brown Bottle Shop every Tuesday, anybody interested should contact me at our mailing address. No. 11 June Street, Bootle, Liverpool L20, Merseyside.

RED FOX

## C.B.C.B.C.

We are a new CB club based in Warwick and we are about 50 members strong and we are trying to promote CB radio on 27 MHz AM with the same specifications as laid down by the FCC in America. Our meeting takes place on a Monday evening 8pm till close at the Call Box in Warwick we call ourselves Call Box Citizens Band Club. So if you wish to talk call in on any Monday we will be there. We are situated about 50 yards from Warwick Castle on St. Nicholas Church Street Warwick. See you there.

10-10 for now.  
SILVER BULLET (Chairman)

## The Mob

Our club was formed in early January 81. We are known as the "Mob" - Maidenhead official breakers. The club grew fast and now has 176 members. At the moment we are not accepting any new members but visitors are most welcome. We meet every Thursday at the Prince Albert, King Street, Maidenhead in the club room from 8pm onwards. A newsletter is printed once a month containing news, views etc. The club are organising a calendar for the coming year.

10-10 Super Squire and Squires Squaw.

## North East Derbyshire 10-4 Club

The club was founded in November of last year, and we held our first eyeball on the 13th November 1980. We have since grown to the largest club in the area, with a total membership of 825 breakers, and an average of 45 new members weekly. We are now in our third club 20, due to the increase in numbers. It has been difficult to find a room capable of holding our ever increasing membership. We hold various events, eg. Treasure Hunts, Show Nights, and we have a Disco and Trade stands at every eyeball, which is held on Wednesday nights at 9.00pm at the Shoulder of Mutton, Hardstoft.

So if any good buddies, and good ladies are ever in the Spiretown area, then come along and have an evening at the 10-4 club. You will get a warm welcome, and I'm sure an enjoyable evening.

We have just held a demonstration in Chesterfield in conjunction with our good buddies from Spiretown Breakers Club which allowing for the bad weather, had a good turn out. I'm sure we let the people of Chesterfield know about our views on 27 MHz FM.

So 73's and 88's to all for now.  
MR. FIDDLER (Chairman)  
DIAMOND JILL (Secretary)

## 'G. Force'

Our Club is called 'G. Force' and was started by a few courageous and slightly nutty CB'ers a few weeks ago. We are located in the Worcester Park/Malden 20 and meet every Monday evening at the Malden Manor pub - about 2 minutes from the A3 at New Malden, Surrey.

Our activities at the moment, being almost legal, include various Charity promotions, raffles, information and sound advice for all new Breakers, and, once firmly established disco's, foxhunts and other such lively outdoor pursuits - Oh and of course some practice in the art of concentrated, serious drinking!

Our membership is steadily growing and we will be pleased to welcome all new members. The club is relaxed and friendly so some along next Monday and bring all your friends, family, cats & dogs too.

Judith Styles (Secretary)

## West Somerset Breakers

As our club is well and truly established I thought it was about time we announced it to the world.

The club was formed in January 1981 with twenty members, and is called the West Somerset Breakers. We hold our club nights every Sunday night at the Red Lion Hotel in Minehead. If anyone would like to come down and give us a eyeball please feel free. With Butlins in the town, we do get our fair share of out of town breakers so we can see what is happening around the country. I think there is a real need for a standard breaker channel, one-four seems to be the most popular and one-nine for the super slabs.

If anyone would like to write to us they can do so by addressing your letters to the Red Lion Hotel, Minehead. One of our future plans is to set up an emergency base station on one of the near by hills. This will be also used to give holiday-makers information ie: Local events, road directions and even weather reports. The list here is endless but we are a happy bunch of breakers and are glad to assist anyone who comes to the West Country, so if your passing through Minehead or Exmoor Gate as it's known give us a shout on one-four.

All the Golden Numbers.  
Black Dog (Chairman) Clive Smith

# CB at Peterborough

Unfortunately the winner's photo does not appear, yes she was that good someone walked off with it!

## The Peterborough Festival of Country Music

Governor Lamar Alexander of Tennessee opened the second Peterborough Festival of Country Music on Friday August the 28th to a trumpet fanfair. This didn't only mark the beginning of the music festival, but the opening of a large festival site as well, which included a number of CB trade stands and our own CB Radio Magazine stand. For somebody like myself who was not a country music fan, the sight of thousands of people dressed up as cowboys, indians and the wild west heroes was bewildering. On closer inspection a lot of these cowboys were sporting badges, "You have just eyeballed Buffalo Bill". The staff on the CB Radio stand were certainly heartened to see their first wearer of a badge covered body warmer, at least he couldn't shoot us with his Smith and Western revolver!



The music festival is a four day event sponsored by the Daily Mirror and this years attractions included Frank Ifield, Clodagh Rogers and Lonnie Donegan, (in my opinion the best of them all). As the festival takes place in the middle of a huge field next to a river the whole event takes place under canvas. The music was staged in a 5,000 seater big top and the trade stands were large tents subdivided into units.

After the festival was officially opened on Friday, large crowds of people started heading towards the super tent for the first performance. The trade area, consisting of 12 CB stands and a whole mixture of cowboy outfitters, food stalls, side shows, was free to get into and consequently attracted breakers and others with no particular interest in the concerts. Most CB stall holders reported a fairly busy trade and hoped that Saturday would see the arrival of huge crowds.

Saturday was a disappointment and everybody had a fairly quiet time during

the day, this was mainly due to a large local football derby. However Saturday evening was a completely different story, the crowds arrived, most of the people were in good humour and the stand holders reported a marked increase in business. A large number of the country fraternity were becoming aware of CB and started conversing with the breakers which resulted in some naughty people transmitting on hand held walkie talkie equipment. It was fortunate for those less than discreet people that the local constabulary were particularly friendly and overlooked these law infringements. One bobby was seen showing a youngster how to operate his set.

Sunday was warm and sunny and the crowds became even larger. As a result of the kind weather, (and one too many in a local pub the previous evening), CB Radio Magazine decided to hold a wet T-Shirt competition in aid of the Stoke Manderville Hospital appeal.

If you have never witnessed a wet t-shirt competition before, I suggest you look at the photograph of our four women to get an idea of the entry requirements. Members of the female sex ("chauvinism" I hear you cry, "absolutely" I reply) volunteer to get the area from the neck to the waist soaked with icy water so that a panel of independent judges (men) can award prizes to the contestant with the most outstanding characteristics. The attendant throng were sold buckets of water and each girl took her place on the rostrum and was given a thorough soaking. A large number of valuable prizes were donated by various standholders and we would like to express our thanks to everyone who contributed with money or prizes.



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ON THE ENDEAVOUR PETERBOROUGH  
FRI 28 to MON 31 AUGUST 1981

The three winners were 1) Yorkie aged 19 plus who works for Raymac Display of Hounslow, she won a K.40 microphone and a K.40 antenna. 2) Paddy otherwise known as Caroline who is aged 14 from Leicester. Paddy won 3 L.P.'s and CB Radio Mag t-shirts and sweat shirts. 3) Carol Tupper from the British Caledonian Airways stand (we take more care of you) aged 26 who won a cowboy/girl hat and t-shirts. Due to the generosity of the various stand holders, each of our twelve contestants went away with a prize and a total of £33 was donated to Stoke Manderville. The prizes were presented by Chief Shilo.

Although this was one of the more interesting items on Sundays agenda, the rest of the day went off well and was judged a success by visitors and traders alike.

## Sing a Song Results

Although Monday was definitely colder and windier this didn't deter thousands more people from arriving.

If you have been reading previous issues of CB Radio Magazine you will have heard all about the Sing a Song for CB competition. This competition was organised by CB Radio Magazine in conjunction with CB Trade Fairs and the Peterborough Festival of Country Music.



Roger Humphries

Many entries were received with qualities ranging from down right ridiculous to professional. Each entrant had written a song in a country vein with CB orientated lyrics and the 3 winning entrants performed in the super tent on Monday afternoon as part of the festival programme and filmed for possible use by Anglia Television. All three winners will have their efforts recorded on disc and released for sale in the not too distant future.

1st Place went to a song called: "The Big 10-4" written by John Cooke of West Mercea and performed by a group called Santa Fe.



2nd Place was taken by: "Super Nova" written by Tom Boyd of St. Ives, Cambridgeshire and performed by Roger Humphries and his band.

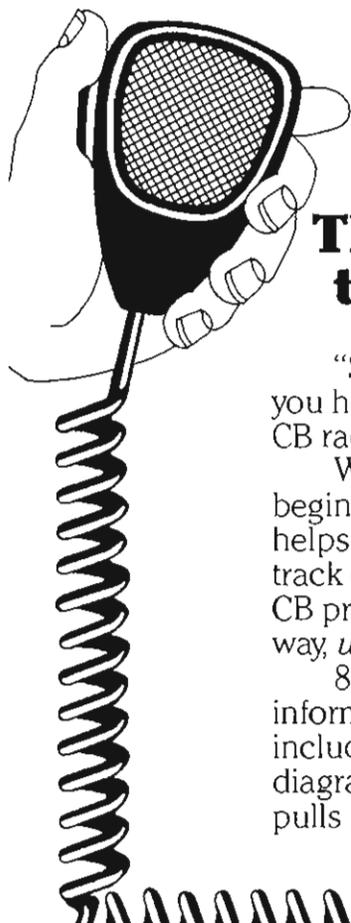
3rd Place went to: CB Aint that Young written by Ian Huntly of Reading, Berks and performed by Santa Fe.

The public response to all three songs was enthusiastic and one of these lucky people could well have a hit record to their credit. Later on Monday afternoon saw a free concert being performed outside the CB Radio Magazine stand by Sean & Hayley, stars of the previous days concert. Once again a collection was made and the proceeds (£21) were donated to the Stoke Manderville Appeal. It transpired afterwards that the brother and sister duo of Sean & Hayley are both breakers belonging to the Whisky Bravo Club, Strawberry Town (Wisbech). Sean and Hayley's handles are Banjo and Southern Comfort respectively.

A feeling of sadness and relief was evident on the closure of the festival, sadness that the event was over because it had generally been a successful four days and relief that at least there would now be a chance to get back to a more routine working day.

CB and Country Music have always been closely related and this relationship was strengthened by this festival. Many of the artists appearing already include CB Songs in their repertoire. Breakers and Country Music fans both had the opportunity to find out more about each others hobby and I'm sure that each persuasion will now have many new participants. This was the second Peterborough Festival of Country Music, I'm sure that the 3rd and consecutive festivals will be even more successful and enjoyable.

PCC.



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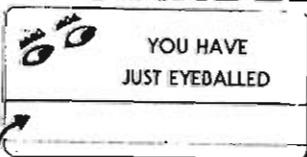
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# THE LAW AND YOU

## A Solicitor's Comments on the Law

No apologies for any information in this article that looks familiar to some of you, as the number of breakers increases at a great rate and new breakers may well be unaware of the legal situation concerning CB. We have asked a friendly solicitor, who has done some CB work and research to comment on the law and its interpretation but it must be remembered that his comments are simply that anyone facing prosecution should consult their own local solicitor for individual advice.

### What can you be charged with

The solicitor emphasises that there is at present very little case law to base any advice on, although the relevant statutes do give some degree of certainty. Statutory provisions can however be made open to differing definitions in the hands of less than unbiased lawyers or judges - depending on which side of the fence one views them from.

*There are four main offences with which an illegal CBer can be charged.*

### Illegal importation

There is no act which specifically covers illegal importation of 27MHz AM equipment. However Section 7 of the Wireless and Telegraphy Act 1967 and Statutory Instrument No. 61 forbids the importation of equipment capable of transmitting on reserved wavelengths without licence. Various Customs and Excise acts make it an offence to import any goods of any description that are or would be subject to an import duty if declared. This renders most of the equipment used in the UK as contraband.

It appears that it is quite legal to import and pay duty on part assembled sets incapable of transmitting. It is legal to sell and to own such incomplete units. For an offence to take place under any of the listed provisions the equipment must be a fully working transmitter.

It is unusual for any charges to be brought into this heading because of the difficulty in proving that the owner or

keeper of the illegal set actually imported the set himself.

### Keeping goods

To obtain a conviction the authorities must prove not only that no duty was paid but also that the owner knew or had strong reason to suspect that the radio was illegally imported and no duty had been paid, and thereby knowingly keeping goods on which no duty had been paid.

The Customs and Excise management Act 1974 S.41 entitles officers to seize such goods from importers and S.139 empowers any officer, constable or member of H.M. Forces to seize or detain anything liable to forfeiture under the Customs and Excise Acts. Actual possession of 27 MHz AM equipment is not an offence unless the possessor is also the importer or has installed the set or transmitted on it.

### Installing Equipment

Installing such equipment is contrary to the Wireless Telegraphy Act 1940 unless a licence for such installation or use has been granted. However it is difficult to prove that the owner of the CB set installed it himself. Where the set is in a house and need only be plugged into a power source in order to operate, a prosecution is possible.

This is one of the charges where the authorities will press for a 'Confession' since obtaining proof is so difficult.

### Using the radio to transmit

Again this is contrary to the Wireless Telegraphy Act 1949. The onus is on the authorities to actually catch the operator broadcasting or to get a 'confession'. If caught broadcasting and a summons follows, a conviction is almost inevitable.

We have heard of quite a few cases where the apprehended CBer has kept his head and has denied ever transmitting and insisted that he did not install the set himself and has escaped with having the set confiscated.

Tap recordings of illegal transmissions are not acceptable in court as evidence although the court can be informed that they exist.

There are several other offences which could be associated with a CB case e.g. it is an offence to listen to unauthorised or unlicensed transmissions. Prosecutions for this are very rare.

CB'ers do not always co-operate if they are stopped and their equipment confiscated! In some cases the police bring charges for obstruction and assault. These are criminal charges which would be dealt with in the usual manner. There are an increasing number of cases of this type usually based on the contention of whether the officials involved identified themselves to the parties concerned.

### Can you be arrested?

There are three categories of 'arrestable' offences.

- Suspicion of importation (S.138 Customs and Excise Act). For this possession is sufficient until the possessor can prove he was not the importer.
- Obstructing or molesting officers in the course of their duty. This would include refusal by a car driver to permit an officer to search his car, or hindering him in the search. Maximum penalty for this is £100 or 2 years imprisonment or both.



- c) General police powers of arrest. These are more restricted than is generally supposed, but in effect are interpreted by the police to mean the right to detain a person until such time as it has been ascertained whether an offence has been committed. This frequently exceeds the statutory powers intended although in practice there is little that can be done to prevent this use of police power and it is seldom worthwhile to bring proceedings for wrongful arrest or detention.

The police can arrest under Section 138 of the 1979 Customs and Excise Management Act any person who has committed any offence for which he is liable to be detained under the Customs and Excise Acts.

### Stop and search

Police powers to stop and search are very wide. The main power is contained in the Customs and Excise Act, which is extended to the police as well. Under Section 163 of the Customs and Excise Management Act 1979 an officer can stop and search any vehicle where there are reasonable grounds for suspecting a vehicle is carrying goods that:

- Charges for any duty which has not been paid, or
- Liable to forfeiture under the Customs and Excise Acts.

The test is therefore does the officer have reasonable grounds for suspecting a CB Radio. If he does, he can stop and search without a warrant.

To enter and search a house the police must have a magistrate warrant. Customs officers are empowered by their 'writ of assistance' (which all active officers have) to enter and inspect premises where there are reasonable grounds to suspect that anything liable to forfeiture is being kept or concealed. If a customs officer wants to enter after dark he must be accompanied by a police officer.

GPO or Home Office officials can also be granted magistrates warrants to enter and search premises. Their powers are limited by the Acts specifically referred to in the warrant.

Power to enter and search premises is strictly a Customs and Excise preserve, unless done under warrant. Police have no indiscriminate powers to enter and search even if they believe them to contain illegally imported goods.

### Who can detain your rig?

Either Police, Customs Officers or Post Office officials can detain a CB radio. Police do not issue receipts though the radio must be entered in column B of the property register on a charge sheet at the station. The Post office do give receipts and Customs Officers serve a notice of seizure which gives the owners rights to claim the goods if they are not liable to forfeiture

As previously stated the Customs and Excise Management Act 1979 empowers the police to seize or detain anything liable to forfeiture under Customs and Excise Acts.

If they do detain goods they must call out the Customs and Excise to hand over the confiscated goods to them unless the goods are to be used in evidence in proceedings brought by the police. They must notify them of any arrest at the earliest convenience. In practice if a Customs and Excise officer can not attend within two hours the police bail him to reappear at a later date. The GPO are invariably called to confirm that the equipment does in fact transmit on 27 MHz AM. (The offence is not using 27 MHz but using a transmitter without a licence.) In practice the police themselves do not prosecute CB'ers (unless for obstruction etc.), any prosecutions are brought by the GPO or Customs and Excise. If the equipment is not in working order there are no offences under the Wireless and Telegraphy Acts. The only possible offence then is importation.

#### O.C.T. CONSUMER NOTICE

Early models of BREMI BREMI Power Supplies imported by O.C.T. in common with other currently imported makes, were designed for the continental market and therefore did not contain the internal protection and three core flux required to meet the British Standard.  
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# DLT Fidelity and CB



## More Eyeballs at 'The Eyeball'



Mayfair is used to exotic cars but the sight of a Lamborghini Espada containing Dave Lee Travis and model Nicky Giles stopped most people in their tracks on Thursday 20th August. Fidelity were demonstrating their new FM rigs and had chosen the Eyeball Restaurant in London as the launch pad.

Dave has always been a keen CB supporter and was eager to use a legal set as he said "It's too risky for a man in my position. I don't operate one, not even secretly. But I'll certainly get one as soon as they are legal."

'Fuzz Face' (Dave's handle) and Nicky used the set to chat to guests in the Eyeball Bistro Club and were operating under Fidelity's Test and Development Certificate, one of the 14 to be issued to manufacturers since the Government's announcement in June. The rig used was the Fidelity CB 1000 FM, the basic set in the Fidelity range which will retail for around £60. The company will also market a more advanced set, the CB 2000 FM and a base station.

Dave posed for photographs with Nicky and chatted away to eaters in the bistro in his own inimitable style. Although he joked around, he hopes that breakers



will not be tempted to be too American. "I hope they will start talking proper English and do away with all these Americanisms. There's nothing worse than someone from Birmingham or Manchester trying to imitate an American accent." Dave's own Manchester accent came over loud and clear.

Fidelity were one of the first major British companies to announce their intention of entering the CB field once legal and expect it to be a major development in the industry. They have been quick to see the potential and have adopted an energetic and enthusiastic attitude and sales policy. Since their intentions have been made known (including through CB Radio) they have been inundated with requests for further information. Since a lot of the general public and retailers will not be clued up on CB they are issuing a sales guide to answer their questions.



Fidelity are expecting to be able to distribute and display sets in shops three to four weeks before the 'Legal Day' and for licences to cost about £12.

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# Clubs Unite

## It could be your only chance to fight!

CB Radio Magazine started with its first issue 'the coveted number one', in May 1980.

At the time it was the first and only British CB Magazine, unestablished, with little readership on an unheard of subject and proudly independent.

Now seventeen months later we are established and leading the field, as such we have noted that not all our readers are ardent 27MHz advocates. Direction for us poses no major problem we will continue to cover AM - FM and SSB operation, because when all is said and done it is all CB!

Direction for clubs or organisations and even individuals can be a problem, many large clubs are now falling apart, or breaking into smaller groups. Some clubs have lost sight of their original aims, be it 'legal AM' or 'a united body designed to aid the breaker'. Instead many clubs have drifted into semi-aimless CB'ers get together, where all too often the only campaigning is to oust the committee.

However successful clubs do exist and their secret is communication and organisation, communication within one club is not enough clubs need to be able to contact and raise enthusiastic support from other local or national clubs.

### The Choice?

The AM versus FM argument can soon be considered on facts not fiction, now if you want a CB there is no choice, it has to be AM.

With legalisation of FM the choice will exist and clubs, groups or individuals will soon be able to decide if AM is what they

### 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 separate publication intending to register every possible CB club, group or organisation.

**FM Clubs** will find it an advantage to enter their name and address, it should prevent confusion between similar named clubs 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 existence. 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 amateurs cast aside as unlicensed pirates, yet more and more we have noticed a tendency 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.

#### BIRDINGTON MOSS BREAKERS

**Voice:** The Castle on the Hill  
Birdington Moss  
Castlehill View  
Birdington  
Every Tuesday 8.30 - 1.30  
**Contact:** Meril Straight  
EvlIn Vaughn Green  
Ridge Castle Road  
Birdington  
**Area:** Shakey Tree Town  
**Break:** 14  
**CLUB:** 17  
**Registered:** AM ACTIVE

#### BROOKFIELD MARSH STOMPERS

**Voice:** The Marsh Inn  
Brookfield Marsh  
Nr Broadlanders  
Every Sunday  
**Contact:** Mike Stalmond  
12 The Larches  
Oakfield Marsh  
Broadlanders  
**Area:** Stompers Green  
**Break:** 14  
**CLUB:** 11  
**Registered:** FM

#### BUS STOP QX QSL

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 group.

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

JOH

# CB Radio Magazine

## NATIONAL CLUB REGISTER

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

FOR OFFICE  
USE ONLY

NAME OF CLUB .....  
VENUE .....  
ADDRESS in full: .....  
Day & Date .....

Contact/Personal  
Address .....  
Phone No .....

Area or County .....  
Area or County Handle .....  
Breaking Channel .....  
Club Channel .....

(see below for choice first)  
Club Registered as: .....  
Club favours: .....  
DX/QSL/QSO/or 1 - 4 - 1 .....  
(Applies only to 100% QSL)

CLUB FAVOURS (either);

FM:	Covers all legal FM
AM:	27MHz Illegal
SSB:	Single Side Band
ALL:	CB illegal and legal

CLUB REGISTERED AS (either);

ACTIVE:	Fighting for AM or SSB
SUPPORT:	Interested in all demos
LEGAL:	Happy with the legal frequencies
PIRATE:	Illegal to the end

I wish to register the above club and details:

My Name Is .....  
Position in club/group etc .....  
Address .....  
.....  
Phone No .....

I understand that this information is personal and not for printing, unless it is the same as above

I enclose the registration fee of £ 1.00p

Cheque or P.O. to British Breaker Productions, Tudor Works, Beaconsfield Road, Hayes, Middlesex, UB4 0FL

Certificates of registration will be despatched with a photo stat 'proof' of your insertion as it will appear, as soon as possible.  
Please allow for the collation time involved and expect to see this early in the New Year.  
If you do wish to receive your Certificate earlier enclose a large S.A.E. with this form.

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

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



FOLD

FOLD ONE

FOLD

PLACE  
STAMP  
HERE

FOLD FOUR

FOLD THREE

**National Club Register.**  
**British Breaker Productions,**  
**Tudor Works,**  
**Beaconsfield Road,**  
**Hayes,**  
**Middlesex,**  
**UB4 OFL.**

OPEN POCKET 'B'

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FOLD TWO

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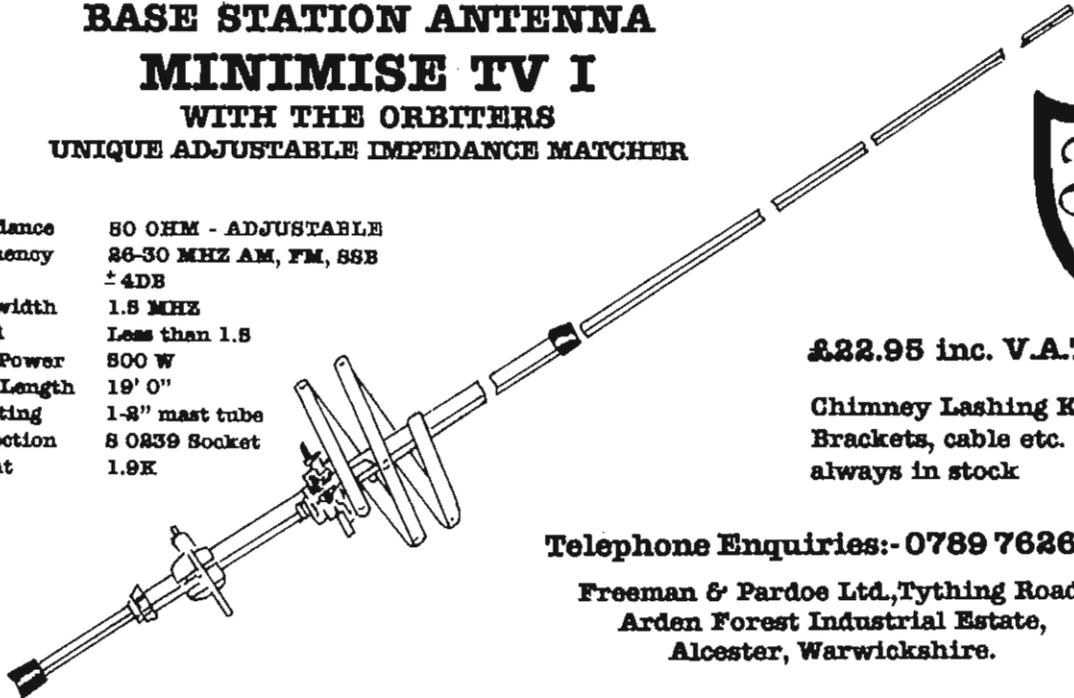


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£9.49 +VAT

£7.50 + VAT COMPLETE

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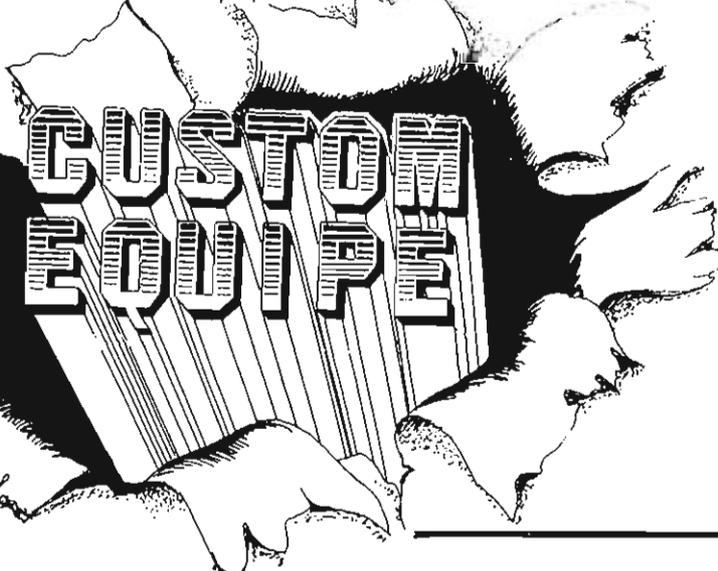
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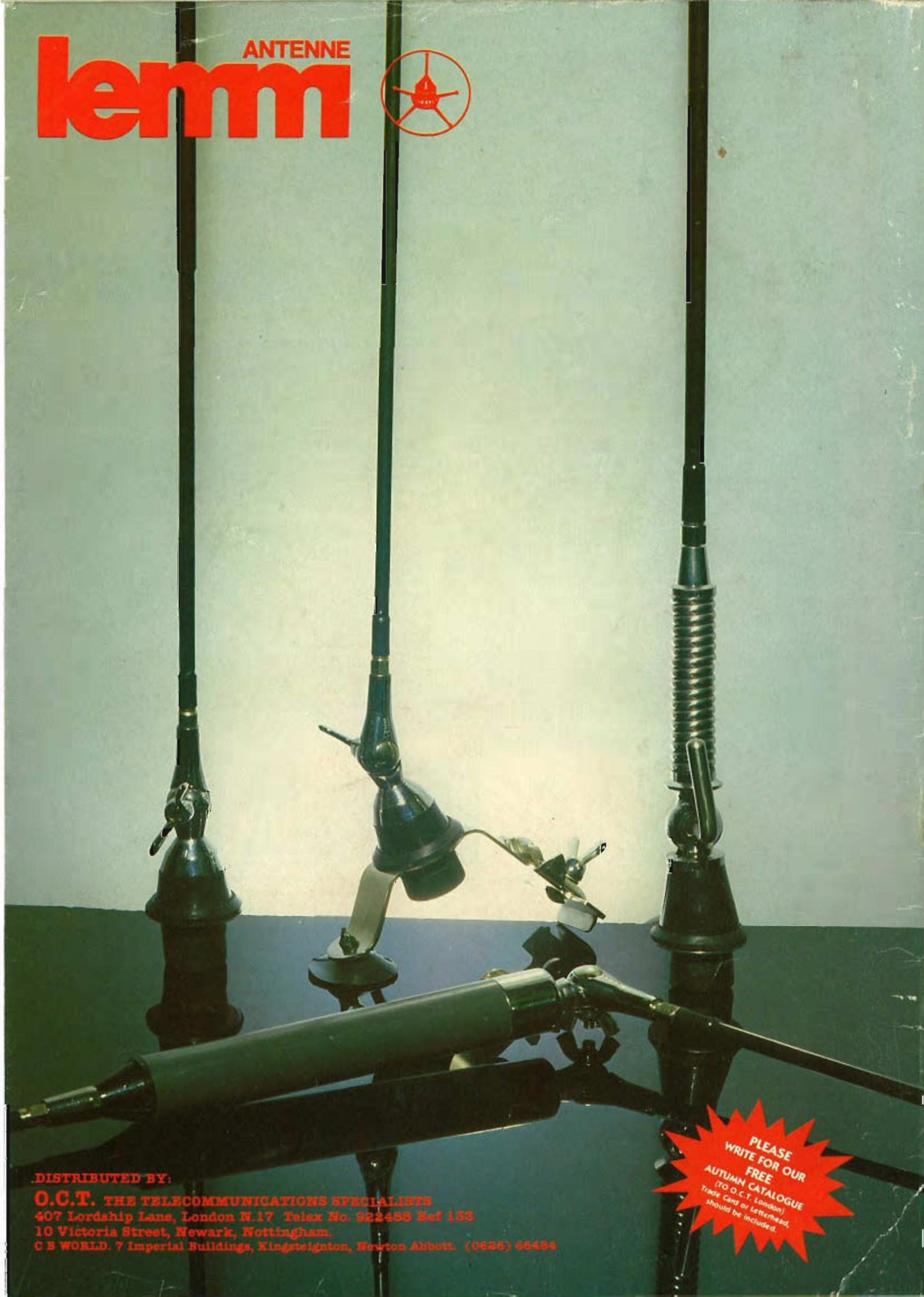
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