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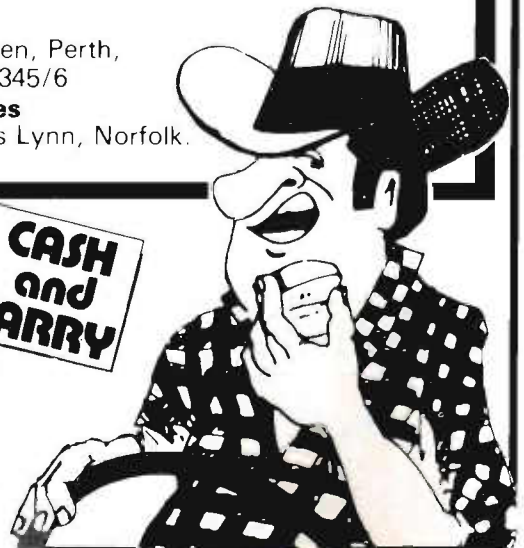
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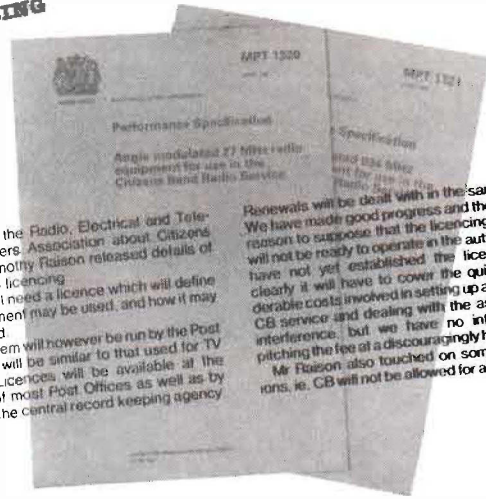
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THIS MONTH'S FRONT COVER

A Fidelity CB 1000 40 channel FM transceiver note the all important CB 27/81 identification mark which will be carried by all new 'Legal Rigs'
Photograph by:
C.P. Downs

British CB

LATEST
ON
LICENCING



Speaking to the Radio, Electrical and Television Retailers Association about Citizens Band, Mr Timothy Reason released details of his intended licensing.

"Users will need a licence which will define what equipment may be used, and how it may be operated."

"The system will however be run by the Post office, and will be similar to that used for TV licences. Licences will be available at the counters of most Post Offices as well as by post from the central record keeping agency."

Renewals will be dealt with in the same way. We have made good progress and there is no reason to suppose that the licensing system will not be ready to operate in the autumn. We have not yet established the licence fee; clearly it will have to cover the quite considerable costs involved in setting up a licensed CB service and dealing with the associated interference, but we have no intention of pitching the fee at a discouragingly high level. Mr Reason also touched on some restrictions, i.e. CB will not be allowed for aircraft use.

Home and Free?

Amid wild rumours of specification changes and even further U turns by our British bureaucracy, the final performance specification dropped onto our doorstep in mid June.

Despite all the rumours, both drafts, as printed in our issue before last, were confirmed. There were, as we reported last month, considerable minor changes but Britain's CB was now a known factor, 27FM and 934FM. The operating frequencies and permitted ERP are listed below:

Permitted effective radiated power, 27 MHz FM.

The output radio frequency power of the equipment is limited to 4W. With the antenna permitted by the conditions of the licence for use with the equipment this provides an effective radiated power of 2W (See note). If an antenna is mounted at a height exceeding 7m the licence will require a reduction in transmitter power of 10dB.

Operating frequencies

The equipment shall provide for transmission and reception only of angle modulated emissions on one or more of the following radio frequency channels:

Channel	MHz	Channel	MHz
1	27.60125	21	27.80125
2	27.61125	22	27.81125
3	27.62125	23	27.82125
4	27.63125	24	27.83125
5	27.64125	25	27.84125
6	27.65125	26	27.85125
7	27.66125	27	27.86125
8	27.67125	28	27.87125
9	27.68125	29	27.88125
10	27.69125	30	27.89125
11	27.70125	31	27.90125
12	27.71125	32	27.91125
13	27.72125	33	27.92125
14	27.73125	34	27.93125
15	27.74125	35	27.94125
16	27.75125	36	27.95125
17	27.76125	37	27.96125
18	27.77125	38	27.97125
19	27.78125	39	27.98125
20	27.79125	40	27.99125

Citizens band radio equipment shall not contain facilities for transmission of radio frequencies other than those listed above, and those contained in MPT 1321.

The licence requires that equipments which have provision for the connection of an external antenna shall not be connected to other than a single element rod or wire

antenna not exceeding 1.5m in overall length.

Permitted Effective Radiated Power, 934 MHz FM

The output radio frequency power of the equipment is limited to 8W for equipment which has terminals for connexion of a separate antenna. With the antenna permitted by the conditions of the licence for use with this equipment this provides a maximum effective radiated power of 25W. (See Note 2).

If an antenna is mounted at a height exceeding 10m the licence will require a reduction in the transmitter power of 10 dB.

To enable the user to accomplish this easily, the equipment manufacturer shall provide as a standard facility on the equipment means by which the transmitter output may be reduced by a minimum of 10 dB.

For equipment with an integral antenna the effective radiated power is limited to 3W.

Operating frequencies

The equipment shall provide for transmission and reception only of angle modulated emissions on one of the following radio frequency channels:

Channel	MHz	Channel	MHz
1	934.025	11	934.525
2	934.075	12	934.575
3	934.125	13	934.575
3	934.125	13	934.625
4	934.175	14	934.675
5	934.225	15	934.725
6	934.275	16	934.775
7	934.325	17	934.825
8	934.375	18	934.875
9	934.425	19	934.925
10	934.475	20	934.975

Citizens band radio equipment shall not contain facilities for transmission of radio frequencies other than those listed above and those contained in MPT 1320. (See Note 3).

For the purposes of testing, single channel equipment may be tested on any one of the approved channels. Multi-channel equipment shall be equipped to operate at the centre, and the upper and lower limits of the frequency range over which channel switching is possible.

Permitted modulation

Only equipment which employs angle modulation and has no facilities for any other form of modulation will meet the

requirements of this specification.

Note 1: The initial channel spacing will be 50 KHz.

Note 2: The licence requires that equipments which have provision for the connection of an external antenna, this antenna shall consist of a maximum of four elements none of which may exceed 17cm in length.

Note 3: If a synthesiser is used 25 kHz channel spacing may be adopted but only the frequencies corresponding to the numbered channels actually used.

Ready, Steady Go

The race to be first into the shops and first with new 27MHz FM transceivers is well and truly on.

Over the last few months we have heard of no less than 15 different companies intending to market legal FM transceivers once the all important legalisation date is announced.

The front cover of this issue carries a photograph of just one of those intended rigs. The most important factor however is the price; people now know that these new sets will not be the expensive, exorbitantly priced equipment everybody originally predicted. On the contrary, they will be relatively cheap, retailing at around £60.

Our technical advisor and writer Fred Judd will be dealing with comparative tests on the new frequency next month. I won't spoil your anticipation but, believe it or not, it looks promising.

A Red Herring

Candidly the only major wool pulling we can see in the Government new FM frequencies is the power-versus-ERP.

Very simply for those who haven't followed Antennas and Transmissions from the start, with a quarter wave dipole the power in should equal the power radiated out (ERP, effective radiated power), which with 4 watts output should be 4 watts ERP. Now, as a 'flanker' by HMG for all the existing breakers that would have totally rejected 2 watts, the government have allowed 4 watts power, but the licence they intend to issue will only make it legal to operate a new 27FM with an antenna of 1.5 m in overall length. By reducing the length of the antenna the quarter wave is no longer there and thus the full 4 watts is not 'radiated'. This, the Government propose, will allow an ERP of 2 watts.

Thus one can see that legal 27FM is in fact 2 watts not 4 watts. Clever, eh!

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Antennas and Transmissions on CB frequencies

by F.C.Judd. FISTC MIOA. Assoc. IPRE. - Part 10

Propagation and Antenna Performance

At the time of writing there seems to be considerable reluctance by the majority to accept the Home Office condition of FM (frequency modulation) only for CB radio although there is little doubt that the AM-SSB users (albeit illegal) and especially those operating with high power, do not seem to understand exactly what FM really means and what advantages or disadvantages this mode of transmission has in practice.

However, before one can accept or reject FM what must be clearly understood are the conditions of propagation that prevail and will continue to prevail on 27MHz. What that means basically, is how far will one be able to communicate on the 27MHz band as of now and in the future and this is a question that applies regardless of the mode of modulation i.e. AM, SSB or FM. For example if you can at present work a station at 10 miles away using 4 watts with AM then you would certainly work that same station with 4 watts and FM and in fact get much clearer signals because reception in FM mode automatically rejects most forms of AM interference and in itself causes less interference to other services. If you are concerned about working DX by skywave propagation to America and other similarly distant places, then forget it. By next year at least the DX will not be there to work except only very

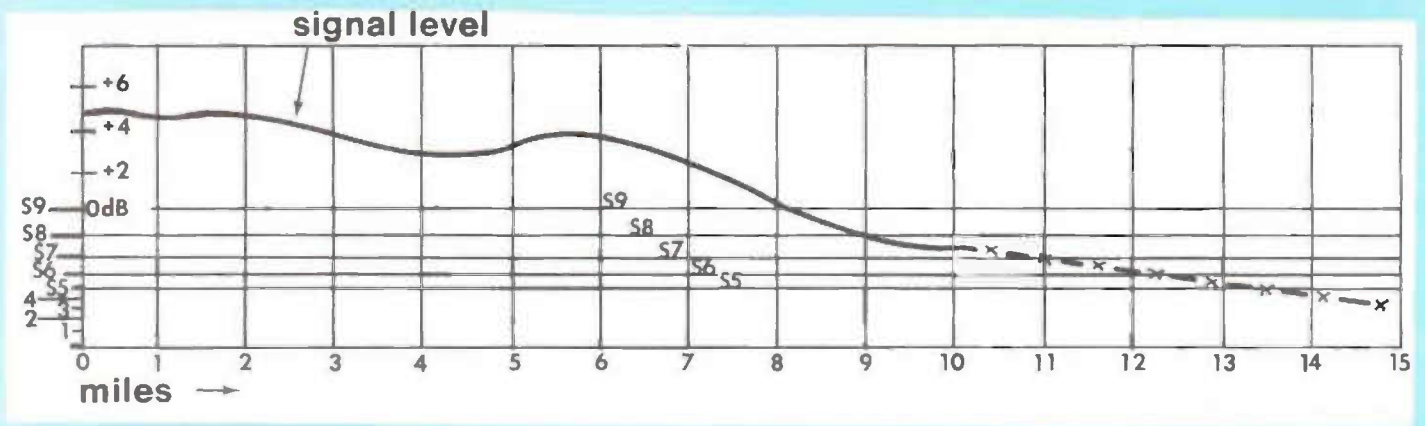
spasmodically. Ask any Radio Amateur who operates regularly on the 28 to 29MHz amateur band. Even now F layer reflection which makes skywave propagation on 27MHz (and 28-29MHz) possible has already deteriorated and will continue to do so through the summer months. DX will return but to a lesser degree at the beginning of winter. This form of propagation is controlled by the degree of sunspot activity which is at maximum only once in approximately every eleven years. We are now approaching the time when this activity is falling toward minimum i.e., when the DX will virtually disappear altogether and not just during the summer. **The next sunspot maximum is about 1990!** Meanwhile it will not matter how much power or what kind of modulation you use or what antenna system you set up, your signals will only go straight through the F layer to be for ever lost in outer space.

Ground-Path Propagation

Even short skip i.e., operation with the European countries will diminish, especially during the summer months. This leaves only local working by ground-path (or ground-wave) propagation over distances which are very firmly determined by the rate of attenuation of radio waves at 27MHz over normal open ground and/or in large built up areas by the general height and density of buildings.



Fig 1 Composite photo of the author's laboratory (see text)



Although the rate of attenuation over ground at 27MHz is fairly high, higher than at VHF, it should be possible with low power FM and really efficient antennas to cover quite useful distances.

Field Strength Trials on 27MHz

The writer has been engaged for some time now in carrying out field strength tests to determine the average working distances possible with power levels of 4 watts and 2 watts using efficient antennas for both base and mobile operation. The equipment used for this work is shown in the composite photo (fig: 1). It is capable of very accurate measurement and is also employed in conjunction with antenna design work. For example, the large radar-like unit to the left is used for continuously displaying radiation patterns and measuring antenna gain. Beneath this is a direct reading decibel meter that operates in conjunction with a pen chart recorder (centre) and a receiver and antenna. For example, the signal level from a mobile transmitter operating with an antenna under test can be continuously recorded on magnetic tape as the distance of the mobile from base increases. When the trial is complete the tape can be re-run and the field strength/distance information can be automatically plotted on the pen chart. To the right hand side of the photo is the main transmitting/receiving equipment and various other measuring instruments.

The whole of this equipment is flexible in use and can be employed in ways other than those already mentioned. Accuracy is the important factor in all measurements, signal levels and antenna gain for instance, can be determined to within better than ± 0.5 dB. Antenna radiation

patterns can be plotted on the chart recorder in cartesian form or displayed visually in polar form on the polar pattern indicator with a readout to within 1/10 of a degree on pattern formation and to within better than 0.5dB on amplitude. Power and VSWR measurements are all made with standard laboratory instruments and design work on antennas can be carried out over the entire frequency range 1.8 to 1000MHz. Photographs of antenna radiation patterns from the polar pattern indicator have already appeared in my articles in recent issues of CB Radio Magazine. With the coming event of legal CB radio for FM it has been considered worthwhile to study the ground-path ranges possible with good antennas and a working power of either 2 watts or 4 watts. Incidentally the range difference between those power levels over an average ground-path in open country is about 18%. Later on I hope to be able to show the results of some of the field trials that have been and are being continued using both efficient antennas for mobile as well as for base station operation and using power levels of either 2 watts or 4. A first example is that shown in fig: 2 and is typical of a mobile to base range during normal daylight hours using a power of 4 watts transmitting from the mobile with a fairly efficient antenna and for reception using a centre loaded half-wave at a height of about 30 feet. As can be seen the signal level at a range of 10 miles has fallen to only just below S8 (8 pounds in CB jargon). The dotted line continuation shows the average rate of attenuation that would have prevailed with an increase in distance to 15 miles at which the average level would have been about S3 to S4. With a quiet background signals at this level would have been perfectly readable using either AM or FM. More about short range or ground-path propagation will be dealt with in Part 11.

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Dealing with Interference Problems

By E.A. Rule Part 5

Interference to Hi-Fi systems

First, the bad news. There is virtually nothing that can be done at the transmitting station to prevent break through from the transmitter into audio Hi-Fi systems. About the only things that will help are either to reduce power output from the transmitter or to change from SSB or AM to FM. Explaining to the person suffering from interference that its their equipment that is at fault calls for very good diplomacy and tact coupled with firmness.

It is almost 100 percent certain that the fault is in the Hi-Fi system, however this does not mean that the transmitter operator can ignore it. As far as the sufferer is concerned his equipment is ok until you transmit, and its up to you to help solve the problem all you can.

Quite a few remedies can be applied externally to the Hi-Fi amplifier and these should be tried first. The writer is not in favour of the transmitter operator undertaking to modify the internals of a system, to do so may mean that if any thing went wrong at a later date you would be blamed as it was "all right until you touched it". If the

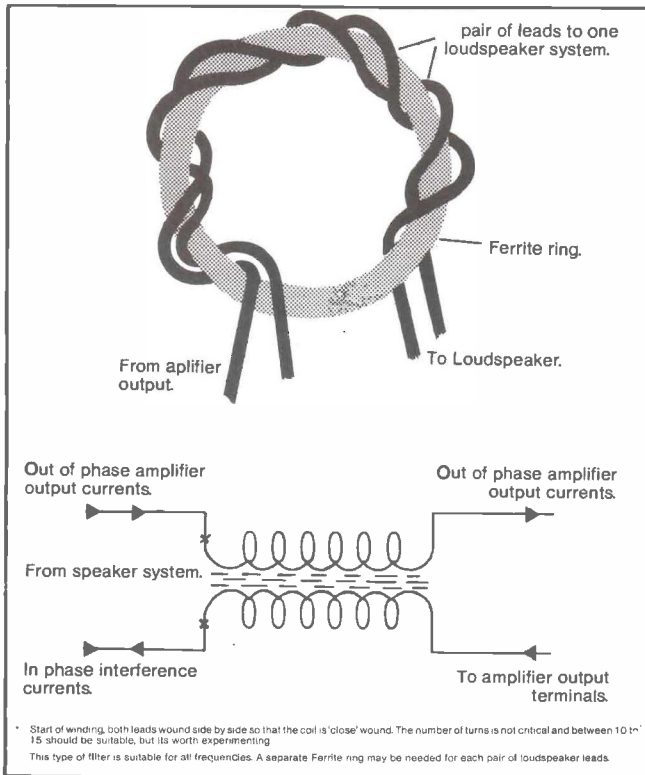


Fig 13.

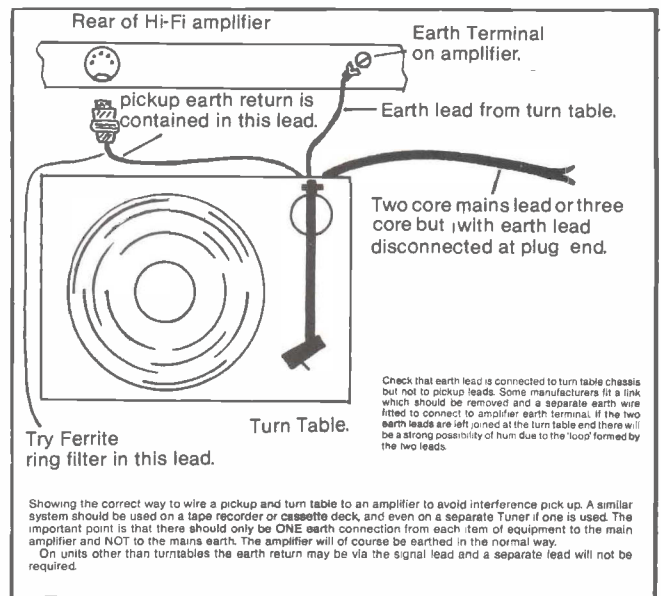


Fig 14.

amplifier requires modifications to its internal parts it is best to get a qualified service engineer to do the work. There is then the problem of who pays for the work done. The method suggested by the writer is to explain to the owner of the Hi-Fi system that you will look into the problem and supply any EXTERNAL filtering free of charge, but that if the amplifier or other equipment requires internal work, then the owner of the equipment must make his own arrangements for an engineer to work in conjunction with instructions from the transmitter operator. This way the owner of the equipment decides who will work on their pride and joy and also knows how much it will cost. it is not your responsibility to pay for any of his work, the fault is in the Hi-fi system, however for the sake of keeping on good terms with your neighbour it is worth considering some sort of financial help. After all, its as much in your interest to get the problem cleared up as theirs.

Effecting a cure

The first thing to do is to check what type of interference is present. It is on all inputs, ie. tape, disc, radio etc. or only perhaps one. Is it affected by the volume control or any other control? See chart No. 2.

The volume control test is important, if the volume control has NO effect on the level of interference, then the fault is in the Power Amplifier stage and most likely

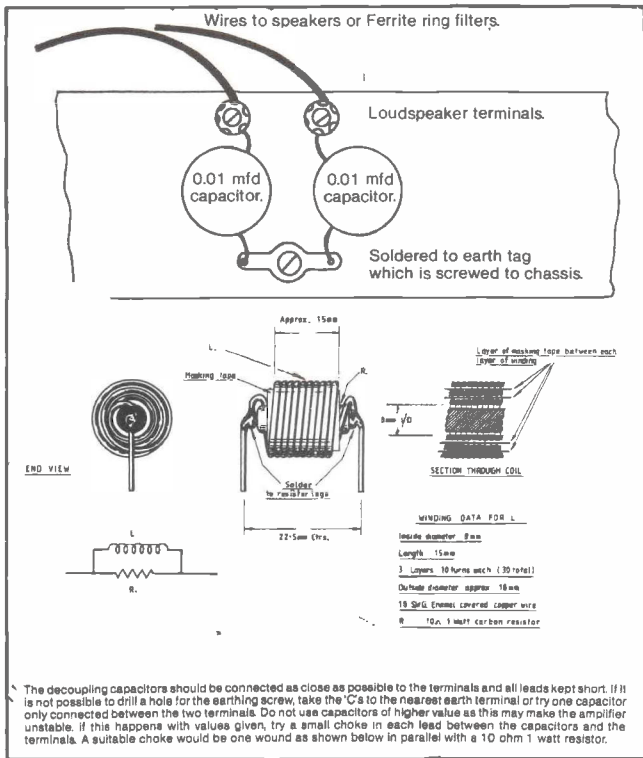


Fig 15

picked up on the loudspeaker leads, which tend to be long. If the volume control also controls the volume of the interference, then the signal is being picked up on the inputs in some way, check to see if its one particular input or all of them.

If the Hi-fi amplifier has a headphone socket try a pair of headphones but with the loudspeaker leads removed (not just switched off) if the level has reduced or the interference stopped all together then the leads are picking up the signal and ferrite ring filters should be tried. Fig 13 shows the construction and these are similar to the ones used in the TV feeder described in part 3. These ferrite ring filters may need the addition of a decoupling capacitor as well. The capacitor is connected from each of the plus and minus loudspeaker terminals to chassis. Fig 14 shows how to do this. The combination of decoupling capacitor and ferrite ring filter is about as far as one can go regarding interference on speaker leads except for trying different length leads (shorter if possible) either with or without the filters. Sometimes the capacitors on their own will work best.

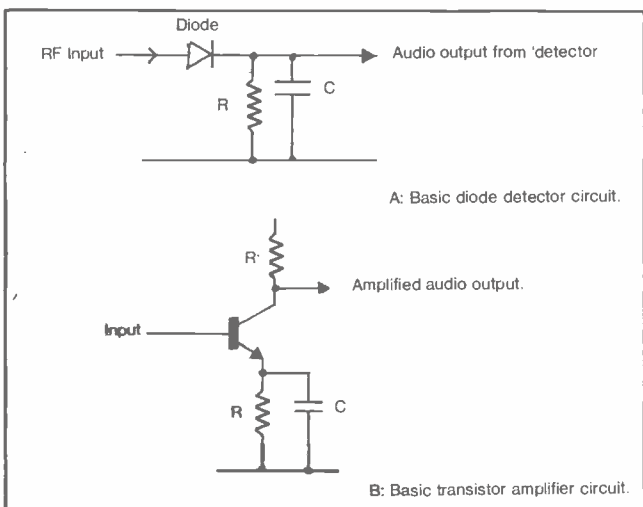


Fig 16

The same type of filter can be used with the other input leads if the interference is picked up by these, but only the 'earthy side' of input leads can be decoupled with a capacitor. On no account try to decouple the 'live' input lead. Start off with only the loudspeakers connected, if the interference has gone connect each other lead back in turn and see if the interference comes back with any particular lead. Deal with each one in turn making sure that its free from interference before proceeding to the next.

Quite often the FM aerial lead will be found to be the problem. Try a ferrite ring filter or a braid breaker type as shown in Fig 3 part 3. If the external AM aerial is the problem, try a series or parallel trap as shown in Fig 9 part 3.

Interference can also be caused by the way the earth lead of the disco turn table is wired. These are sometimes earthed to the third pin of the mains and this can cause very strong interference signals to get into the Disc input. The 'mains' earth lead should be removed and connected to the amplifier chassis instead. Most amplifiers will have an earth terminal fitted and this can be used for this purpose. This earth lead from the metal frame of the turn table to the amplifier chassis must be isolated from the actual pick up earth leads, otherwise hum may result. Check that it is isolated, sometimes there is a wire link underneath the turntable connecting

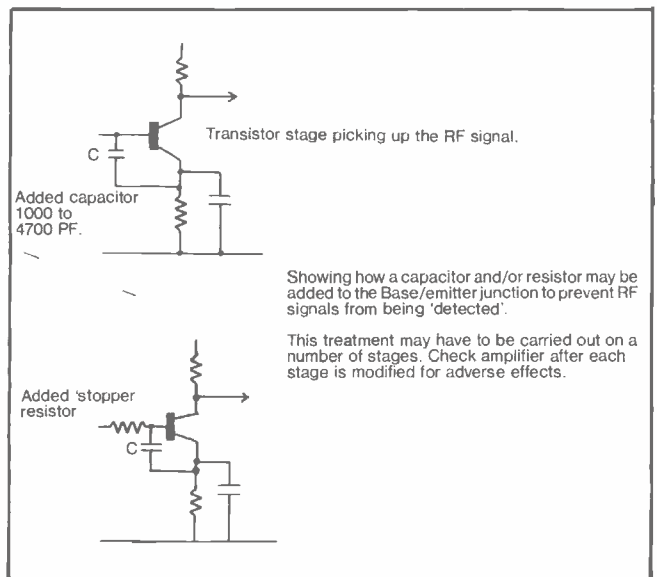


Fig 17

the pickup earth to the metal frame of the turntable. This MUST be removed and an independent earth wire used instead. Fig 15 should make the correct method clear.

We now come to the tricky part, modifications to the internal parts of a Hi-Fi system. The writer suggests that you always get a qualified engineer to carry out any work involved with the internal workings of a system as this will avoid any blame to yourself if anything goes wrong at a later date.

The most common fault which causes interference problems is due to RF getting into one of the amplifier stages where it is then 'detected' and passed on to the later stages as a normal audio signal. Looking at Fig 16 we can see that the voltage amplifier stage (which is typical of most amplifiers) is very similar to the diode detector circuit also shown. What happens is this, the RF signal is 'detected' by the diode section of the transistor and the resulting audio signal is passed on to the rest of the amplifier. ONCE THIS HAS HAPPENED THERE IS NOTHING YOU CAN DO TO GET RID OF IT. The RF signal must be prevented from getting into the circuit in the first place. One simple method of doing this

Dealing with Interference Problems

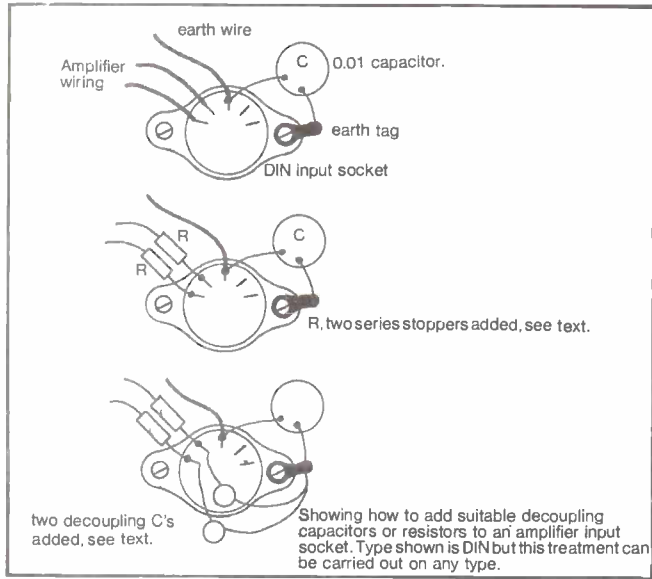


Fig 18

is to decouple the Base/Emitter junction of the transistor with a capacitor of between 1000 PF and 4700 PF, the actual value is not critical and will not normally have any adverse effects on the amplifier. Fig 17 shows how this can be done. Keep the capacitor leads short and mount the capacitor directly across the transistor pins (the best place is on the underside of the printed circuit board). If the stage is an input stage it may also be worth trying a 'stopper' resistor of around 1K ohm as shown in fig 17a but this sometimes affects the working of the amplifier and the system should be checked out for any adverse effects.

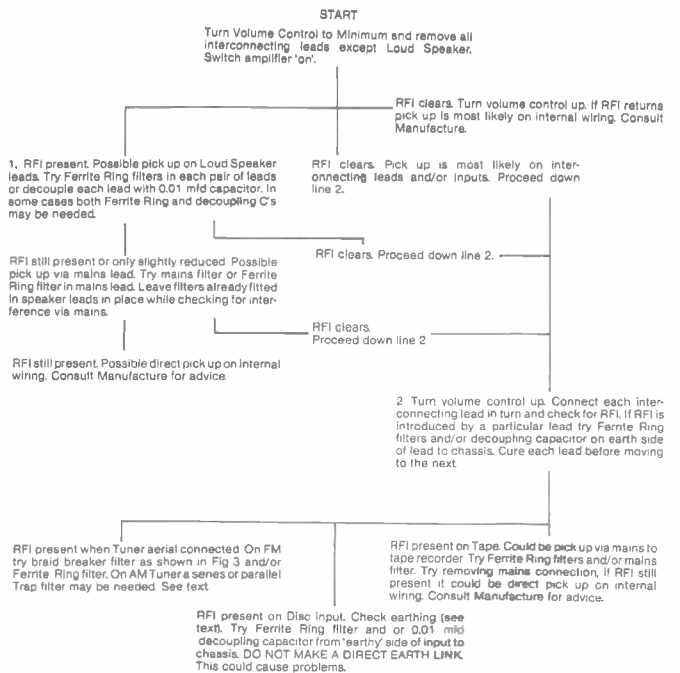
The earth wiring inside any Hi-Fi amplifier is often long this is to avoid earth loops which would cause problems, however it can cause interference problems. The answer to this is to decouple the earth line at various points with a number of capacitors, a value of 0.01 mfd should be suitable. These should be wired from the various points along the earth line to the nearest point of the chassis. It is not unknown for an amplifier to need up to 12 or more capacitors before a cure was effected, however after any modifications always check the system out for any adverse effects. The best type of capacitor for this is the Disc Ceramic, for decoupling the

Base/emitter junctions the polystyrene type can be used or the small Disc ceramic types. These are available from most component stockists.

Another point which can be decoupled is the 'earthy' side of the input socket, fig 18 shows how this is done. Sometime a low value 'stopper' resistor will also help, fig 17a. The value of resistor will depend on the type of input but in general up to 4700 ohm for Disc inputs and up to 10,000 ohms for tape or Tuners should prove ok. A small decoupling capacitor fig 19b may also help but the actual value should be as low as possible otherwise the treble response of the amplifier will be reduced. A point here worth mentioning is that rather than continuing to speak into the transmitter microphone while all this testing is going on, place a loud ticking clock next to the microphone and set the rig to transmit (a rubber band will hold the switch down), the ticking of the clock will be heard quite well while testing for interference!!!!

So far we have dealt with interference originating from the transmitter, next month we shall take a look at interference from other sources which can cause problems not only to TV and Hi-Fi installations but also cause problems for the operator when trying to receive weak signals.

interference tracing chart
Chart No. 2



This chart may be used as a general guide to tracing the cause of interference with Hi-Fi and other Audio systems. Proceed down the chart in an orderly manner and the reason for the interference should become known. The help of a third party will make the tests easier to carry out.

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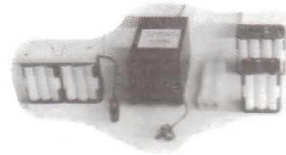
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The Birmingham Demo

The Big One! Over 6,000 AM Supporters

You might get the impression by reading the above headline that we are late in reporting the Birmingham Demonstration. However due to a fairly early copy date last month, this issue of CB Radio Magazine is the first one that was available for coverage. Birmingham Demonstration happened two months ago (by the time you read this article) but was notable amongst demonstrations and certainly worth reporting.

Our first impression on arriving in Birmingham was one of delight because the sun was shining and everything seemed set for a perfect demonstration. The entire town was buzzing with breakers, horns blasted out loud before the event was due to take place and everyone was eager to get underway. Although all these breakers were in high spirits there was no obvious trouble or law breaking.

The assembly point for the march was Chamberlain Square next to Birmingham Town Hall, and as the square consists of graduated steps it was fairly easy to see who was there in force. Clubs converged from all over the north to express their disgust with current legislation proposals and to demand 27MHz AM for CB. (Once more the London & Southern clubs were notable by their absence.)

The demonstration had been organised by the Midland Citizens Band Radio Club in conjunction with the South Birmingham Citizens Band Club who between them had read the service of the Sheffield Sovereigns to lead the march. According to official sources the march consisted of 6,440 people which is without doubt the biggest demonstration for 27MHz AM ever, to be held. The march started to the sound of the Silver Sovereigns accompanied by the sound of falling raindrops: any crowd in less, determined mood would have broken up and gone home, not so the Midland breakers! Most people (ourselves included) had come dressed for a warm summers day and consequently were soaked to the skin within a mere 100 yards.

With a minimal police presence for the purposes of traffic direction only, the march a circular route through the city centre. Stunned shoppers and passers by were in the minority as the inclement weather had all but driven them off the street. However anybody that did see the march couldn't have been left in any doubt as to what was happening!

The march marched, the band played the crowd roared and everybody got wet. On returning to the town hall the Sheffield Sovereigns marched very smartly to a

covered archway, 'fell out' and were loudly applauded by the breakers for doing such an admirable job under such terrible conditions (how would you like marching in the rain in a mini skirt.)

Proposed rally and attendant speeches to be held at the end of the march back in Chamberlain Square were all but washed out. As for us we were informed no CB celebrities had turned up to address the crowds and it's probably just as well because, most breakers followed our lead off to a dry warm beery environment.

I'm of the firm opinion that God's weather control dept. is not on the side of Birmingham Breakers. 27MHz AM may only be a hopeless dream for mere mortals but surely it was adding insult to injury by allowing the sun to shine 30 minutes after the demo had finished.

Joking apart 6,440 people can't all be wrong now can they. In view of the final specifications now realised, 27 MHz AM will I'm sure still be with us for some time and demonstrations in the future for this cause will probably be even larger and just as well organised. Buzby effigys will still be burnt or drowned, club banners will still flutter aloft and the march will still have to be, 'the best attended march'.

P.E.C.



The Cornwall Convoy

Heston-Hyde Park-and off into the distance.

The weekend of the 6th June saw nearly a dozen demonstrations, eyeballs, marches and trade fairs across the country and the staff at CBRM were scattered across the country in an attempt to report on most of the events.

One event that covered a lot of the South west area on its own was Freebees D Day. Organised by Freebee (of the 21 Club of Newquay and Kurno United Breakers Society) to demonstrate the breakers resistance to the Governments proposed frequencies and mode. A motorcade left Cornwall early Saturday morning heading for London and 10 Downing Street.

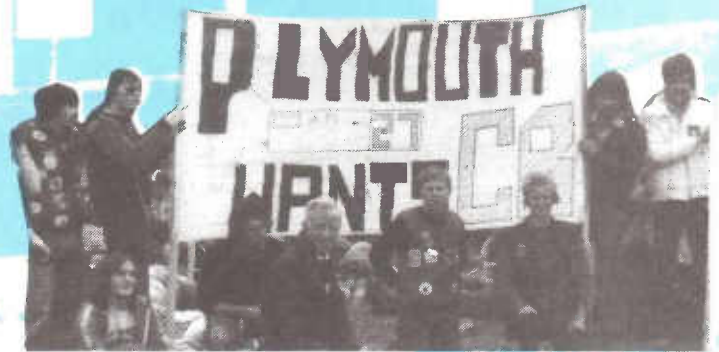
28 mile convoy?

Rather than start at Cornwall, I headed for Heston to meet the rest of the breakers before they joined the Cornish cars. First to arrive were the Gloucester breakers with approx. 25 cars and they were quickly followed by Essex, Wandle Valley and Middlesex breakers. A bright, rather cold day, there were already reports of a 28 mile long convoy heading up the motorway, although the police were steadfastly denying that there was any sort of convoy. In fact the police looked rather bored with the occasion but nearly all agreed that they were in favour of CB and that they had better things to do than apprehending CB'ers.

Towards 1.30 a line of headlights along the motorway announced the arrival of the cars from Cornwall and the enthusiastic drivers at Heston sped out to join them. The police were talking anxiously into their radios as the convoy they had denied existed headed off towards London with horns blaring. Looking back along the M4 there were 200 cars stretched into the distance with lights shining and balloons and posters streaming in the wind. They carried on to the centre of London until the police and traffic effectively dispersed the convoy into small groups of lost motorists. However everyone eventually managed to find Hyde Park and a place to park.

What is the fuss!

At Hyde Park the weather improved and about 600 people assembled around a flatbed lorry to sign the petition and listen to the speakers and organisers. A collect-



ion was also taken for the Thames Valley 'Little Caesar' Kidney Fund. Freebee spoke for some time on the need to unite against the governments proposals and to insist on AM/SSB operation. He was opposed to the various national organisations and accused them of seeking power and not representing the breakers. Obviously a man with a grievance, Freebee was clearly unhappy about the organised CB scene and with the several magazines on the market, ours included.

Again the police were rather uninterested in the proceedings and several I spoke to were anxious for the march to move off so they could go off duty. They were unimpressed with the turn out and a more senior officer said he failed to see what the fuss was about'.

After waiting some time for the expected supporters from Birmingham it was decided the march could not be delayed any longer, so the crocodile like line of supporters moved off. The march caused quite some delay to the central London traffic as the police cars cleared the route to let the march through. People were overheard to say 'Why aren't

they satisfied - it's going to be legal' which shows that CB'ers have not informed the public as well as they had hoped.

Downing Street

After handing in the petition the weary marches had to find their way back to Hyde Park to collect their cars and, for many of them start the long drive back home.

It's a bit difficult to report objectively on an event like this when the organiser publicly describes CB Radio Magazine as 'definitely 10-1' to the people assembled for the march. The temptation is to answer likewise but leaving personal differences aside it must be said that Freebee and his wife put a considerable amount of effort into organising this project and it was a shame it was not better supported. What are the different circumstances that lead over 6,000 attending the Birmingham demo and only 600 in London, distance, commitment, organisation?

A question that has been posed many times before but nobody seems able to answer!

SS

WALL TO WALL

THE
GREAT
NEW
ALBUM
BY

CITIZENS
BANNED

Recorded at Chestnut Studios in Farnham during March 1981. Wall to Wall is the first CB music LP ever to be produced in this country.

Throughout the whole album is well put together and produced, the musicianship is competent and the lyrics humorous and coherent. The composers of nine out of the ten tracks Spatz Melzer and Alan Thorpe have been doing their musical homework and have encompassed most styles of contemporary music on this album.

Although no new musical barriers have been broke in the making of this LP, any breaker will delight in the lyrical content which is CB orientated throughout. The composers are obviously very PRO 27MHz AM and portray not only the hassles of being busted, but also emphasize the "social service" aspect of CB which too often gets neglected.

As far as I'm concerned all the tracks are worth a listen but the outstanding ones in my opinion are:

Nigel From Weybridge, in which a snotty upperclass sounding breaker meets his match. Mr Melzer's vocal flexibility is shown up well here.

CB Song, which has previously been released as a single depicting the trials and tribulations of a new breaker coming on channel and arranging a very dubious eyeball from his first copy.

Firestik Antenna comes up with some alternative uses of the forementioned twig. One of the uses might well raise a few eyebrows (keep your ears on Mrs Whitehouse).

Dear Mr Whitelaw. A not so subtle poke at the establishment, which points the finger without any hesitation at the bureaucratic hassles which have resulted in a CB system that this "band" obviously don't want.

The only real criticism I can make of this album is that some of the lyrics will not be fully understood by some new breakers or non CB users. However with some listening and learning it should be possible for the non CB'er to gain some experience on our air procedures.

If you are strictly a classical music fan don't bother listening to this record. If a mixture of madness, Chas and Dave and the Beatles, is your bag (and you're a breaker) this record will bring some enjoyment to your listening. I am also sure that almost everyone will find their own favourites.

P.C.C.

CITIZENS BANNED

SPATZ MELZER (lead vocals)
GRAHAM MASH MURPHY (guitars)
PETER WILF WILLIAMS (percussion)
MIKE MALDAN (bass & saxes)
ALAN THORPE (drums & guitar)
PAUL HART (saxes, guitar)
DAVE SHERRINGTON (bass)

Barking vocals by: Tanya
GILL LONGHURST,
FERRI BANHAM,
GILL CARSON

SIDE 1

NIGEL FROM WEYBRIDGE	1:00
CB SONG	1:12
THE TIDDINGTON BUST	1:30
SPATZ BANG	3:10
HEADS FROM THE STICKS	3:30

SIDE 2

SUPER SHAKING	1:35
FIRESTIK ANTENNA	2:17
SMOKEY YERBIE O.K.	1:32
DEAR MR WHITELAW	1:15
YELLOW BIRD DIET	2:25

CB Song: Additional musicians: FERRI BANHAM (drums) & carols (DIP WHITELY) (bass guitar)

Yellow Bird Diet: Lead Art: Melzer Thorpe
Recorded at Sweet 16 hall with Chestnut Mobile

All tracks composed by Melzer Thorpe
Except "Smoke you're OK"
Longhurst Thorpe

All titles copyright Chestnut Music 1981
CBS18R01315 5142 00000000000000000000

Recorded at Chestnut Studios, March 1981
Produced by Alan Thorpe and Tim Wheatley
Engineered by Tim Wheatley
Sleeve design by Merlin Aldershot
Original photography by Colin Stridman

Inspirational thanks to:
Firestik Ant Co (USA)
CB Radio Magazine
The SBS
The Twickenham Snookies (no name)

Special thanks to:
Minn Mouse for the coffee
Queenie Williams for the superb breakfast cake
Maudie for the heap o' nuts
Merlin Design (we will not give names)
And my good mate Derek Barber for starting the ball rolling

104 SPATZ

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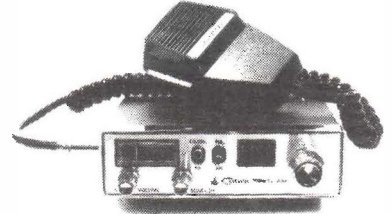
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It's strange the things you find in envelopes these days. For example, I received my fourth skip working licence last week!

I kid you not. I am now fully licenced by the Bureau of Public Nuisances to go ahead and irritate all F.C.C. monitors anywhere below Sea Level.

I was quite pleased with my latest licence feeling quite smug about it even, when suddenly BANG! My dream was shattered.

What a nerve. "WILD CATTER 3113" of Indiana, USA, was actually accusing me (among other things) of shaking four pictures off his wall and causing his cat to have running fits.

To add insult to injury Wild Catter had actually sent me a bill for the damages. Needless to say, like the honest upright citizen that I am (?) I paid my bill immediately.

Not too heavy an account either, all I was charged was one QSL card.

Aye, as you've probably realised, these strange things that I keep receiving are actually cards that come along with a QSL. I'm not certain what they're known as around the World but I call them slips.

All the ones that I've had so far, with the exception of one from Australia, have come via the USA.

They're a funny lot these Yanks. I don't know if you've ever received anything like this in the post but it gives you a good laugh when you find them. All part and parcel of the fun and friendship of QSLing. It's early days yet, but I bet sooner or later we'll see some home grown slips put in alongside UK QSL's. (What's the betting that Buzby will figure in there somewhere?).

Mind you, after saying that, I have received a 'slip' from an English CBER.

Actually what it is, is a nice little "Eyeballed" card from Ray of Northampton (Local AM Handle Green Dragon). Full marks to Ray for producing the first Home Grown slip that I've ever received. Nice One Green Dragon.

Another fave rave of mine is Rubber Stamps. The Yanks have some beauties. There are a few available in the UK but not many. My fave, and I think most people's is the famous "GOD BLESS US POOR CBERS" stamp. Keep your eyes peeled for this stamp. Its well worth acquiring. It looks A1 on the front of your QSL envelopes.



GOD BLESS US POOR CB'ers

Now what, lets have a rummage in my lucky dip, ah yes.

Well folks it's "FREE CLUB" time again. Yet another free club unearthed by the Charlie Hotel spy network.

This one really is free. To join the "JABBER JAWS QSL CLUB OF ILLINOIS" (where do they dig these names from) send two of your QSL cards and a self addressed envelope (Note: really free, not even a stamp needed) to: JABBER JAWS UNIT 01, P.O. BOX 216, OAK LAWN, ILLINOIS 60454, USA.

The usual info is required. Your name, XYL name, your handle, XYL handle, call sign, full address. In return for this little bit of effort you will receive a personal wallet size I.D. card, a JABBER JAWS unit number and a stamp map card from the state of Illinois. Wonderful stuff.

Let's move on a little bit. I've got some good news and some bad news.

The bad news first. I'm putting the Coon Ass review on Stand By for the moment. I'm a wee bit confused over their club invitations. I've two versions in my possession. So I'm ascertaining (WOW!) the correct version first before I proceed. Hopefully all will be sorted out in time for next month's review.

Now the goods news. Instead of the Coon Ass, I'm reviewing - WAIT FOR IT - the Snowman's DX Club of Iceland. The first and only Icelandic DX/QSL Club.

Snowman's Club

This is really a club out of the top drawer.

In fact, the more I look at the package and think about the time and effort put into the club by the Vice President and the Club Adviser, the more I am convinced that the Snowman's Club is destined to become one of the world's best and well known DX/QSL Club.

The Snowman's Club was founded in July of 1980 by Smart Coldness (001), Sigurd (Vice president 006) and Jon (Club Adviser 018) and its headquarters are P.O. BOX 10040, REYKJAVIK 130, ICELAND.

In just over a year, 280 Snowmen have appeared all over the World. Units 001-009 are all local Icelandic members.

Unit 010 was the first International member, this was Panos from Athens, Greece. He joined on 18th August 1980. The last member on my copy of the club roster is Terry from Belfast, Unit 280.

In between Unit 001 and Unit 280, some very familiar DX/QSL names appear. Among them are The Shrams of Seattle, WA, USA, Tom Snowden (K.I.T. Club) N.Y. USA and Gene Chelberg (Redwood Country Club) California, USA.

The Snowman's Club itself is also a member of several DX/QSL clubs, 50 to be precise.

This is a very impressive rate of growth. If this keeps up it will be a monster sized outfit.

The membership is spread over 29 different countries including some rather exotic QSL locations, for example, Kuwait, Indonesia and French Guiana. Incidentally there are 18 Snowmen in the United Kingdom. The first UK member was Unit 114 Siegfried (?) of Colwyn Bay.

I like looking through club rosters. Its surprising how often familiar names can be found. I've just had another peek at the roster and seen a chum of mine, Unit 202 Michael (Crossbow) of Bedford. How are you Pal, OK? Here's Snowballs in your eye.

In common with a lot of other clubs, in order to accommodate its DX members, the Snowman's Club does have a club frequency. Actually in this instance, they make use of three frequencies, these being 27-385, 27-795 and 27-985 (all on L.S.B.). So if ever you fire up on these frequencies, there's a chance that you might get a Snowman coming back at you.

Early this year, the Snowman's club had a slight change on its Presidency. In January Smart Coldness (001) left Iceland to go to college in the USA. He is now Honorary President, from that time on Sigurd and Jon ran the club themselves, and if I may say, do a very good job. Actually, everything about the Snowman's club is quality. The club QSL cards are good, the certificate and I.D. are good, the patch is good, even the postcards which come with the package are good.

One of the things which really puts the Snowman's Club out in a class of its own is its accessories list. This is a real nice list which includes:

Stickers.
QSL cards with members a.d. (100 for \$10).

Sweat shirts.

A rather nice item which the club members produce is a beautiful club pennant. Members receive this pennant should five new members join upon their recommendation or as Sigurd puts it "who does good for the club". a photograph does not do the pennant justice, believe me — its a smasher.

I know I appear to be going on a bit but I am very impressed by the Snowmans club. The facts speak for themselves. The Snowman's club has received 18 out of a possible 20 in the QSL star ratings. This is the first club to ever reach such a high total. need I say any more.

To sum up, a first class club, run in a first class manner by two first class blokes, Sigurd and Jon.

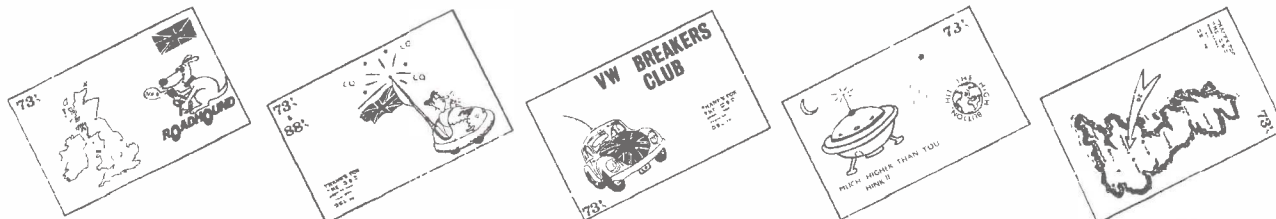
The Snowman's DX-QSL					
	Star Rating	Yes First Class	Fair Second Class	Third Rate	No
1	World Recognition	★			
2	Distribution	★			
3	QSL Response Time	★			
4	Club Stamp	★			
5	Club QSL Cards	★			
6	DX Unit Number	★			
7	Wall Chart	★			
8	I.D. Card	★			
9	Club Roster	★ £1.00			
10	Club Patch/Badge	★ \$3.00			
11	DX Log Book		★		
12	Club Accessories	★			
13	Club Information	★			
14	Tourist Information	★			
15	Cassette Swop				★
16	Club Postage	★			
17	Life Membership	★			
18	Discount XYL Membership	★			
19	Value For Money	★			
20	Overall Presentation	★			
Total Star Rating		18			

Next month we are really going to go exotic. I think its about time we went somewhere really romantic so I'm going to check out the Aloha Paradise Club of Hawaii. I'm so involved with this QSL club lark that I really live the part. I've just written this review sitting inside the refrigerator.

What's the betting I write next month's wearing nowt but a grass skirt!!
ALOHA from Charlie Hotel.
Regards to you all — take care.

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K-27
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K-40
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Harada TX-20
HARADA TX-21
Rubber Duck
Gutter Mount
Avanti Astro Phantom
Avanti Moonraker AV-241
Avanti Moonraker AV-261
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 Round Up . . . Round Up . . . Round Up . . . R

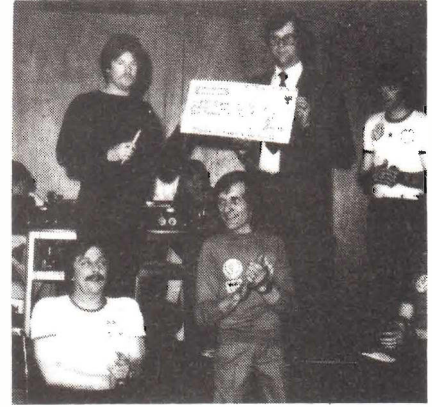
£1,542 Courtesy of Rent a Gob

Anyone who came to our 10-4 day exhibition at the Heathrow Hotel will remember the Stoke Mandeville Olympic Village Appeal and Devil Dog (see letter in Readers Write) the breaker who raised most of the money by putting breakers on the spot and insisting that they donated.

The editor of CB Radio went down to Hillingdon Borough CB Club at their invitation, to present a cheque for £1542 to the Deputy Secretary General of the British Paraplegic Sports Society. The turn out at the club was enormous that night and they

even stayed quiet long enough to listen to the editors speech! The cheque, as you can see from the photo, measured 2ft x 1ft and Barclays will accept and honour it like an ordinary cheque.

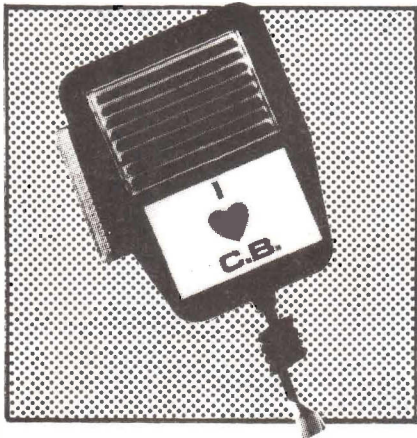
Credit for this excellent sum must go to Devil Dog, Poacher and Star Trek who worked very hard over the three days of the exhibition. The staff at the magazine would like to say a particular thanks to Devil Dog who worked unceasing, and being disabled himself almost made himself ill with the amount of physical effort involved. We were going to have a whip round in the office to buy some throat lozenges for him too!



Dutch Craze. Hits Britain

Remember the 'waving hands' craze that swept across the country a few years ago as luminous hands waved messages to the motoring and pedestrian population?

Following in its footsteps comes the 'waving mike' a black and silver microphone on a holder and suction pad with a selection of messages; I ♥ CB, give us a break! And CB on AM.



These mikes will be available through CB shops but the suppliers are particularly interested in hearing from clubs as it will be possible to have club names or logos on the mike rather than the 3 preprinted messages. As well as helping to raise club funds, 4p from each sale is set aside by the supplier to buy rigs for the disabled and housebound. This scheme has already been in operation for sometime in the Netherlands and many sets have been installed.

To find out more, contact Holland Promotions, 4a Stamford Brook Road, London W6 Tele: 01-743-1964.



Bath Lady Breaker Victory

Mrs. Lucy Ann Gower carried off the Miss Lady Breaker 1981 title at the Kenilworth CB Show by demonstrating her ability to use her rig. Lucy belongs to the Aquae Sulis Club at Bath and got interested in CB through her husband, who is also a breaker.

She was chosen from ten finalists out of hundreds of Lady breakers who entered the competition and was judged on her 'CB style' and personality.

Lucy will not be called on to act in any official capacity until the autumn when legalisation means she can come out into the open but she can enjoy her £100 prize and trophy.

Opel-La Premiere Voiture en France avec CB.

For all of you who are not well paid CB journalists who can afford holidays in France (well, a day trip to Calais at least) I'll translate - Opel the first car in France with CB. Opel have been quick of the mark and introduced a model with a Midland CB fitted, they even include a few words of French lingo (CB of course) in their advertising copy.

It will be interesting to see if they will be as quick in this country to introduce a similar combination with the Government approved sets installed, or whether one of the British motor manufacturers will beat them to it.

In the mean time 'amities, poignee de main and grosses bises' (or in other words, 73, 51 and 88 for those of you who don't belong to the international jet set).



CB INSURANCE

Are you well covered?

As reported in CB Radio Magazine last month we now have provisional details of another worthwhile insurance scheme which is designed to take the risk out of breaking.

The scheme, although offering cover for every breaker be he legal or illegal a club member or a learner, will be of best financial benefit to the club whose entire membership takes part.

The underwriters who are writing this scheme have a vast amount of experience in the entertainment field thus giving them a fairly exclusive insight into unorthodox insurance.

The basis of this policy is to cover breakers for all eventualities, and although final verification is still to be agreed, the draft cover is as follows:

- * Rigs stolen from a vehicle.
- * Rigs damaged in any way whatsoever apart from misuse.
- * Rigs confiscated by any official body.
- * Attendant court costs arising from confiscation (ie: witness expenses etc.) up to a maximum of £100.

As with any insurance there are a host of ifs and buts surrounding the policy. Do not be deterred this is standard procedure to protect the insurance company and its assets (this will ensure that any claims made will always be met).

The cheapest policy is one organised and documented through a legitimate CB club with 100% participation by its members. To cover the risk of having your rig stolen from a fully alarmed but un-

attended vehicle would cost approximately £3.75. The cost to a club whose entire membership does not participate would go up by approx.50p. Any breaker making a claim through the club scheme would be liable to pay the first £10 of the amount.

If however, the rig is installed in an unalarmed, unattended vehicle the breaker has the choice of either paying the first 50% of any claim or alternatively increasing the premium by about £3.00.

The chances of having your rig confiscated by Buzby & Co. are fairly high (if you read Vultures on the Side regularly you will see what we mean).

This company not only offers a replacement rig in the event of confiscation but will also help towards attendant court costs. This extra cover will increase the premium by approx.£3.00 and represents good value when you consider costs could range between £35 and £50.

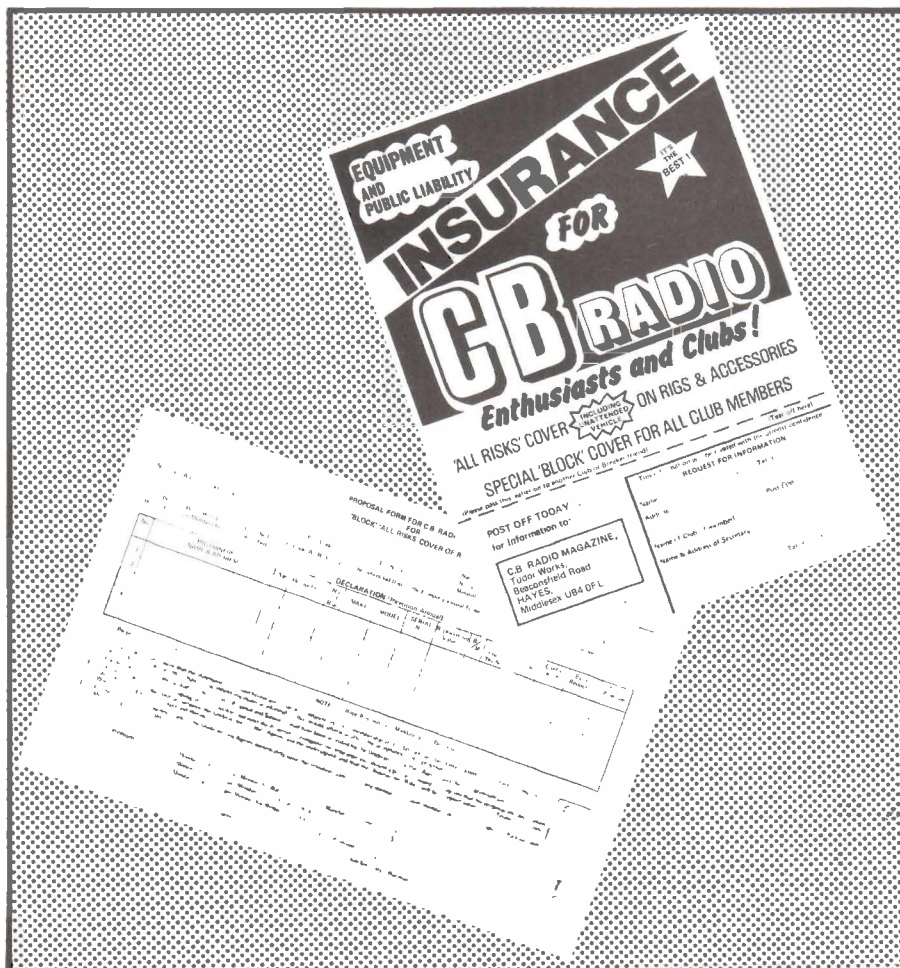
As for us we can ascertain this is the only insurance policy which actually cushions the effect of using a CB as regards attendant court costs. This of course does raise a whole new aspect of insurance, from which you can draw your own conclusions.

So much for club orientated insurance, but what of the individual breaker, well he can take advantage of the aforementioned by paying a slightly higher premium.

The only reason that the club scheme is significantly cheaper is as a result of administration. Clubs who do insure their membership will be expected to undertake certain amount of paperwork. This will alleviate the insurance companies from some of the daunting tasks of rig registration and claims, giving clubs more responsibility but the benefit of lower prices.

As yet this particular form of insurance policy is not available for a number of reasons. The most important reason is that the company underwriting the scheme want to be able to offer further leading forms of cover for CB'ers. New insurance modes always take time to formulate, when the details become available CB Radio Magazine will be publishing them. In the meantime for those clubs who cannot wait enclose a S.A.E. and mark it clearly CB Insurance and we will forward your request for more information to the underwriters concerned.

P.C.C.



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Readers Write

ODE TO MOZART

I read your letter, Mozart, with a grimace on my face
And thought your "composition" needed putting in its place.

The "bandwagon" you write of has been jumped on by a lot
And it's doing something, Buddy, that your cynicism's not.

"Trash language"? - Well, it might be, but it's understood by all

From the "gawd almighty" cockneys to "The Chaps in Eton Hall".
I wouldn't say "sub-cultural" was being quite polite

There are educated Breakers, and a few like you, alright!

I'm not at all "embarrassed", I'm illegal on AM.

'Cos the Buddy's that I copy won't be shelling out again.

For we get a good clear copy with our unofficial sets
And the distances of FM? Well, I won't place any bets.

I won't "catch you on the flip-flop", 'cos I've had my little say

And a Wally needs ignoring — because then he goes away.

Incidentally, bucket-mouthing is extremely frowned upon

So you forfeit golden numbers — 10.10 — Breaker Break — I'm gone.

73's and 88's to the rest
of you good Buddies.
MOCKINGBIRD
Leighton Buzzard.

Dear Sir,

I have just received your magazine for June 81 and am at a loss to understand the Home Office Draft Document relating to the specification for 934 MHz. Firstly under "Scope of Specification" it is stated that the separation between nominal carriers will be 25 KHz, this would allow 39 channels within the allocated spectrum 934.025 to 934.975 MHz. Why are they only going to allow 20 channels? Also why is there a 25 KHz spacing between channels I5 and I6 and 75 KHz between I6-I7? Is the spot frequency of 934.775 MHz a "Birdie"?

Secondly, how does an R.F. output power of 8 watts give an E.R.P. of 25 watts? I'm sure your readers would appreciate an explanation of the difference between R.F. power and effective radiated power (I thought they were one and the same with a correctly matched antenna).

Thirdly, equipment with an integral antenna can be 8 watts if the antenna is of the "plug in" type (as are the normal VHF handsets in use at the moment), and a correctly matched external antenna can simply be connected to the socket after removing the integral antenna to increase range.

Fourthly, under "operating frequencies"

if a piece of equipment is designed to operate over a range of frequencies (as with synthesised tuning which present equipment has) then the upper and lower frequency is bound to have a centre frequency — or am I being thick?)

Many thanks for a very informative publication and look forward to meeting all you "Good buddies" in the not too distant future on my return from Japan to the UK in August.

Yours faithfully,

A.J. PEARCE

(The Bamstomer) Japan.

P.S. I don't have the information with me, but it looks as though the *allocation of frequencies* extends into the bottom of the radio amateurs 10 meters band, could you clarify this for me. Thank you again.
For 27MHz operation

To answer your last point first, yes its close but not actually in the official amateur band. Many of your other points have been answered in the final specification and probably were discussed at length before MPT/1321 and MPT/1320 were released.

Under operating frequencies the Spec now states: "The initial spacing will be 50 KHz" (934 FM) and continues "If a synthesiser is used 25 KHz channel spacing may be adapted but only the frequencies corresponding to the numbered channels actually used." These actual frequencies for 934 MHz FM are listed in this issue in the article "British Citizens Band".

As regards RF and ERP, we have dealt with both aspects in our series "Antennas and Transmissions on CB Frequencies". But could HMG be thinking of allowing co phased linear stacked antennas on 934, surely not!

The biggest joke though must be 4 watts RF 2 watts ERP! "What antenuation".

Dear Sir,

I live on the Isle of Wight, where there is a great deal of fox hunting. Many breakers take part and I know they all thoroughly enjoy the sport (?) Even though the sport is well organised, will it be made illegal when legal CB is introduced?

Being not old enough to drive my own wrapper (16), I usually have to scrounge a lift off the breakers. But one sunny day I had a thought, could I rig up a rig on my push-bike. The answer: A Big 10-4!

My rig, a FORMAC 120, was mounted across the handlebars. A 7ft Firestik sprung from my carrier rack along with two 6v batteries connected in series and I was mobile.

It's not quite fast enough for fox-hunting (makes the legs go a bit 10-7), but it's a great way to put "pedal to the metal" and just cruise around 10-10 Brains (Dead End).

Yes, fox hunting on the old Diamond is a nice way to spend a day or two, there's no real reason why it should be illegal on FM, but you never know! (PS. Regards to poker player if you see him).

ED

Dear Sir,

I would just like to put my point of view forward to the readers of our magazine.

I have been breaking longer than 95 per cent of the people on CB today. I can remember when a knock on the door was something that happened regularly. What

annoys me are these people who come on air using handles and when confronted about it try to tell you that they've been on CB for 8½ years. Yes, it has happened to me, I know for a fact he'd only been on about six months.

Don't get me wrong, it's not the using of handles that annoys me. I suppose it should flatter people when someone copies their handle, it's when people say they've been on two years, three years, five years, etc. because before it all came out in the open about 13 months ago by way of magazines like this one we, the minority of breakers, had a fight on our hands and a big fight at that, we risked more than we do today. CB twigs on cars were very rare, I can remember travelling from Sheffield to Stamford in February last year and I got one copy all weekend. When I go now I never put the mike down. The moral of this story is — use our handles, swear, mess around, get us a bad name we can't stop you very easily, but it's the law of the jungle we were here first so abide by our laws.

ANONS & WIFE

73 and 88's to all ex-channel 5 club members, must have a big re-union some time.

Dear Sir,

I refer to the letter from 'Band Aid' in readers write June 1981. In item 4 of his letter he refers to giving the emergency telephone number (painted on the side of the box).

However, all motorway users should be aware of the marker posts which are placed every 100m on each side of the motorway — they are in the grass at the back of the hard shoulder.

These marker posts have numbers on them in two rows. The top number states the number of kilometres from the start of the motorway, and the number below it gives the tenth of a kilometer (long slip roads have a slightly different system). a little symbol on the marker post also shows the direction to the nearest telephone.

When giving the location of an accident, the marker post number will pin-point it for the emergency services.

It is still vital that you state which motorway and carriageway is affected as the numbers are the same on both sides of the motorway and are not unique to any particular motorway.

Any CB'er making a call about a motorway incident should ask for the police. Finally, should anyone be unfortunate to witness an accident involving a Hazchem warning panel, the message to the public (including CB'ers) is "The Diamonds" say "Stay away".

C.C. MALE

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Readers Write

Dear Sir,

I feel that I must express my views on the vexed subject of CB'ers using channel 19 as a breaking channel.

At the very outset I must stress that as a trucker, the last thing I would wish for would be to create a divide between "Big Wheelers" and other users, being a firm believer that CB Radio is a wonderful and fascinating medium that should be enjoyed by all.

Now to the matter of CH19... From the earliest days of CB Radio in the USA I understand that CH 19 has been the "Roadusers" Channel, upon which all manner of information in respect of RTA's Smokie Report, traffic conditions etc. has been relayed. Surely it follows that any Breaker driving on a highway should be tuned to CH19 if he wishes to maintain up to the minute intelligence of traffic conditions. It then seems logical that should two road users establish contact, they should be entitled to chat one with the other without changing channels, for otherwise they would miss just such information that may be put out over the air. It would appear rather ridiculous to expect any other breaker with information to report to have to break on forty channels in order to get across this news, when all that is

necessary for him to call out "Breaker on the Side", which should gain him an immediate response from the other breakers who are making copy. It is very noticeable of late that many areas are moving from CH19 to other channels for local breaking purposes, and it is a fact that response is much better with main-stream traffic removed from the breaking-channel, which must surely prove a point.

In closing may I say that as we users of CB Radio are at present all doing so illegally, nobody has any just claim to precedence over anybody else, but commonsense and good manners should allow us all to gain the maximum benefits of our great hobby.

Yours faithfully,

BRUNO (GY20)

Channel 19 in the USA is the undisputed 'Truckers' channel and is being used here as both calling and motorway channel. There's no solution in sight yet.

ED

Dear Ed,

Having just read the latest issue of CB Radio it saddens me to see so many complaints about National 10-4 Day when I myself achieved so much from it. I refer to the Stoke Mandeville Olympic Village Appeal. By now you have gathered that I was the loud mouthed breaker on the Year of the Disabled Stand, who started off on the Friday as Devil Dog and ended up on

the Sunday as Renta Gob, courtesy of one of the exhibitors.

What I would like to say is a big thank you to all you breakers out there who donated to our appeal, and thank you for not punching me in the mouth which I am sure a lot of you felt like doing, but I am sure you will agree that no one took offence.

I promised you all that we would get TV and Press coverage but it seems from my attempt that the Ripper and the GLC Elections are more important. As the news editor of the Daily Mirror told me: "If you do something bad today it makes the news, if you do something good it won't. Thames Television and Nationwide told me: "People are doing this sort of thing every day of the week. (And they call this the Year of the Disabled). Oh well, at least we did our bit.

I would like to finalise by saying, this year is the International Year of the Disabled. I believe it should be every year, because when you are disabled you live with it every day of the year until the day you die.

Thank you CB Radio for all your help and for making it possible. Thank you the HBCB Club, Poacher, and Star Trek, and to all you Breakers at 10-4 Day for helping to make it our Year of the Disabled.

All the Golden Numbers to you all.

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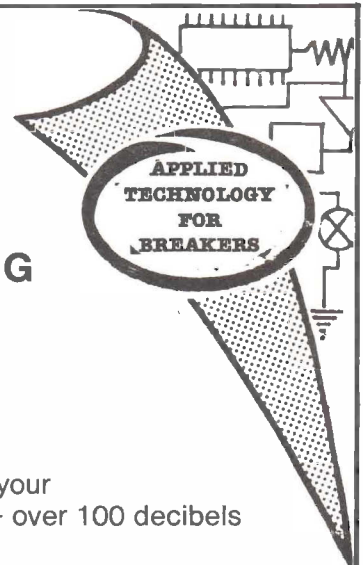
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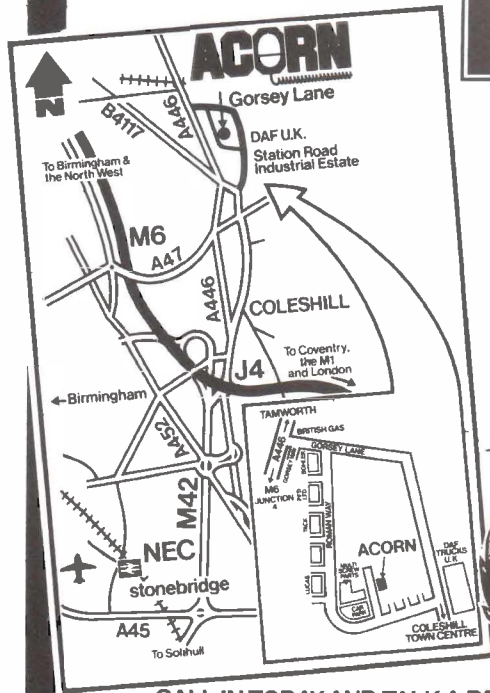


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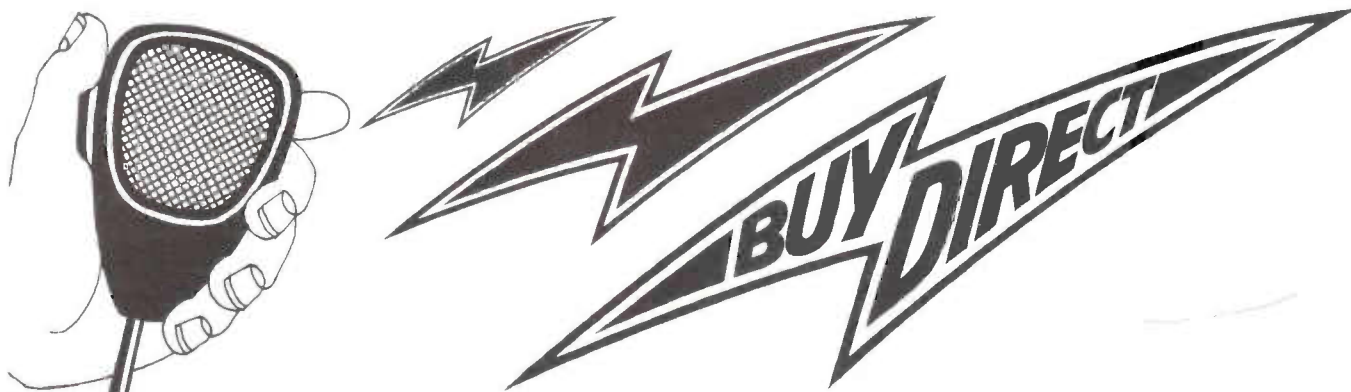
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| CB MASTER (40 Channel) | £69.95 incVAT |
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NEWS REVIEW



More what the papers say!

The amount of press coverage on CB still seems be fairly minimal at the moment apart from usual coverage of thefts, good deeds and bogus Customs/Police officials. Although one interesting new field of interference has cropped up, namely robots, but more about that later. On the whole it has been very quiet and it would appear that it is going to stay that way for the remaining two or three months before the legal system is finally introduced. Then, via the press, we should find out how many breakers will be prepared to use the new system and how many will continue to break the law and use the American AM system.

CPD

Guardian Elastic Band

The first news article this month to catch my eye was written by Alan Rushbridge and published in the Guardian. Billed as an account of "New wave road magazines" of which he claims that "No fewer than six have sprung up in anticipation of legalisation of CB in this country". Mr Rushbridge starts to enlignthen us slightly on the magazine market, "But these are troubled times for the editors of magazines hoping to cash in on the boom," he says and then goes on to quote "one" of the editors as saying "Basically, we are finding it difficult to fill our pages."

It seems to me that Mr Rushbridge has spoken to the wrong magazine. Immediately I had finished reading the article I despatched a copy of CB Radio to him and a letter asking why he never spoke to us and explaining that "we" have absolutely no trouble filling our pages with relevant CB articles.

Mr Rushbridge then continues to say "until the Government decide on which frequency they are going to licence there's no point writing about equipment, all we can do is write about frequencies, and

we've been doing that for two years already."

That's a little hard to believe considering we were the first "CB magazine" and we have only been going for 15 months. But then some people do like to exaggerate don't they. Altogether a totally untrue and biased article designed to deliberately deflate the CB market. But then we're biased!

Sun Office Girl Chased By Randy Robot

Not only do we hear complaints that CB interferes with model aircraft, TV's, paging systems and the like but now in this instance it has interfered with a robot. Evidently CB signals caused the Robot (originally designed to hand out leaflets at an exhibition) to go out of control and pin pretty secretary Jennie

Seff against the wall. Eventually her boss Edward Tornanien managed to unplug the 5ft tall robot called Robotham before any injury could be caused.

Evening Post CB Enthusiast In S.O.S Drama

A health authority official has denied that an ambulance controller behaved callously in response to an emergency call by a Citizens band Radio enthusiast, claims the Evening Post, Plant Man, a breaker from Kent, telephoned for an ambulance when he received a 10-33 from a pregnant woman in need of urgent hospital admission. Plant Man said that the controller at Kent Ambulance Headquarters refused to send a vehicle unless he left his name and address which he was not prepared to do. As a

OFFICE GIRL CHASED BY RANDY ROBOT



SWITCHED OFF . . . Jennie and soucy Robotham are pals again

Metal Mickey-taker

PRETTY secretary Jennie Seff blew a fuse when she was chased around the office . . . by a randy robot!

Jennie screamed in terror when the pint-sized metal man went out of control and pinned her against a wall.

Her typewriter and paper went flying as she tried to evade his clawing clutches.

Jennie, 24, made a desperate lunge for the control box on the robot's leg to try and switch him off — but missed.

She was finally saved from the live-wire lecher when her boss heard her screams — and pulled the plug on the well-oiled office wolf.

Pose

The antics of the 5ft robot — called Robotham — stunned Jennie's boss Edward Tornanien.

His Bournemouth-based exhibition firm paid £1,500 for the robot to pose in promotions.

"He is normally so well behaved," said Edward, "and is programmed to

hand out literature at exhibitions.

"I could hardly believe my eyes. Jennie's office was in an awful mess.

"All I could do was go for the control box in his leg. I turned up his metal trouser leg and switched him off.

Edward believes that CB enthusiasts may have accidentally tuned in to Robotham's wavelength and caused him to go haywire.

He said: "We have about 6,000 CB fans in this area.

"We were warned when we bought him that he operates on their AM waveband."

By PETER BOND

name and address is not an unreasonable request, I think in the circumstances Plant Man could have been a little more co-operative (after all he doesn't have to tell them how he received the call).

Eventually Plant Man made a 999 call to the Police, who ordered an ambulance. It was however revealed later that after authenticating the call with the maternity hospital the ambulance controller sent a vehicle to Mrs Booker, three minutes before the police call. Later Mrs Booker gave birth to a boy without any problems so one way or another CB helped in this situation.

Hunts Post CB USERS RESPOND TO WARNING FROM POLICE

CB radio users were given a pat on the back by Cambridgeshire Police recently. After an announcement that Police were stepping up action against the users of large linear amplifiers who were causing severe problems to vital service messages, Mr Gilbert, chief constable for Cambridge, said at a meeting of the county committee that following "beneficial publicity" the problem was beginning to resolve itself. In fact there has been a good response on what has been a nuisance.

The forces communication officer received several calls from CB clubs who agreed to adopt voluntary measures to prevent reoccurrence. The move followed approximately ten instances of serious interference to VHF channels between March 1 to 26. He said: "Such voluntary co-operation is welcomed and will, if continued, avoid the need to step up police action further and it is hoped that this sense of responsibility will be applicable in the autumn when FM sets will become legal."

Eastern Daily Express

BREAKERS AID SEARCH FOR MISSING BOY

The search for a ten year old Norwich boy was joined by members of the Norfolk breakers club earlier this month. A spokesman for the club said that they would be pulling out the stops to help find the missing boy. The details were circulated to 200 or 300 breakers although the police denied that they asked the breakers for help.

"They 'phoned us," said the police spokesman, "we can't really 'phone them." They also added that any help or information would be gratefully received although there is no reason to suppose that he has come to any harm. The latest news is that Gary has been spotted in the city by friends, and it is thought that he left home due to a

CB pair on 170-mile coast-to-coast walk



Citizens band radio enthusiasts Steven Adams (far left) and Brian Sykes (centre) are pictured about to set off for Blackpool for a 170-mile sponsored walk back to Bridlington to raise money for equipment for the Avenue Hospital.

The two walkers, members of Bridlington's Attic Breakers Club, will be supported by other CB clubs along the route, though they have a back-up caravan as well.

"One of the aims of the walk is to show that CB users are not like criminals, and have a good character," Mr Adams said. With Mr Adams and Mr Sykes are Mr Ken Hatfield, of the back-up team and Nursing Sisters M. C. Gibson and E. Rozenbroek.

The Breakers Club has raised £51.48 for the hospital from a jumble sale.

disagreement with his parents.

Morning Telegraph CB TRICK BY BOGUS POLICE

CB radio enthusiasts claim they are being conned by bogus police officers who confiscate their rigs. Sheffield police say that complaints have come in from breakers who have been stopped by two men, driving around in a white Rover. The men, who dress in authentic police uniforms, confiscate the rigs and sell them afterwards for around £100 a time.

The incidents have mainly taken place on the M18, M180 and A1(M) near Doncaster. The police said that they are looking into the complaints, but in this case many of the people have made a complaint, and then hung up without leaving their name. Enquiries continue.

The Times

POLICEMAN FINED

Police Constable Richard Bamford, aged 31, of Ash Rise, Northampton, was fined £50 by the town's magistrates yesterday after he admitted installing a Citizens Band radio transmitter in his car and operating it without a licence.

East Anglian Daily Times

DEALER SEEKS RETURN OF SEIZED SETS.

"A Bury St Edmunds CB dealer is waiting to hear if he is going to get back sets seized in Customs raid," we are told by this newspaper. The sets, sixteen in total, were taken during a raid on Skid Parishes Garage at Thoston. He was apparently away on business at the time, but returned in time to hear the news. Since then he has been trying to find out from the Customs and Excise if he is breaking the law -- and if not why he can't have them back. Nice to be naive, isn't it. The Customs are obviously trying to find out where Mr Parish gets his supplies from but he is not prepared to tell them. He says: "As far as I know I'm not doing anything illegal," and added that, "It was a strange coincidence that the raid had taken place while I was out of the country."

A spokesman for HM Customs and Excise said that "altogether 27 sets had been taken in the Bury area over the past three months" and that he was not prepared to comment on individual cases.

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Serial No: Model: Make:

Have you ever had a loss of a CB set YES/NO

Has any insurer declined to accept or renew any policy YES/NO

If yes to either question, give details on a separate sheet.

DECLARATION

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- (2) HEART OF ENGLAND
- (3) BRITISH C.B. er
- (4) THIS IS C.B. COUNTRY
- (5) SEDDON ATKINSON
- (6) LEYLAND
- (7) BEDFORD
- (8) FORD
- (9) VOLVO

} Includes CB Logo

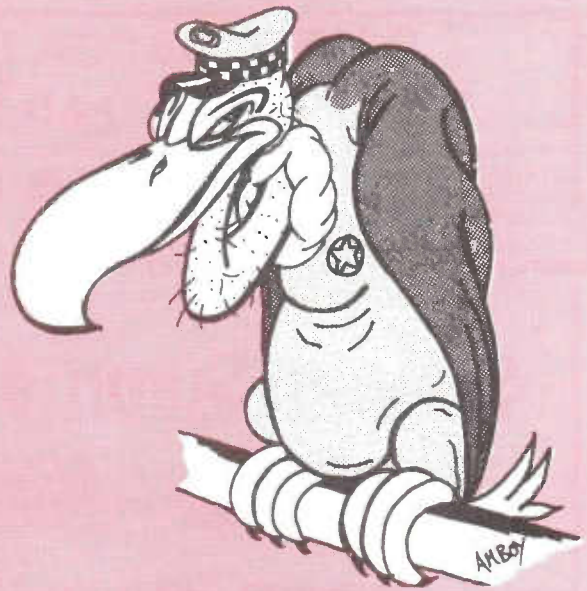
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ADDRESS

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Vultures on the Side



A Rotten End To A Good Deed

Monday, 29th June at about 11 o'clock in the morning, a phone call from a London kiosk informed us of the imminent arrival at Trafalgar Square of a sponsored walk from Wales.

The walkers had, infact, reached Gower Street, about a mile and a quarter from their destination where they had proposed to collect money for charity.

A Good Reception

On arrival at Trafalgar Square, I was not greeted by a group of enthusiastic breakers with collection boxes as I had expected but instead stumbled on a handful of tired disappointed and very frustrated members of the Dodge City Breakers Club. Parked adjacent to the breakers was a grey bedford van adorned with a banner publicising the walk, and sporting a grey DV27 antenna. A closer look through the drivers side window revealed a Cobra 19 GTL 27MHz AM transceiver. It would seem that I was not the only one to notice the illegal equipment as two constables from nearby Bow Street police station had also seen it and were asking the driver of the vehicle a few questions, ie, whose it was, why it was there and so on!

Not altogether sure what to do in this particular situation the London bobbies, were in contact with Bow Street, nick for advice. Bow Street themselves were not sure what the correct procedure was and inturn contacted the Home Office, who referred them to H.M. Customs and Excise.

All this referring and confirming takes time and the resultant effect on the breakers was one of extreme boredom and frustration, especially as the police had caught up with one of the other vehicles from the club who had disappeared as quickly as the police had appeared, at the sign of any trouble. The result of this was a thorough search of the car, just in case there was another one of these 'CBs' inside. The search failed to reveal any evidence although the police were quite sure that the equipment had been very cleverly



concealed or desposited somewhere for safe keeping.

An Eventual Decision

After a wait of over half an hour the police announced that the van was to be impounded, the driver detained for further questioning, and that they were to wait for an authorised driver from Traffic Division to come and take the van away.

Plus a police van to take the driver to the police station! After another tedious 10 minutes or so, the driver from T.D. arrived and the van was taken away for a thorough search at Bow Street.

Another even more tedious half an hour passed and there was still no sign of the other police vehicle. During this time I managed to have a quiet word with one of the police constables who told me that, had they not put the rig on display in the window of the van they would have been quite prepared to turn a blind eye to the suspicious looking antenna on the roof which was quite obviously a CB antenna,

but as it stood the constables on duty considered the prominent display of the rig an insult to their intelligence, and felt that they were having the micky taken. As a result action had to be taken in order to preserve their dignity and respect.

So really, the lesson to be learnt here is, if you are going to use CB where there is likely to be a high concentration of police, don't wave the carrot in front of the donkeys

Eventually the van arrived and the driver was carted away to the Police Station. The remaining breakers followed on foot, after requests to be taken in the van were refused. News reached me later in the day that the van and driver had been released after about 1½ hours, the rig had been confiscated, as yet no charges have been made. All in all it was a great pity that a charity event should end in such an unfortunate manner especially after walking all the way from Newport in Gwent. So commiserations to the Dodge City Breakers and better luck next time.

CD

CB Radio Club Directory

Part 1

Abingdon Gaol Breakers
Venue: Crown & Thistles,
Bridge Street, Abingdon, Oxon.

ATB
Abbey Town Breakers

Ace Breakers Club
Greenwich, London.

Airdrie Breakers Club
Contact: 6, Rochsoles Drive,
Airdrie, Strathclyde,
Scotland.

Aire Valley Breakers Club,
Venue: Shipley Civil Social Club,
Shipley, West Yorks.
Contact: C/O Miss C. Cardwell,
53 Albert Avenue, Saltaire,
Shipley, West Yorks, B218 4NS.

Airwave Breakers
Venue: The Plough,
Bedminster, Bristol.
Every Monday 9 pm to 1 am.

Ale Breakers Club
Venue: 'Waiting Room',
Hale Village, Manchester

Amalgamated Breakers Club
Venue: The Crown Hotel,
Liverpool Road, Birkdale.
Alternate Thursdays.
Contact: Brenda Gruncklee Sec.
78, Bedford Road,
Birkdale, Southport.

Amber Valley Breakers Club
Venue: The Cowboy Club,
Derby.
Every Tuesday.

Anchor Breakers Club
Venue: The Anchor Pub,
Shepperton, Middlesex.
Every Tuesday 7.30 pm

Andover 27 Club
Andover, Hants.

Anglia Breakers Club
Venue: The Great White Horse
Hotel, Tavern Street,
Ipswich, Suffolk.
Every second Sunday 7.30 pm.

Apple County Breakers Club
The Lord Nelson
Ilminster, Somerset.
alternate Sundays 8.00 pm.

Aquae Sullis Club (Bath)
Venue: Tiffany's, Bath.
alternate Mondays 9 pm to 1 am.

Ardudwy Breakers Club
Talsarnau, Wales.

Arun Breakers Club
Venue The Windmill Public House
Littlehampton and
The British Legion, Bognor Regis
Bognor Regis.
Meetings held at these venues
on alternate Monday evenings

A.78 Citizens Band Breakers Club
Larg's & District

Ash Breakers Club (ABC)
Venue: Victoria Hall,
Ash Hill Road, Surrey.

Ashford Breakers
Ashford, Kent

Aston Breakers Club
Littlehampton.

Atherton Breakers Club
Contact: C/11 Ramsey Close,
Atherton, Nr. M/C Lancs.

Attic Breakers Club
Bridlington

Avon Breakers
Venue: The Lamb Public House,
Cadbury Heath, Bristol.
Every Friday 8.00 pm

Aylesbury Breakers Club
Venue: The Buckinghamshire

Aylesbury Breakers Club
Venue: The Buckinghamshire
Yeoman, Aylesbury, Bucks.
Every Wednesday evening 8.30
pm.
Contact: C/O 57, Awey Road,
Aylesbury, Bucks HP19 3NP.

Ayrshire Breakers Club
Ayrshire, Scotland.

B.A.20
Venue: Binny Hall, Binchester
Hall, Bishop Auckland.
Twice monthly, Thurs 7.30 pm

Banagher Foxtrot Citizens
Band Club, Ireland.

Band Town Breakers Club
Brighouse

Bangow Town Breakers Club
Venue: Scruples, Bangor Town,
Trowbridge.
Alternate Wednesdays.

Bann Valley Citizens Club
Ballymena, Ireland.

Bargain Town Breakers
Venue: Sale Hotel,
Sale, Manchester

Barnet Breakers Club
Venue: Barnet Football Club
Mays Lane, Barnet, Herts.
Every Sunday 8.00 pm.
Children's eyeball
same venue Sunday afternoon.
contact: Discount CB
148A East Barnet Road,
New Barnet, Herts.

Barnsley Breakers Club
Venue: the Londoner,
Monk, Bretton,
Barnsley, Sth Yorks.
Contact: Mrs M. Spence (Sec),
55, chatsworth Road,
Barnsley, South Yorks S71 3QH.
Tel: Barnsley 88450.

Barnstaple Breakers Club
Barnstaple.
Contact: Mr Peter Whitehead
(0271-814080)

Barrow CB Club
Venue: The Soccer Bar Social
Club, Waivey Road,
Barrow-in-Furness.
Alternate Wednesdays 7.30 pm

Barry Breakers Club
Barry, Wales

Barwell Citizens Band Radio Club
Leicester

Basingstoke Breakers Club
Venue: Sinatra's Night Club
Basingstoke.
Every Wednesday 9 pm.

B.A.20
Venue: Binny Hall, Binchester
Hall, Bishop Auckland.
Alternate Thursdays 7.30 pm

B.A.T.S. Citizens Band Radio Club
Newbridge, Ireland.

B.A.T.S.
Venue: The Milford Arms,
London Road, Isleworth.
Every Sunday 7 pm.

BAY CITY BREAKERS
Portstewart, N. Ireland.

B.B.C.
Bedford

B.B.C.
Wales

Beach Breakers Club
Venue: The Andacres
Sandbanks, Poole, Dorset.
Every Monday 8 pm.

Bearsden & Milngavie CB Association
Contact: K. Sutherland,
16 Second Avenue, Bearsden,
Glasgow G61 2LR.

Beech Breakers Club
Contact: 123, Willingale Road,
Loughton, Essex.

Belfast Citizens Band Club
Belfast, N. Ireland.

Benbradagh Citizens Band Club
Londonderry, N. Ireland.

Big A Breakers Club
Contact: 244 Lyndhurst Ave.,
Tices Meadow,
Aldershot, Hants.

Big A District Breakers
Venue: The Flour Grader
(Spillers Club),
The Portway, Bristol.

Big Ben QSL Club
Contact: Jim Glavin,
14A Bridge Street,
Godalming, Surrey.

Big C Breakers Club
Caemarvon, N. Wales

Big E Breakers
Venue: Devonshire Hall,
Devonshire Hall Lane,
Tottenham, London N17
Every Thursday

Big Four Club
Contact: 40 Brunswick Square,
Hove, Sussex

Big H. Luddites
Contact: 6, Fieldhouse Road,
Huddersfield, Yorks.

Big M Citizens Band Club
Linton, Kent.

Big O Breakers Club
Stockport.

Big S Breakers Club
Colne

Big S Breakers Club
Southampton

Big Top Breakers Club
Milky Way,
5 Council Villas, Melton Ross,
Burrethby, S. Humberstide

Big T Breakers Club
Tarporely

Big Tree Breakers Club
Mansfield

Biggin Hill Reps Club
Westerham

Birdcage Breakers
Yeadon Liberal Club.
8 pm Tuesdays

Biscuit Town Breakers
Venue: Merry Maiden,
P.O. Box 123 Shinfield Road,
Reading RG3 5JY
Every Sunday 7 pm

Black Country Breakers
Contact: 21, Spring Hill,
Birmingham B18 78H.

Blackrod Breakers Club
C/O Secretary, 4 Eastside
Martin, Blackpool.
Venue: the Guards Club,
Whitegate Drive. 7.30 pm.

Blackpool Breakers Club
Contact: C/1 ADS Electronics,
239 Dickson Road, Northshore,
Blackpool, Lancs.

Black Hole Breakers Club
Venue: The King George,
Stainforth, Doncaster.
Every Wednesday

Boomerang Breakers Club
Venue: The White Lion,
Moulton, Northants.

Bootleggers Breakers Club
North Benwick

Border City Breakers
Carlisle, Cumbria

Borderline Breakers Club (B.C.B.C.)
Venue: Moxley Arms,
Moxley, West Midlands.

Boulevard Breakers Club
Contact: 56 Kirkdale Drive,
Glasgow G82 1ET.

Bournemouth Independent BBreakers Assoc. B.I.B.A.
Venue: The Coach House,
Ferndown, Bournemouth.
Every Tuesdy. Contact: "Wendy"
C/O Skywave, 73 Curzon Road,
Boscombe, Bournemouth

Boxers Breakers Club
South Liverpool

Boxtown Breakers Club B.B.C.
Venue: Rotters Night Club,
Turncroft Lane, Offerton,
Stockport.
Every Wednesday 830-1.30

Boy Breakers Citizens Band Club,
Carberry, N. Ireland.

Bracknell Breakers Assoc.
Venue: Bridge House,
Wokingham Road,
Bracknell, Herts.

Bradford Breakers Assoc.
Bradford, West Yorks.

Braithwell Rig & Twig Club
Venue: Braithwell W.M.C.
South Yorkshire.
Every Tuesday 8 pm

Bravo Sierra Club
Contact: 29 Highfield Road,
Sandridge, St Albans, Herts.

Breakaway Breakers Club
Leeds

Breakaway Breakers Club
Washington

Breakaway CB Club,
Venue: City Engineers Club,
Corporation Yard,
Waterside, South Lincoln

Breakers Alley Breakers Club
Standlane Tavern, Ghost Town
Every first and third Monday

Breakers Town Citizens Band Club
Venue: Stanley Club, Stanley Rd
Carshalton, Surrey.
Every Tuesday 7.30 pm - 11 pm

Breakers Yard CB Club
Venue: The St Heliers Arms
Carshalton, Surrey.
Every Monday 7.30 pm - 10.30
pm. Contact Tel: 669 5441.

Breckland Breakers Assoc.
Brandon

Breiffni Breakers Club
Northern Ireland

Brewery Town Breakers
Wem, Shropshire.

Brickett Wood Breakers Club
Venue: Gardenia Nudist Club,
Lye Lane, Brickett Wood.
Every Wednesday evening.

Brickett Wood Breakers Club
Venue: Gardenia Nudist Camp,
Lye Lane, Brickett Wood.

Every Wednesday evening.
Contact: Lee Components Centre
7 Langley Road, Watford.

Bridgetown Breakers Club
Venue: Phoenix Social Club,
Hessle Road, Hull.

Bridgend Breakers Club
Mid Glam, Wales

Bridgnorth Breakers Club
Bridgnorth, Salop

Brighton Breakers Club
Brighton, Sussex.

Bristol CB Club
Venue: The Paradise Motel,
A38, Redhill, Bristol, Avon.
Every Tuesday 9 pm - 12 pm.
Contact: C/O above address.

Britannia International Sidebanders
Contact: Scott Marshall,
12, Kepsford close, Leeds 5

British Concorde Intl QSL Club
Contact: Julie Newbold,
187 Walton Road,
E. Molesey, Surrey

British Sideband Network
Contact: Albie and Lesley
Vickers, 15 Carman Walk,
Broadfield, Crawley, W. Sussex.

Broadland Breakers Club
Venue: Sutton Staithe Hotel,
Sutton, Norfolk.
First Sunday in the month.

Brown Bottle Breakers
Venue: Baton PH and British
Legion Hall,
Alternate Mondays

Brownhill Breakers Club
Contact: C/O Salters Road,
Labour Club, Salters Road,
Walsall Wood, Brownhills

B.S.A. Citizens Band Club
Venue: The Sydenham Drinking
Twenty, Smallheath.
Alternate Fridays

Buckingham Breakers
Venue: Woolpack Inn,
Buckingham.

Bugs Bunny Give Us a Nine Club
Venue: The Hand in Hand,
Boxhill Road, Boxhill, Surrey.
Every Tuesday 8 pm.

Bulwell & Hucknall Breakers Club
Nottingham.
Contact: Mrs C. Willetts,
14 Thorndale Road, Stockhill,
Basford, Nottingham.

Burns Breakers Club
Contact: Braehead Hotel,
Whitlatts Road, Ayr, Scotland

Burton & District Radio Club
Contact: D. Allen, 6 Rostoton
Road, Staphenhill,
Burton-on-Trent, Staffs.

Burton Breakers Breakers Bury Breakers Club
Nailors Green Hotel,
Holcombe, Ramsbottom, Lancs

Buzby Binders DX Club
Birmingham

Caithness Breakers Club
Wick

Cake Town Breakers Club
Banbury

Call Box Citizens Band Club
Leamington Spa.

Cambridge & District CB Radio Club
Gwydn Street, Cambridge

Campaign for British Citizens

Birmingham.
Contact: Mr. Keith Townsend,
1163 Yardley Wood Road,
Birmingham B14 4Le

Canal Side Breakers Club

Venue: The Dingle Hotel,

Lymm.

Every Monday (excluding the 1st
Monday of the month 8 pm)

Canary City Breakers Club

Venue: Ebeners Public House,
Salhouse Road,
Norwich.

1st Tuesday of each month.
Contact: C/O 16 Meadows
Close, Hollsden, Norwich,
Norfolk.

Canvey Breakers

Venue: Hollywood Restaurant,
Benfleet

Every Sunday 8.30 pm
Contact D. Nairn,
15 South Parade,
Canvey Island, Essex.

Cardiff Breakers Club

Contact: 12 Aberdore Road
Gabalea, Cardiff,
S. Wales

Carlisle Truckers Club

Contact: 10 Dalston Street,
Denton, Holme,
Carlisle, Cumbria.
Tele: 33663

Carlton & Langold United Breakers

Venue: Costhorp Club
Langold,
Worksop, Notts.
Meet every Wednesday
at 8.30 pm

Carrick CB Club

Venue: Carrick Hotel,
Maybole,
Scotland.

Carshalton Club,

St Heliers Arms
Middleton Road,
Carshalton.
Every Thursday 8 pm 12 pm

Castle Breakers Club

Every Tuesday 8 pm
Contact: Mr Peter Beilby,
C/O 189 derby road
Long Eaton, Nottinghamshire

Castle Breakers

Venue: The Rose & Crown
Tonbridge.
Sunday 8 pm

Castle Hill Breakers

Venue: Wildflower Private
Room,
Wildflower Public House,
Wilerby Road, Hull.
Monday and Wednesday 8 pm.

Castle Hill Breakers

Contact: C/O Mr. N. A. Dennis,
14 Priory Road,
Cuttingham, E. Yorks.

Cathedral Breakers Club

Lincoln

CBA Central Scotland

Contact: 5, Carronvale Avenue.,
Larbert, Stirlingshire,
Scotland.

CBA Fire

Contact: 32, Balaise,
Leven, Fife,

CBA Manchester

Contact: M. C. Cullen
21 Westwood Road,
Stretford
Manchester

CBA Reading

Contact: P.O. Box 123,
Reading

CBA Scottish Region

Contact: Ron Warwick
10 Manse Road
Stone House,
Lanarkshire

CBA Sussex

Contact: 15 Buckingham mew,
Shoreham-by-Sea,
Sussex

CBA SW

Contact: D. J. Bennet,
7 Wookey Hole road,
Wells, somerset

CB Backpacker

Contact s.a.e. to:
Kevin and Judy
956 Marina,
St Leonards on Sea
East Sussex TN38 0BL.

CBC

Blighty's Club
Farnworth.
Every Thursday 8 pm

CBBCB Club

Contact: A. Scott Foster
103 Southwood Road,
Downside,
Dunstable, Beds.

CB Cleveland

Venue: Cross Keys
High Street,
Yarm, Cleveland.

CB Cruiser Club

Gwynedd
Wales

CBGB Club

Contact CB House,
Crosby2
Liverpool

CB Muskettiers

Milton Keynes,
Bucks

C.B.N.E.

Venue: High Fell Social Club,
Old Durham Road,
Gateshead,
Tyne and E. Wear
Contact: Ian Morrison,
P.O. Box 61,
Sunderland
Tyne & Wear.

The CB Radio Disco Social Club

Venue: The Thames Hotel,
Hampton Court.
Every Friday

C.E.B.A. Central England Breakers Association

Venue: The Staffordshire
Volunteer,
Bushby,
Wolverhampton.
Every Tuesday evening

Cefni Breakers Club

Llangefni
Wales

Cement City Citizens Band Social Club

Ciitheroe

Central Birmingham Breakers Club

Birmingham

Central Breakers Club

Venue: Lord Wolsey,
Middlesex.
Every Thursday evening

Central Scotland CBRC

Stirlingshire,
Scotland

Central 27 Breakers Club

Venue: The Bruce Inn,
Nr. Lanark,
Springkerse Road,
Stirling.
Alternate Tuesday

Charlie Tango Citizens Club

Castletown,
N. Ireland

Charlie Tango Citizens Band Club

Cow town
N. Ireland

Charlie Tango Citizens Band Club

Dungannon,
Tyrone,
N. Ireland.

Chase Citizens Band Radio Club

Cannock,
Staffs

Cheesy Breakers Club

Contact 116 St Christopher's
Drive,
Caerphilly, Glamorgan,
Wales

Cheltenham Breakers Association

Venue: Crown & Cushion
Bath Road,
Cheltenham.

Contact: 6b/6 Pitville Crescent,
Cheltenham,
Glos.

Cheshunt Breakers Social Club

Venue: Cheshunt Football Club
Cheshunt

Chester Breakers Club

Chester

Chesterfield Breakers Club

Chesterfield

Chicken Chokers Radio Club

Burton-on-Trent
Every Monday evening

Chinatown Breakers Club

Venue: Wires & Cables
Social Club,
Milehouse,
Newcastle, Staffs.
Every Tuesday evening.

Chocolate City Breakers Club

Slough

Chorley UBA

Venue: White hart
Chorley,
Lancs

Chorlton Breakers Club

Venue: Black Horse
Chorlton cum hardy
Manchester

C.H.U.B.

Venue: The Cricketers
High Street,
Hornchurch.
Every Friday 8 pm.

Christian Buddies Citizens Band Club

Dunstable

Cider Town Breakers Club

Taunton,
Somerset

Circle Breakers Citizens Band Club

Hamilton

Circle City Breakers

Bedford Green,

Horseferry,
Leeds

Cirencester United Breakers Associations

Cirencester

Citizens Band Association

Contact: James Bryant,
16 Church Road,
St Mark Road,
Cheltenham, Glos.

Citizens Radio Associated Breakers

High Wycombe

City of Birmingham Eyeball Club

Venue: 96 British Street,
Birmingham 5.
Every Tuesday

City of Derry C.B.R.G.

C/O New York New York,
Strand Road,
Londonderry

Clayton Claypit Breakers Club

Venue: Aquarius Club
Hallden Street,
off Willows lane,
Dean, Bolton.
Contact: 33, Pendle Court,
Astley Bridge,
Bolton, Lancs.

Clogher Valley Citizens Band Radio Club

Dungannon

Club 27

Gangow,
Co. Down

Club 27

Venue: Saxon Tavern
Southend Lane,
Bromley.
Every Monday 8 pm

Clwydd Valley Breakers Club

Denbigh

Clydeside Breakers Supporters Club

Contact: 62 Rosemount
Crescent, Carstairs,
Lanarkshire

Clyde Coast Breakers

Venue: Island Hotel,
New Street,
Stevenson,

Clyde Valley Breakers Club

Venue: The Club House,
Newarthill,
Strathclyde.

Coastal Breakers Association

Venue: The Ocean Bars,
Bognor Regis Pier,
Esplanade,
Bognor Regis.

Coastline Breakers Club

Venue: Wash & Tape
Le Strange Terrace,
Hunstanton,
Norfolk.

Coffee Shop

Venue: The Soxley Riding
Stables, Glasgow.
Monday, Tuesday, Wednesday
and Thursday 8 pm.

College Town Breakers Club

Lancing
Sussex.

Colortown Breakers

Venue: The White Hart

Duffield,
Derby

Alternate Wednesdays 8 pm.

Concrete Canyon Breakers Social Club

Venue: Cross Keys
Bolsover,
Nr. Chesterfield,
Derbys.
Every Thursday 7.45 pm

Concrete City Breakers

Venue: The Station Hotel,
Killingworth.
Alternate Wednesdays

Coney Island Breakers

Venue: Victoria Public House,
Monster City.

Conference City Modulators Club

Harrogate

Copy Cats Club

Contact: C/O Martholme
Grange, Altham
Accrington, Lancs

Cork City and County Citizens Band Club

Cork,
ireland

Corringham and Stanford Breakers Association (C.A.S.B.A.)

Essex

Cotswold Breakers UK

Venue: New Lodge Inn
Minchinhampton, Common,
Stroud, Glos.
Every second and last Sunday
of the month.
Contact: P.O. Box 6
Stroud, Glos.

Coaltown Breakers Club

London Square Public House
Cannock,
Staffs.

Every Wednesday

Cottonmount Breakers Club

Venue: Cottonmount Arms
Mullusk,
Newtown Abbey,
N. Ireland.

County Area Breakers Club

Inverness.
Contact:
Tony Blue (Vice Chairman),
4 Corbett Gardens,
Ardserser,
Inverness.
Tele: Ardsersier 3120

County Breakers Association

Contact:
Miss Lynn Moore,
12 Leaconfield,
Cleator Moor,
West Cumbria.
Tele: (0946) 812072

County Wicklow Breakers Club

County Wickow,
Ireland.

Coventry Junior Breakers Club

Coventry

Craggtown Breakers Club

Contact:
45 Welbeck Street,
Creswell,
Worksop, Notts.

Craigavon Citizens Band Club

Craigavon,
Co. Armagh,

N. Ireland.
Contact:
C/O Kathleen Aldridge,
18 Craigville Rd.,
Skipton,
N. Yorkshire B223 2Sa.

Crawley United Breakers Association
Venue: Centre Airport Hotel,
Crawley,
Sussex.
Alternate Sundays.

Crewe Breakers Club
Contact: 1 Main Road,
Crewe, Cheshire

Cromwell Breakers
C/O "The Winning Post",
Deeping,
Peterborough

CRIS
Citizens Radio Information Service
Contact: Louise Briscoe,
55B Brook Drive,
Southwark

Cruiser County Breakers
Contact: Brackenrigg,
Gannock Park,
Deganwy,
Gwynedd,
Wales

Cuckoo Breakers Club
Venue: Carneth Community
Centre,
Penicuik,
Scotland.
Thursday 8 pm.

Cumnock Breakers Social Club
Venue:
The Dumfries Arms Hotel,
Cumnock.
Every other Sunday evening.
Contact: 11 Glenafton Drive,
New Cumnock,
Ayrshire, Scotland.

Cwmbran & District Breakers Club
Cwmbran.
Contact: 48 Fairhill,
Fairwater, Cwmbran,
Gwent NP44 4QD

Daventry Breakers Club
Contact: Gavin Foster,
33 The Wye,
Daventry,
Warwickshire.

Dearnside Breakers
Bolton on Deane
Yorkshire

Dee Don Breakers Club
Ballater,
Scotland.

Delta Breakers
Venue: The Invicta Co-op Club
Burnham Road,
Dartford, Kent.
Every Sunday evening

Delta Echo Breakers Club
Cambridge,
Cambs.

Delta Echo Club
The Territorial,
Huntingdon,
St Ives, Hunts.

Delta Tango Sidebanders of Great Britain

Derwent Valley Breakers
Venue: Black Bull
Lancaster
Contact:
C/O 10 Prospect Terrace,

New Kya,
Stanley, Co. Durham.

Deveron Valley Breakers Club
Turiff,
Aberdeenshire AB5 7PQ

Diamond Breakers Club
Contact Silver Lady,
C/O 16 West Close,
Stevenage,
Herts.

Diamond Breakers Club
Venue:
Diamond Jubille Club,
South Kirkley.
Every Wednesday

Dirty Dozen CB Club
Venue: The Friendship Inn
Selby.
Alternate Sundays

Disneyland Breakers Club
Venue:
The Eglinton Arms Hotel,
Irvine Newtown.
Every second Thursday 8 pm.

Dixieland Breakers Club
Venue: Brenda's Place,
Roath,
Cardiff, Wales.
Alternate Fridays

Dixie Town Breakers Club
Venue: Festival Inn,
Trowell, Nottingham

Docklands Breakers Club
Contact: A. Cooke,
8 gifford Street,
Middlesbrough,
Cleveland

Dodge City Breakers
Wales

Dodge City Breakers Club
Venue: Stretford Workingmen's
Club

Don Valley Breakers
contact: 282 Eccleshall Road,
Sheffield, Yorks.

Dorset Nob Breakers club
Contact: 3 Barr Lane,
Burton Bradstock,
Bridport, Dorset

Double D Breakers Club
Contact: Dickson
43 Union Street,
Dundee,
Scotland

Dragon Breakers Association
Gangor,
Gwynedd,
Wales

Dragon Breakers Association

Dragnet DX QSL Club
The Willow Tree Pub,
Yeading,
Hayes, Middx.
Every Tuesday.
Contact: Andy Wilcox,
20 Bevin Road,
Hayes, Middlesex.

Dreffield CB Association
Contact:
22 Haworth Walk,
Bridlington, E. Yorks.

Droitwich CB Club
Venue: Edward G's Wine Bar,
Droitwich.
Alternate Sundays

Dronfield Citizens Band Club
Sheffield

Dublin 10-30 club
Dublin,
Ireland

dukesville Breakers Association
Venue:
The Dukeries Night Spot,
Notts.
Every Wednesday

Dumfries Breakers Club
Dumfries,
S. Scotland.

Dungannon Citizens Club
Dungannon

Earth Quake City Breakers
Contact: DL 7,
Rotherham Record,
Regent House,
Rotherham

East Antrim CB Club
Antrim,
N. Ireland.

Eastbourne Breakers Club
Venue: Kingfisher Pub,
Langley Shopping Centre,
Eastbourne

Eastside Breakers Club
Venue: The Silver Moon Club,
Chamberlain road,
Hull.
Every Monday

East Coast Breakers Association
Venue: The RAF Association
Club, Scarborough.
Alternate Tuesdays 8 pm

East Coast Breakers Association
Venue: The Tartan House,
Frating
Nr. Colchester.
Every first Sunday of the
month

East Coast Breakers Club
Venue: The Queens Head
Great Clacton

East Coast Citizens Band Club
Ireland

East London Breakers Club
Canning town,
London

Eastbourne Breakers club
Venue: Kings Country Club,
Eastbourne.
Alternate Sundays 7.30 pm

Eastern Counties Open Channel Club
Venue: Everards Hotel,
Bury St Edmunds.
One Sunday a month

Eccles Breakers Association
Venue: Unicorn Pub,
Peel Green, Eccles,
Greater Manchester

Echo Alpha Citizens Band Radio Club
East Antrim,
N. Ireland

Edinburgh CB Radio Club
Venue: Fountain Inn,
Bernton, Edinburgh,
Scotland.
Every second Wednesday.
Contact: Jim Martin,
22 Ross Gardens
Edinburgh,
Scotland.

Elite Breakers Club
Venue: The Windmill
Public House,
Lambeth High Street,
London Se1.
Every Wednesday

Elite Breakers Club
Delgany,
Co. Wicklow,
Ireland.

Enfield Breakers Club
Royalty Dance Hall
Evesham,
Kent.
Every Tuesday 8 pm

Essex Citizens Band Club
Contact: 24 Bryony Close
Witham
Essex

Evesham Breakers Club
Marine Ballroom,
Evesham, Kent.
Every Tuesday 8 pm

Exeter Breakers Club
Exeter,
Devon

Falkirk and District Open Channel Club
Falkirk,
Scotland

Farnborough Area Breakers
Venue: Oasis Club
Alexander Road,
Farnborough, Hants.
Every Thursday

57 Club
Manchester

First North London Breakers Association
Venue: The Red Lion Pub,
Borehamwood,
Herts

Flixton, Urmston, Davyhulme Good Buddies Association
Contact: P.O. Box 2,
164 Corn Exchange Buildings,
Manchester 4

Forth Valley Breakers Club
Scotland

Foxtrot Charlie SSd DX Trap
Contact: C/O Ray Walton,
83 Penrhyn Road,
Northampton

Four Counties Breakers
Venue: The Crystal Rooms,
Stamford.
Last Friday in the month

Forfar and District Club
Monday 7.30 pm Stag Hotel

Foyle Cross Border Breakers Club
Londonderry,
N. Ireland

Free Breakers
Venue: The New Carlton Club
Raunds,
Nr. Wellingborough,
Northants

Freebreakers Club
Valley,
Anglesey,
N. Wales.
Every Wednesday 8.30 pm

Freedom Breakers International
Contact: 11 June Street,
Bootle,
Liverpool 20

Freewheelers CB Club
Contact C/O 4 Jockey
Cottages, Jockey Hill,
Creditor, Devon.

Friendly Breakers Incorporated F.B.I.
Venue: The Bulldog
Public House,
Ashford, Middlesex.
Every Wednesday

Frog & Nightgown Breakers Club
Contact: C/O Amberwell,
Pottersheath Road,
Welwyn, Herts.

Fugitives Club
Llandudno,
Wales

Furness Breakers Club
Barrow-in-Furness

Garnock Valley Breakers Club
Kilbirnie

Garnock Valley Breakers Club
Kilbirnie

"G Force"
Venue: Malden Manor Pub,
New Malden,
Surrey.
Every Monday

G.B.A Manchester
Venue: the Angles Pub
Gardeners Row,
Sabbden,
Nr. Blackburn

G.C.Club
Venue: Wentworth Arms Hotel
Sheffield Road,
Penistone
Alternate Mondays 8 pm
Glasgow CB Club
Venue: Barlark Primary School
361 Hallhill Road,
Glasgow,
Scotland.
Every second Thursday
Te: 041-771 6149

Glasgow Citizens Band Club
Venue: The Three Pigeons,
Charing Cross,
Glasgow

Gloucester Committee UBA
Venue: Matson Rugby Club,
Gloucester.
Every Wednesday 8 pm

Good Buddies Association
Contact: Bob,
Coronation Service Station,
Middleton Road,
Heywood,
Lancs.

Good Buddies Club
Contact: 6 Wyrehayes Cottage,
Mill of Beath,
Cowdenbeath,
Fife, Scotland.

Goytre & District Breakers Association
Goytre

Grampian Breakers Club
Contact: R. J. Strachan (Sec),
59 Jasmine Terrace,
Aberdeen,
Scotland.

Granite City CB Club
Venue: The Queen's Hotel,
Queens Road.
Every Sunday
Contact: 98 Forest Avenue,
Aberdeen.
Tel: 0224 322073

Grantham Breakers

Grantham,
Notts.

Grantham Breakers Association

Consisting of:
The Original Fifty Grantham Breakers, The Cruiser Club CB, The November Mike Club for Sidebanders.
Contact:
Mr Dave Crossey,
8 Parklands Drive,
Harlaxton,
Grantham, Lincoln

Grass Court Breakers club

Venue: The Waggon & Horses,
Haydock,
St Helens, Lancs.
Every Sunday

Greater Easterhouse Breakers Club

Contact: J. Prow,
133 Lochend Road,
Easterhouse,
Glasgow G34 0CW,
Scotland.

Greater Glasgow Breakers

Contact: Bob Snell,
71 Glenett Street,
Glasgow,
Scotland

Grimsby Law Breakers

Venue: The Dolphin Hotel, Cleethorpes.
alternate Thursday 7 pm - 11 pm

Guildford City Breakers

Venue: The Cannon,
Portsmouth Road,
Guildford, Surrey
Every Tuesday

Gwent Breakers Club

Venue: The Gladiator,
Malpas,
Newport, Gwent.
Every Thursday 7.30

Gwynedd Breakers Club

Contact: 8 Trinity Square,
Llandudno,
Gwynedd, Wales

Harbour Breakers Club

Venue: Harbour Tavern,
Transit Road,
Newhaven,
Sussex.
Every Wednesday

Harpenden Breakers Club

Venue: The Old Bell
Luton Road,
Harpenden.
Every Tuesday 8 pm

Hart of England Citizens Band Club

Contact: The Secretary,
C/O Mr G. Elund,
59 Barbridge Road,
Bulkington,
Nr. Nuneaton,
Warwickshire

Hartsville CB Club

Contact D. S. Alched,
C/O Conservative Club
Chapel End,
Nuneaton

Hastings Breakers

Contact: Kevin Jones
C/O 958 Marina Street,
St Leonards On Sea,
Sussex.

Hat Town Breakers Club

Contact: C/O 120 Coleshill
Road, Atherstone,
Warwick.

Hawker City Breakers Club

Venue: The Grey Horse,
Hawker City,
Haswell,
Co. Durham.
Every Tuesday

Haying Island Listening Club

Havant, hants.

Hazard County Breakers Club

Venue:
The Brewery,
Kendal,
Cumbria

Hazzard County Cb Club

Penmaenmawr,
N. Wales

Heavy Load Breakers Association

Huytuo Area,
Liverpool

Helens Bay Citizens Band Radio Club

Venue: The Sands Hotel,
Bangor,
Co. Down,
Ireland.
Alternate Sunday 8-10 pm

Hemel Hempstead Breakers Club

Hemel Hempstead

Hereford 1.4 Club

Venue: The Crystal Rooms,
Hereford
Every Monday 8 pm

Herts CBA,

Contact: 190 Blythway,
Welwyn Garden City,
Herts.

Hexham Breakers Club

Westmoreland

Highland Breakers Club

P.O. Box 39,
Inverness,
Scotland

The Hillbillies

Venue: The Friend at Hand
West Wycombe Road,
High Wycombe, Bucks.
Every Friday

Hillingdon Breakers Club

Venue Hillingdon Football
Club
Hillingdon,
Middlesex
Every Wednesday

Hinckley Breakers Club

Contact: 8 Gladstone Close,
Swallows Green,
Hinckley, Leics

Holbrooks Breakers Club

Contact: 90 Roland Avenue,
Coventry,
Warks

Holly Town Breakers Club

Bristol

Hope Valley Breakers

Derbyshire
Contact: "Bambi",
Tel. Hope Valley 30294

Hucknell Welfare Breakers Club

Venue: Hucknall and Linby
Miners Welfare,
Portland Road,
Hucknall,
Nottingham.

Independent Top Valley Breakers Club

Venue: Brestwood Lodge
Hotel,
Bestwood Lodge Drive,
Arnold,

Nottingham.

Every Tuesday 7 pm

Independent Breakers Association

Contact 113 Biscot Road,
Luton,
Beds.

Ilkeston Breakers Club

Venue: The Festival Inn,
Trotwell,
Notts.
Every Sunday.
Contact: "Venus" (Sec.),
1 Exbourne Road,
Aspley, Notts.

Inner City Breakers

York

International Dx Breakers Club

Contact: 430 Westwood,
Windmill Hill,
Runcorn, Cheshire

International DX Club

Contact: Lez Carroll,
225 Arnold Street,
bolden,
Tyne and Wear,
NE35 9BA

Invaders Club

Forsfar,
Teesside Area,
Scotland.
Alternate Mondays,
various venues

Iron Girders Breakers Club

Argyll,
Invernesshire,
Scotland

Ironstone Breakers Citizens Band Radio Club

Scunthorpe

Isle of Man CB Club

Contact: J. Dalrymple,
Lower Ballaclucas Farm
Marown,
Isle of Man

Jersey CB Breakers Club

Jersey

Jolly Rodger Club

Central Fife,
Scotland

Journey End Breakers

Contact: C/O Escrick
Social Club,
York

Junior Breakers Club

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First Thursday in the month

K19 Club

Kilmarnock

Kent and Essex Breakers

Venue: Orsett Hall, Orsett,
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West Thurrock,
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Kettering Breakers Club

Venue: The Royal Hotel,
Kettering.
last Monday in the
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Khyber Good Buddies

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Kilkeel Radio Society

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Kingdom Breakers Club

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- Highest quality materials and workmanship
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- Same professional quality materials, designs and workmanship found in A/S police and professional antennas
- Reference for all gain figures — ¼ wave ground plane

NEW

SUPER SCORPION M2000

Features

- Precision machine ground tapered whip has less air resistance and less pattern distortion due to whip bending. Highest quality 17-7 PH stainless steel can be bent full circle and still snap back to perfect vertical!
- True static ball tip for continuous dissipation of wind static build up and less noise!
- Full 60-inch radiator surface for maximum range. VSWR 1.5:1 or better from channels 1 to 40 without tuning.
- Antenna Specialists' LEVERLOK™ quick release. Firm, positive electrical and mechanical connection. Instant disconnect, with the twist of a lever.
- Top grade silver mica transmitting capacitor for consistently lower VSWR under extremes of humidity and temperature.
- Stainless steel shock spring absorbs blows from branches and garage doors.
- Silver-plated phosphorous bronze spring contacts. The superior high frequency efficiency of pure silver. Plus spring contacts assure positive continuity for years.
- Guaranteed satisfaction with 5-year limited warranty PLUS lifetime coil burnout warranty.

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 ... 65"



M2000

NEW CB5000

CB/AM/FM DISGUISE ANTENNA. 5 section locking telescopic. Diplexer pre-tuned. Fine tuning only required. Power rating 50w. (The replacement for the M610).
Plus all the other popular models, MS264, M125, MR440, 'STARDUSTER M400, MIGHT MAGNUM M227 etc.

NEW

'SKINNY MINNIES' ASC 550 . 556

Features

- Available in 7 colours "Skinny Minnie" fibre glass whip, manufactured only by A/S to professional standards for optimum reliability, long life.
- Solid brass connections imbedded in base. Can't break or shake loose.
- True ¼ wave professional design for best possible fibre glass performance.

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.

ORIGINAL TELEPHONE TYPE M.125

World's most copied CB antenna! Standard of the industry, designed and constructed exactly like our lo-band police antennas.

Features

- High-efficiency base load design, with waterproof loading coil and mount for maximum reliability.
- 17-7 PH stainless steel (finest grade available) taper ground for resiliency and low wind resistance. Bends full circle without taking a set.
- Static ball tip for less noise.
- Stainless steel shock spring minimizes damage from obstructions.
- Ample 17' coax cable with attached connector.
- Mounts securely and easily on any flat metal surface. Waterproof design. Requires ¾" hole.

Specifications

Model MR125
Whip 17-7 PH stainless steel, taper ground.
VSWR 1.5:1 or better, channels 1-40.
Cable 17' RG58U coaxial.
Connector PL-259.
Mount ¾" hole mount.
Total Height ... 47"



M-125

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Wintjoy Limited., 103 High Street, Shepperton, Middlesex. 09322-48145

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3. King of the Road



4. Cobra.



5. British Breaker.



6. CB Station.



7. Have A Nice Day.



8. World's Greatest Skip Talker.



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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We can quote for club Tees & Sweats — Please enquire for quote.

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EMBLEMS — CHOOSE FROM Midland, President, Cobra, Turner, Hygain, Lafayette, K40, Avanti, Shakespeare, Firestik, Ham Int., Stalker V. We Monitor Ch9/Ch14/Ch16/Ch19, Break 19, 19 Diesel Mobile, My Daddys A CB Trucker, My Daddy is a CBer, My Mammias A CBer, World's Greatest CBer, Worlds Greatest Skip Talker, Don't Be A Channel Hog, Licensed CB Operator, Super CB Operator, British CBer, Have A Nice Day The CB Way, 78's and 88's Forger 10-36s — Buy a Watch, 10-37 Out of Service, Bet Your Sweet Ass I'm A CBer, What's Your 20, What's Your Handle, Modulate With Me, Mercy Sakes Big Numbers To You, Got The Hammer Down, Beaver Powered, Wanted-Seat Cover Report, Watch For County Mountie, I Run An Alligator Station, Good Buddy, Rubber Duck, New York CB, Breaker That's No Rubber Duck, 10-8, 73's, 3's and 8's, 88's, Keep Smokey Out Of Your Britches, USA-CB Country, CBers Keep The Lipstick Off Your Dipstick, CBers Help The Law, I Operate Barefoot, Ratchet Jaw, No 1 Skip Talker, Watch The Bears, Professional Beaver Hunter, Don't Feed The Bears.

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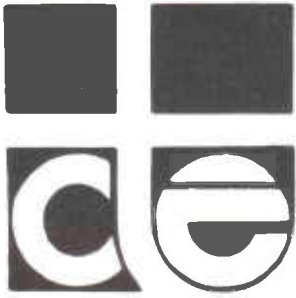
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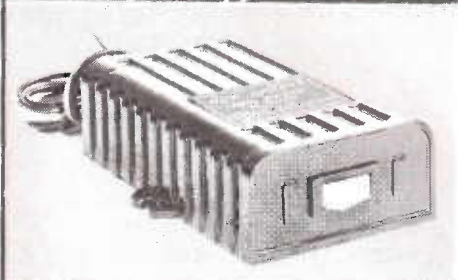
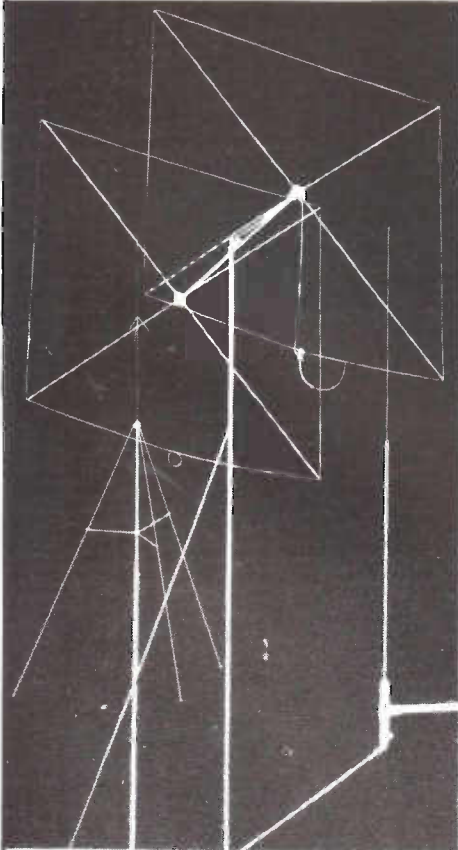


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LEGAL RIGS!

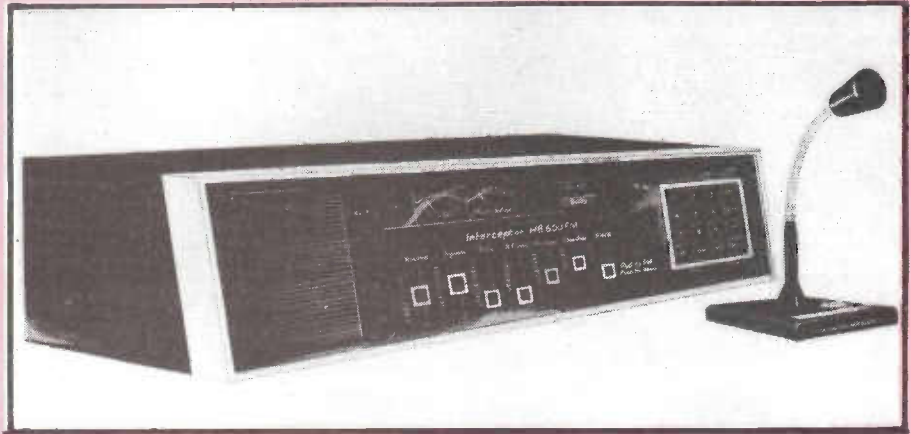
40 Channel FM, more legal rigs, 'Interceptor' and 'Fidelity'.

The specification has been announced and finalised all we need now is a date and that will open the flood gates for a whole assortment of products aimed at the legal CB market. Most of the existing producers of CB rigs and accessories have got FM equipment lined up and ready to sell on the UK market.

NEW DESIGNERS

However with the new specifications along have come new designers and manufacturers of CB transceivers. One of these is the company Chelsea CB Centre, who, although their rigs are put together in the Far East, have designed them in Britain for sale on the UK Market. There are a few rigs in the range each of which will meet the Home Office specifications.

Each of the four rigs (three mobile & one home base) will carry the name Interceptor



and have a built in safety device which will cut out transmissions if the VSWR exceeds 2.5. Anybody who has had a faulty aerial connection or broken aerial

and suffered rig failure as a result will realise the benefit of this invention.

The first rig in the range has an anticipated recommended retail price of approximately £70 and for this you will get a 40 channel FM rig with a manual channel selector and bar information Leds for power and signal readings.

For an extra £25 you can get the next rig in the range. The added features are push button channel select, mike gain, R.F. gain with the rest of the functions of the first rig. A digital clock is also included.

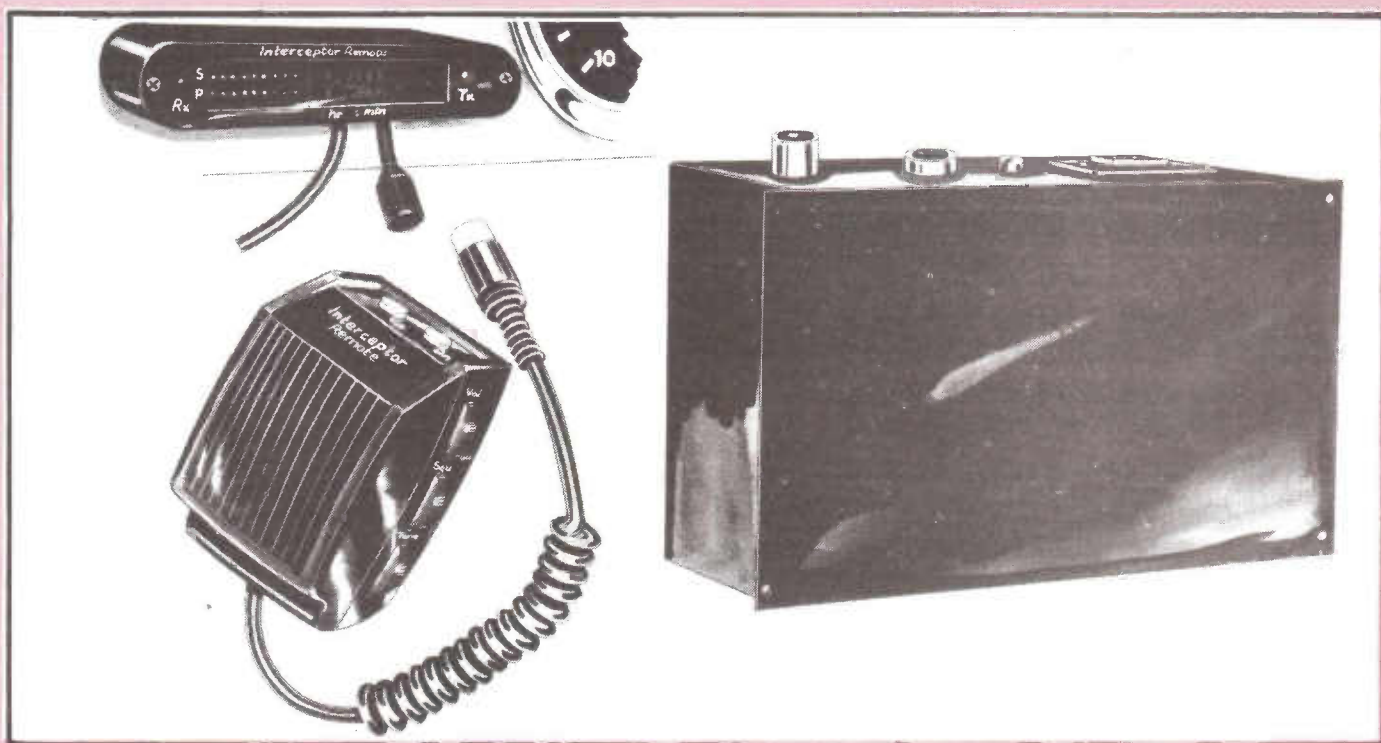
One hander rigs are already in existence in the AM mode but the next rig in the Interceptor range is the first legal FM one that we have come across. Volume squelch tone and channel selector controls are all located on the microphone which connects to a mimic board read out which is fitted to the dash board. The transceiver itself is just a discreet black box which for security reasons can be tucked away in the boot of your vehicle. The one hander will be on sale for about £100.

The Interceptor home base has a built in SWR meter and is supplied complete with a proper home base microphone. The array of controls is vast (exactly what you would expect from a good home base) squelch tone, R.F. Gain, Mike Gain, Clarifier, volume and channel scanning are all included for a recommended price of approx. £180.

All the aforementioned equipment is being developed at the moment and should be ready for UK distribution the minute the legislation date is announced. Chelsea CB



A Fidelity CB 1000 FM, this will retail at £60 and is the first in their range



A One Hander with mimic board for dash mounting and all in the microphone controls.

have plans for an even wider range of products details of which should be with us soon.

So much for the efforts of a relatively small British company and its new products. The market for C.M. CB has been estimated at millions of pounds and it would be foolish for manufacturers to ignore such potential. The next two rigs are being marketed by Fidelity who are having their equipment produced overseas to their requirements. As with many of the rigs intended for Britain, Fidelity have seen the basic design of their rigs elsewhere and have altered them to meet with Home Office specifications. This means a tried and tested piece of equipment with modifications is

being used and consequently should ensure a high quality product.

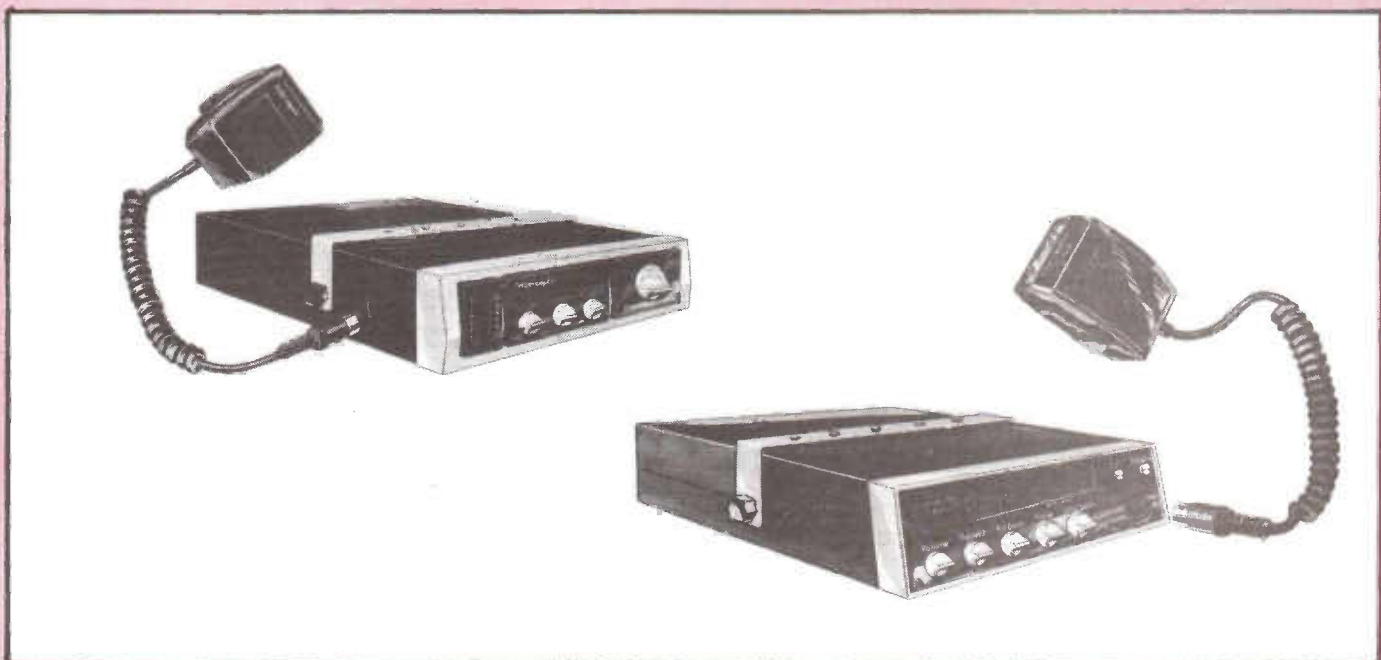
The CB 1000 is a forty channel 27MHz rig with LED channel indicator and a signal strength meter. The anticipated retail price of the first rig in Fidelity range is £60. Obviously controls are incorporated. The microphone is also included in the price.

The Fidelity CB 2000 is designed to retail for £80 which will incorporate the same features as the 1000 with some interesting extras. Rotary tone and R.F. Gain controls, a built in P.A. circuit and extension speaker output. For instant switching to channel 9 Fidelity have incorporated a special selector in case of emergency.

With large companies like Fidelity and Amstrad producing Home Office Spec. rigs, it won't be long before each company is jockeying into position in the high street for retail sales.

Will we see rigs being sold through established CB outlets or will be able to purchase a legal FM CB from a super-market chain, off the shelf next to the cornflakes? When they start being sold look for the Home Office specifications identification marker, which will be the mark of the only rig that you can legally have in your possession.

PCC



(left) The manual change Interceptor with LED signal and power. (right) The more advanced version with remote channel change and digital clock

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- ★ WE CAN GET YOU STARTED
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NOW THE **Ferroline 27** ~ CB RADIO

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COMPLIES «.....with
 Home Office CB Radio
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* The FERROLINE 27 is a free-space resonant half-wave.
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* Double adjustment for VSWR and tuneable 27 to 28 MHz.

* Stainless steel radiating elements and fully weatherproofed.

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* Low self-resistance ensures highest possible efficiency.

* Standard 50 ohm impedance. Suitable for all CB transceivers FM, AM
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-- AND IT'S BRITISH MADE --

NOTE: Only genuine 'FERROLINE 27' mobile antennas carry the registered trade name
 'BIG JIM' and are factory tested for performance.

Price (UK only) £29.00.
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CB at Peterborough

Country and Western Meets British CB.

Apart from the betrothal and marriage of the best publicised couple in history and a day off into the bargain, the rest of the summer looks pretty boring.

That is until 28th. August when C.B. radio goes country at what promises to be the biggest FREE eyeball ever to take place. The event is the Peterborough Festival of Country Music, which will take place over the August Bank Holiday weekend at the Embankment, Peterborough.

Country Music! I hear you cry 'what has that got to do with CB. Historically both country music and CB originated from the States and have enjoyed close links for some time. The trucker (as in mile long lorries with lots of wheels) has always listened to country style music on his radio and with the advent of CB the two interests didn't take long to merge. Nearly all the CB music that has been produced stateside contains a country flavour to cater for this merge of interest. At last this new 'art form' has reached the shore of Blighty (better late than never) and with the release of Teddy Bear, a recorded offering by the late Red Savine, CB and country music have now been bought firmly to the attention of the public.

Last year's Festival of Country Music was a mixture of events. The main attraction being a big top style tent in which country music stars from all over the world performed to packed audiences. The embankment in Peterborough is a large open space on the side of a river which is very picturesque. Surrounding the big tent were various side shows and stalls selling all sorts of projects from cowboy hats to double glazing with a funfair, a swimming pool, childrens play area, a real festival atmosphere prevailed.

This year the festival director and country music star Jed Ford, has decided to include CB trade stands in the show ground thus widening the general appeal of the whole proceedings. By this stage in the year the government should have decided on a date for legislation and consequently with the specification already released the Peterborough Country Music Festival & CB Eyeball should be the first event, at which legal rigs and all types of accessories could be seen.

CB Radio Magazine is helping to promote the CB aspect of this event and we will have a stand in the trade area. Although one obviously has to pay to see the country music acts performing as I mentioned before entrance to the eyeball is totally free of charge. With all the same amenities arranged as last year with the provisional addition of 2 bucking bronco machines, refreshment areas and CB goodies it will be

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FRI 28 to MON 31 AUGUST 1981

Thanks for: CB TRADE FAIRS in conjunction with CB RADIO

Evening 28th August 7:00 pm
FRANK FIELD, The Cotton Mill Boys (Ireland), Kevin Henderson's Country Band, Peter Powell & The Goodtimes, Barbary Coast, Keith Pearson & New Traculo Line, The Cockshott Mary & The Haymakers, The Reason Roadshow

Afternoon 29th August 2:00 pm
Cotton Mill Boys (Ireland), CLODAGH ROGERS & JEDDA ROAD, Jimmy Lawton (U.S.A.), Gary Blackmore Band, Neil Pennington Band, Cliff Ledger & The Country Barn, Spinning Wheel, Jimmy Payne's Sounds Country, Pat Judge & Country Style '78.

Evening 29th August 7:30 pm
Cotton Mill Boys (Ireland), PHOENIX (Ireland), Gailie Horne (Ireland), Frank Vance & The Everglades, Miss Meane & The Rag Rats, Billy Thompson & Stage Coach, Keith Mandall, Tony Ben & The Lark Area Band Show, J. Taylor

Evening 30th August 7:00 pm
Cotton Mill Boys (Ireland), PHOENIX (Ireland), Gailie Horne (Ireland), Frank Vance & The Everglades, Miss Meane & The Rag Rats, Billy Thompson & Stage Coach, Keith Mandall, Tony Ben & The Lark Area Band Show, J. Taylor

Evening 31st August 7:00 pm
Cotton Mill Boys (Ireland), PHOENIX (Ireland), Gailie Horne (Ireland), Frank Vance & The Everglades, Miss Meane & The Rag Rats, Billy Thompson & Stage Coach, Keith Mandall, Tony Ben & The Lark Area Band Show, J. Taylor

PERFORMANCE	Date	Part No	No. Tickets	Price	CHILDREN under 12	TOTAL
FRIDAY Evening 28th	1	4.50	2.00			
SATURDAY Afternoon 29th	2	3.50	1.00			
Evening 29th	3	4.50	2.00			
Day 29th	2 & 3	2.00	3.00			
SUNDAY Afternoon 30th	4	3.50	1.00			
Evening 30th	4	4.50	2.00			
Day 30th	4 & 5	2.00	3.00			
Evening 31st	6	3.50	1.00			
Day 31st	7	4.50	2.00			
Evening 31st	8 & 7	2.00	3.00			
A DAY OF SEVEN PERFORMANCES						20.00
TOTAL COST OF TICKETS						10.00
LESS 10% for party booking of 30 people and over						
Total cost of tickets less discount if applicable						
PROGRAMME VOUCHER Not required @ £1.00 each						
NOTE: No change @ £1.00 per night and no cash						
TOTAL MONEY SENT WITH ORDER						

an event that should appeal to all sections of the family. Just think of being able to jaw all day (four days if you like) while the wife and kids go off swimming or to the fair. The showground is so close to the city centre that a shopping expedition will be possible as well.

Sing a Song of CB

This is a song writing contest directly related to the Peterborough Festival of Country Music. C.B.C.M. music have arranged this contest to find a new CB song in a country style which offers a recording contract as the first prize to the lucky winner. The last 3 songs will be performed live at the festival by a professional country artiste. If you are a budding song writer turn to the full page advertisement 'Sing a Song of CB' and fill in the form.

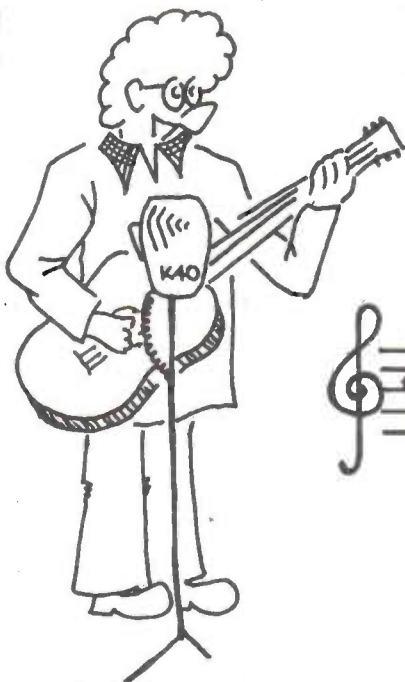
A whole range of CB distributors have already booked stands at the Peterborough Festival and at the moment these include tee-shirt printers CB rig and accessory dealers, badge makers etc. Judging by the bookings coming in so far at least 40 different stands representing the whole spectrum of CB should be there.

Whether you come for the CB, the Country Music, or just a day out with a difference do come to the CB Radio Magazine stand and say hello.

ROC

**NATIONWIDE
SONGWRITING CONTEST!**

CB TRADE FAIRS <small>In conjunction with</small>	
CB RADIO	
PETERBOROUGH FESTIVAL OF COUNTRY MUSIC	
CBCM MUSIC	



**SING A
SONG OF**



CB TRADE FAIRS AND CB RADIO IN CONJUNCTION WITH PETERBOROUGH FESTIVAL OF COUNTRY MUSIC ANNOUNCE A NATIONWIDE SONGWRITING CONTEST TO FIND A NEW CB SONG WITH A STRONG COUNTRY MUSIC STYLE

RECORDING
CONTRACT

for the winner!

POSSIBLE
TV SHOWING

The three highest placed entries will be performed by professional musicians at the Peterborough Festival of Country Music in August. The outright winner will be awarded a recording contract and the song will probably be televised by Anglia TV.

ENTRIES MUST BE SUNG (WITH OR WITHOUT ACCOMPANIMENT) AND CLEARLY RECORDED ON A STANDARD C60 CASSETTE WHICH IS NON-RETURNABLE. A WRITTEN COPY OF THE LYRICS MUST BE INCLUDED WITH THE TAPE. THE ENTRY FEE IS £1.50 AND YOU MUST USE THE ENTRY FORM BELOW.

AMATEUR AND PROFESSIONAL SONGWRITERS — THIS

CB Trade Fairs, P.O. Box 117,
Peterborough PE2 9DN

COULD BE THE **BIG** ONE!

DETACH HERE

USE THIS ENTRY FORM

I ENCLOSE MY ENTRY FOR THE 1981 SING A SONG OF CB CONTEST. MY TITLE FOR THE SONG (WHICH YOU MAY/MAY NOT* CHANGE) IS MY NAME IS

MY ADDRESS IS TEL. NO.

I ENCLOSE A CHEQUE/PO* FOR £1.50 PAYABLE TO CB TRADE FAIRS TO COVER PROCESSING OF MY TAPE WHICH I CANNOT HAVE BACK. MY SIGNATURE ON THE BOTTOM OF THIS FORM INDICATES THAT I HAVE READ THE RULES BELOW AND UNDERSTAND THAT THEY APPLY TO ME AND MY SONG. THESE RULES CANNOT BE ALTERED BY EITHER PARTY.

RULES OF ENTRY:

1. THE THREE WINNING ENTRIES WILL BE PERFORMED AT THE 1981 peterborough festival of country music 28-31 AUGUST.
2. THE OUTRIGHT WINNER WILL HAVE HIS/HER SONG RECORDED AND RELEASED BY BUFFALO RECORDS AS A 45RPM SINGLE PLAY.
3. ALL ENTRANTS AGREE TO PAY CBCM MUSIC OR IT'S ASSOCIATES A ROYALTY EQUIVALENT TO 10% GROSS EARNINGS FOR A PERIOD OF 12 MONTHS COMMENCING 26.8.81 IN RESPECT OF ANY INCOME DIRECTLY OR INDIRECTLY RECEIVED AS A RESULT OF THE PUBLICATION, RECORDING, LICENSING, PERFORMANCE OR BROADCASTING OF THE SONG OR MUSIC COMPRISING THIS ENTRY.
4. THE ORGANISERS WILL APPOINT A PANEL OF JUDGES, AT LEAST ONE OF WHOM WILL BE A PROFESSIONAL WORKING MUSICIAN, TO DECIDE THE WINNERS. THE JUDGES DECISIONS WILL BE FINAL.
5. WINNING ENTRIES WILL BE PUBLISHED IN THE OCTOBER EDITION OF CB RADIO.

I HAVE READ THESE RULES AND AGREE TO THEM. Signed Date

*DELETE WHICHEVER DOESN'T APPLY

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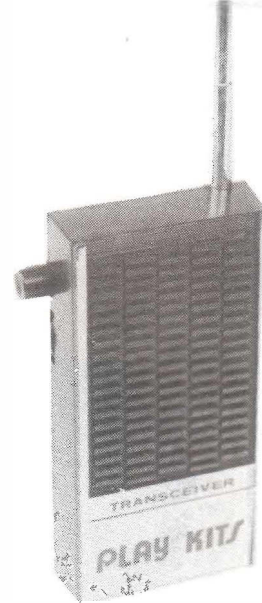
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CB Radio Project Kits



A Walkie Talkie, an SWR Meter and an Antenna Matcher.

Three totally different kits, one of which you must not build!

During the last year we have continually received requests for more coverage of Walkie Talkies and in particular how to build one. Well, firstly we must point out that to build a 27MHz transceiver is an offence. You can however part build or assemble the item. Keep it non operable ie (minus the crystal), legally take it abroad and use it in any country that allows transmission on AM CB. One can then remove the crystal and legally re-enter Britain, thus keeping the Walkie Talkie inoperable until your next holiday!

Walkie Talkie KT 631

The KT is a small compact transceiver that offers a range of around 400 to 500 yards depending on the conditions. It operates on the 27 MHz band, is of lower power (but illegal here in Britain).

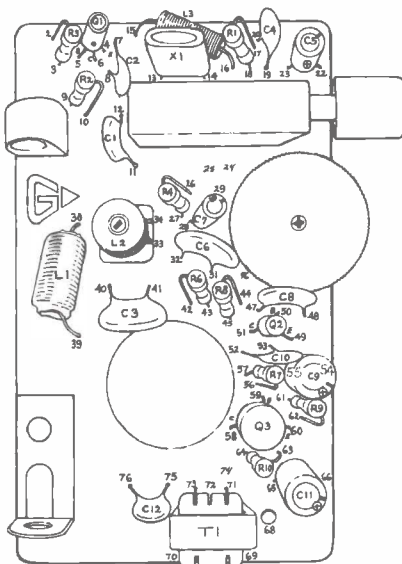
The following details are not to be taken as instructions to build, they are merely an example of how such a transceiver is constructed.

THE RECEIVER SECTION

The receiver section consists of three parts, an ultra regenerating detector, a first stage audio amplifier and an audio power amplifier. The ultra regenerating detector is a special circuit with excellent sensitivity and is used to separate the audio signal from the radio frequency signal. This procedure is called detection or demodulation. One part of the audio signal comes back through the input of the transistor Q1 in such a way that it produces a back signal in the output of this stage. (This is called ultra reaction). The audio signal then goes through the first stage amplifier where it is amplified by the transistor Q3 (power amplifying stage) which creates a high level of power for the loudspeaker.

THE TRANSMITTER SECTION

The transmitter section also consists of three stages: first stage amplifier, audio amplifier and modulator. When the loudspeaker is spoken into it generates a small electrical signal which is amplified and transmitted. It is initially amplified by transistor Q2 in the first audio stage and then by transistor Q3. This stage gives a large enough signal to modulate the radio



Layout of Components

frequency generated by X1, Q1. (Modulation is a combination of a radio frequency signal with an audio frequency signal so that signal can be transmitted.) The frequency of the walkie talkie is maintained at a high level of stability by the use of a quartz crystal X1.

The way they're built

The KT Walkie Talkie uses a printed circuit board as a base for putting the components together. The upper side of the p.c. board (without copper) has numbers printed next to every hole for locating the correct positions. All of the components are inserted from the upper side of the board keeping the leads as short as possible. After inserting a component the wire ends are bent over slightly, this holds it in position while its being soldered. With the transistors and other delicate items heat is applied just enough to give a good joint, too much for too long burns out the component.

With any kit always:

Lay out all the components on a piece of paper and pushing the wire ends through to hold them in place. Mark underneath each component its number and value eg: R1 300 ohm., C1 10 p.f. etc.

The resistors R1 to R4 and R6 to R10 have their value printed on the inside (see figures in booklet enclosed in kit). These resistors would be fitted as follows:

- a) R1 300 Ohm (Orange-Black-Brown) holes 17 and 18
- b) R2 39KOhm (orange-white-orange) holes 9 and 10
- c) R3 4.7KOhm (yellow-violet-red) holes 2 and 3
- d) R4 680 Ohm (blue-grey-brown) holes 26 and 27
- e) R6 5 KOhm (green-black-red) holes 42 and 43
- f) R7 8.2 KOhm (grey-red-red) holes 56 and 57
- g) R8 82KOhm (grey-red-orange) holes 44 and 45
- h) R9 52Ohm (green-red-black) holes 61 and 62
- i) R10 100 Ohm (brown-black-brown) holes 63 and 64
- j) All the resistors would then be put into place, then all the ends would be soldered on the copper plated side of the printed circuit, including the solder tags of the potentiometer. Then the excess ends would be cut off.

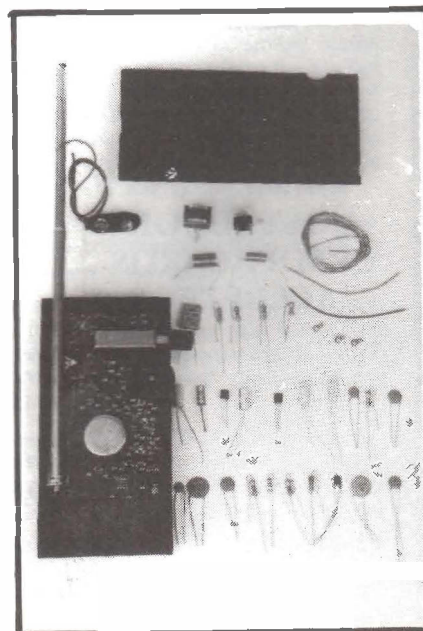


Photo showing contents of kit.

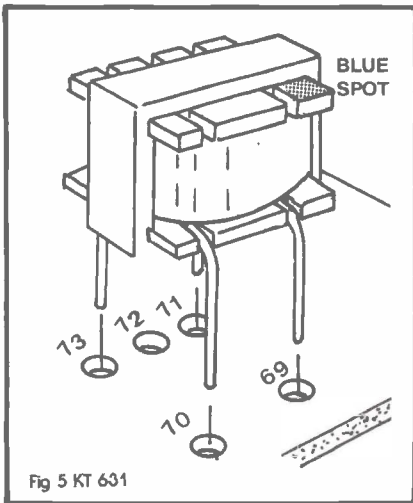


Fig 5 KT 631

- i) C9 50UF electrolytic, the positive terminal (+) hole 54, the negative terminal (-) hole 55.
- j) C10 0.02uf holes 52 and 53
- k) C11 50uf electrolytic, the positive terminal (+) hole 66 the negative terminal (-) hole 65
- i) C12 0.01 uf holes 75 and 76

m) It is normal practice to check the position of all the capacitors, one would also take account of the polarity of the capacitors C5-C7-C9-C11, all the ends would then need soldering carefully to the copper plated side of the printed circuit. The excess ends would also be cut off.

The ends of coil L2 into holes 33, 34, 35, 36 and 37 (figure 4). Solder would once again hold all the ends on the copper plated side of the printed circuit. The ends of the transformer T1 into holes 69, 70, 71, 72 and 73 (fig. 5). Solder should again hold all the ends to the ends to the printed circuit. The excess ends would be removed. (Figure 6) would identify the terminals of the transistors. Hold the transistors about 6-7 mm above the printed circuit, put in the transistors Q1-Q2-Q3 as follows:

The capacitors C1 to C12 would then be placed (see fig. 2)

- a) C1 10 p.f. holes 11 and 12
- b) C2 30 p.f. holes 7 and 8
- c) C3 0.04 UF holes 40 and 41
- d) C4 0.002 uf holes 19 and 20
- e) C5 5 uf electrolytic, the positive terminal (+) hole 22, the negative terminal (-) hole 23. (To identify the terminals one would refer to figure 3) enclosed in kit.
- f) C6 0.04 uf holes 31 and 32
- g) C7 1uf electrolytic, the positive terminal (+) hole 29, the negative terminal (-) hole 28.
- h) C8 0.02 uf holes 47 and 48

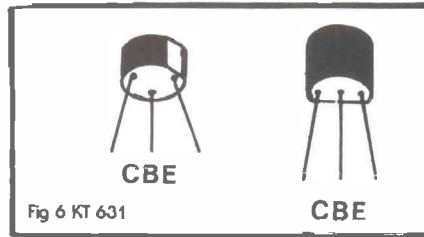


Fig 6 KT 631

- a) Q1: the terminal of the emitter in hole 4, the terminal of the base in hole 5 and the terminal of the collector in hole 6.
- b) Q2: The terminal of the emitter in hole 49, the terminal of the base in hole 50 and the terminal of the collector in hole 51.
- c) Q3: The terminal of the emitter in hole 60, the terminal of the base in hole 59 and the terminal of the collector in hole 58.

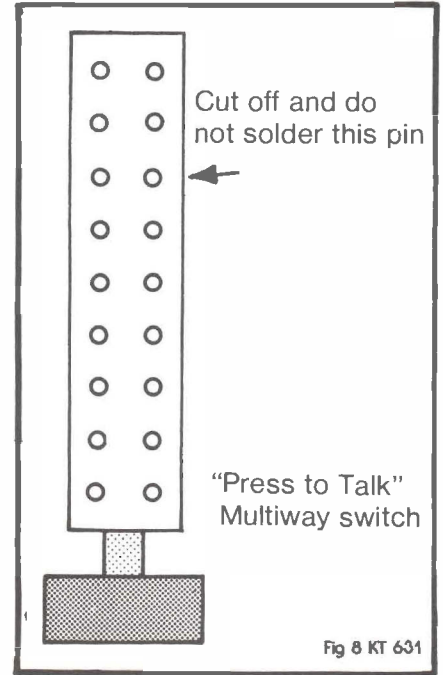
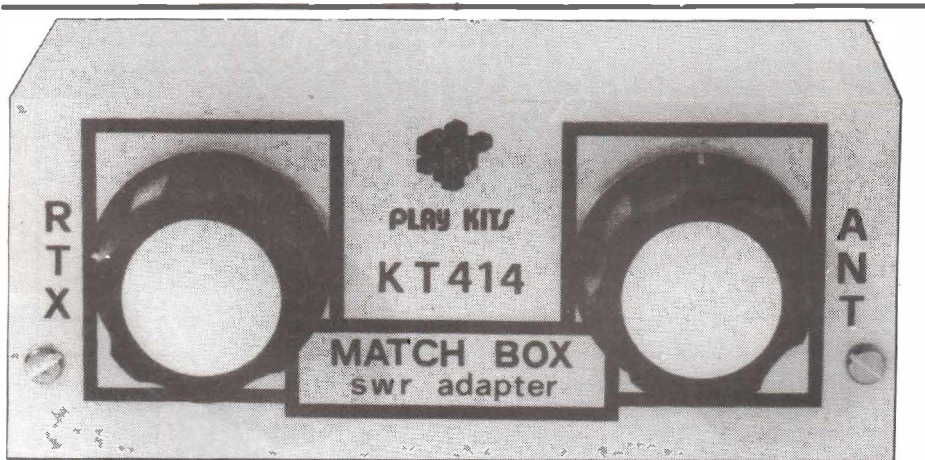


Fig 8 KT 631



At this point in time we must stop. It is an offence to construct this item into a condition where it will transmit if power is supplied. With this particular kit it is not possible to assemble the receive section only as this works through the transmit crystal therefore we have enclosed the construction and testing details in the kit, which is available mail order (NOT LICENSABLE IN THE UK). Rest of diags. in kit.

KT 414 Antenna Tuner/Matcher

Frequency 27MHz
Maximum Transmit power 100w

Got an antenna with a bad SWR? Worried about blowing your rig? Well this kit is a complete set of parts for a 27MHz antenna tuner/matcher.

When assembled it is inserted into the coax leading from the antenna to the rig (see fig. 1).

With the KT14 in place, as shown, an antenna with a not so good SWR (possibly terminally painful to your rig) can be tuned to a much better match. Now, with a base antenna 40ft up on your chimney pot its got to be easier to twiddle the knobs on the antenna matcher to achieve a better SWR than to shin up towards the heavens with a hacksaw. If you think so too then reach for your cheque book and very soon you can.

Assemble in the following order:

1. Check the components supplied against the list, fig. 2.
2. Clean the paint off from around the

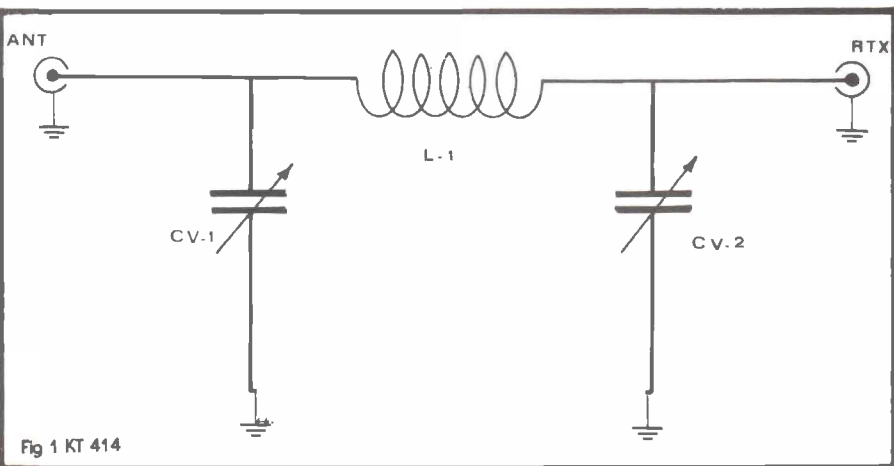
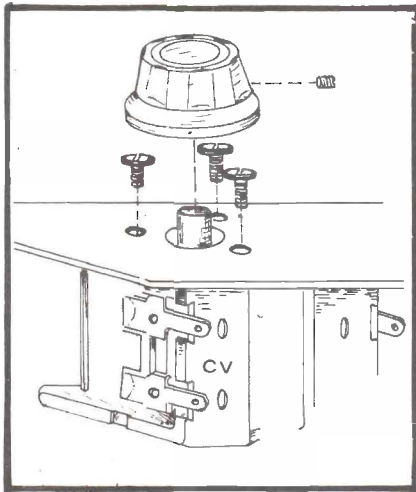


Fig 1 KT 414

CB Radio Project Kits

PLAY KITS
UK EXCLUSIVE



holes where components are fitted so that they can make good electrical contact with the metal case.

- 3 Fit the SO/239 sockets into the holes as in fig. 3 and fix them in place with the nuts and bolts provided.
- 4 Fit the two variable capacitors C.V.1 and C.V.2 into the appropriate holes and fix in place with the six 3mm x 5mm bolts, see fig 4 (don't forget to locate and fit the front plate).
- 5 The coil (L) is fitted and soldered between the two SO/239 sockets as in fig. 3. To make this coil wind 4 turns of the 1.5mm silvered wire on a 17mm former with a space of about 4mm between each spiral. (I didn't have a 17mm former either, so I used a piece of $\frac{5}{8}$ " dowel). The exact diameter of the

KT 416 SWR Meter

Frequency : from 1 to 50MHz
Impedance : 52 ohm
Accuracy : 5%
Max TX power : 150 watts

Trying out a new antenna and not getting out too well? Could be you've got a bad SWR. The cheapest way to check is to borrow someone else's SWR meter, but with a modest outlay and a little handywork you could have a good one of your own. Then with an SWR meter always to hand or even permanently in the coax line you can tell at a glance if your rig is likely to expire because of a high SWR. This can be caused by a variety of reasons, some of which are:

- 1) PL/259 plugs badly soldered
- 2) Coax broken (usually where it goes into the plugs)
- 3) Badly tuned antenna
- 4) Transmitting too far away from the frequency the antenna was tuned or intended for (With 1200 channel rigs

List of Components

Quantity	Description
2	Variable capacitors
1	Metal case
2	Knobs
2	SO/239 sockets
4	3mm x 8mm bolts
4	3mm nuts
6	3mm x 5mm bolts
4	Self tapping screws
1	Length of silvered wire 1.5mm
1	Length of solder
4	Felt feet
1	RTX adhesive label
1	ANT adhesive label
1	Printed front plate

coil isn't critical as long as it's fairly close to the given dimensions.

6. Fit and solder the pieces of wire from the terminal tags on the side of the variable capacitors to the SO/239 sockets as in fig. 3.
7. Before fitting the cover check that none of the coil spirals or connecting wires are touching the case or variable capacitor frames.

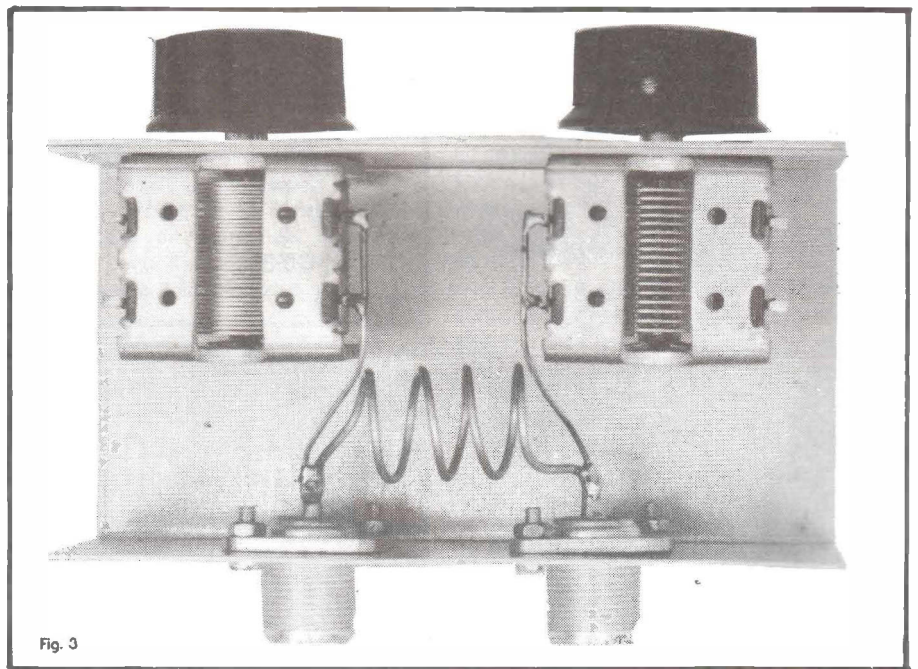


Fig. 3

this can be very easily done unless the antenna you have is very 'broadband'.

- 5) Not enough ground plane under the antenna eg: a DV27 on a biscuit tin 'base antenna'.

Before going on to assembling the kit perhaps a short explanation of SWR (Standing Wave Ratio) is needed.

When the mike is keyed the rig switches from 'receive' to 'transmit' and the rig produces R.F. (radio waves). The R.F. is fed to the antenna via the o coax where, if the antenna is correctly tuned, the vast majority of the R.F. is radiated. If however the antenna is a bad match (incorrectly tuned) the R.F. goes up the coax and into the antenna, where instead of it all being radiated a proportion is reflected back down the antenna and coax and sets up 'standing waves'. The amount of standing waves is expressed as a ratio eg: 1.5 to 1, 2 to 1, 3 to 1 etc. If this ratio is too high, enough power is reflected back to over

- 8 Fit and tighten the knobs onto the variable spindles. Set the pointers for vertical when the variable capacitor vanes are about half meshed.
- 9 Sit back and admire your handywork before . . .

Testing it

For testing an antenna two patch leads and an SWR meter are needed. Fit them all together as in fig. 1. Switch on the rig and adjust both knobs for the maximum receive signal, first one, then the other, till the received signal won't peak any further. This is to adjust the matcher into roughly the right settings before you try to transmit. Switch the rig to a channel that's not being used and key the mike and take an SWR reading. Again, by adjusting both knobs on the matcher, tune the antenna for the minimum SWR reading. It's quite a good idea to put a felt tip pen mark on the front panel to record the optimum settings for that particular antenna if an XYL doing the dusting or children are likely to adjust the settings.

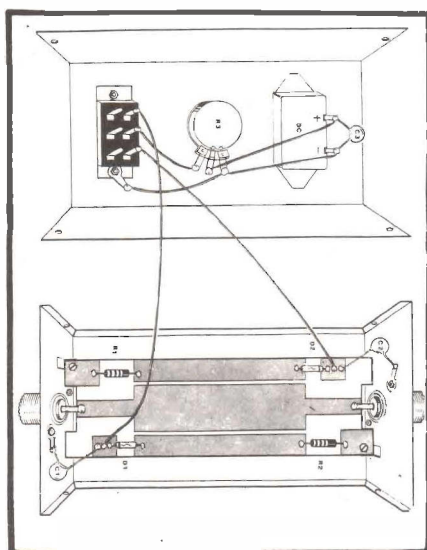
heat and burn out the R.F. output transistors. For maximum efficiency the SWR should be as close as possible to 1:1, though in practice the rig probably won't get too unhappy if the SWR reading is below 2:1 anything much above this and the antenna is well out of tune and putting your rig at risk. With an SWR meter 'in line' the standing wave ratio for an antenna can be read at a glance and any necessary adjustments made.

Assemble the kit in the following order:

- 1) Check the components supplied against the list.
- 2) Clean the paint off from around the holes where the sockets and witch are bolted to the metal case. This is so they can make good electrical contact when fitted.
- 3) Using two of the longer bolts fit one of the SO/239 sockets to the case. Only tighten the nuts a little and don't forget the solder tag, fig. 3.
- 4) Fit the other SO/239 socket in the

List of Components

Quantity	Description
1	Metal case
R1	100 Ohm resistor
R2	100 Ohm resistor
R3	Potentiometer 10 KOhm
D1	Diode OA91
D2	Dic de OA91
C1	Capacitor 1000 pf
C2	Capacitor 1000 pf
C3	Capacitor 100 pf
C3	Capacitor 1000 pf
2	SO/239 sockets
1	Switch
1	Meter 300 UA
1	Knob
4	Felt feet
1	Printed circuit board
1	Length of solder
4	Self tapping screws
4	Bolts 3mm x 5mm
4	Bolts 3mm x 8mm
8	Nuts 3mm
3	Solder tags
50cm	Connecting wire
1	Adhesive front panel



- same way.
- Put in and fix the printed circuit board with two of the shorter nuts and bolts.
 - Tighten the nuts and bolts on the SO/239 sockets and solder the centre pins to the printed circuit board.
 - Solder the rest of the components to the printed circuit board. Make sure the diodes are fitted the right way round as in fig. 3, with the black band on the diode nearest to the small copper square.
 - Fit the meter, potentiometer and switch in the lid and wire up as in fig. 3, keeping the connecting wires as short as possible. The meter is supplied with a sticky pad to hold it in place. Although a little glue around its outside edge will probably secure it better.
 - Fix the two halves together with the self-tapping screws.

- Peel the sticky felt feet off the backing and affix to the bottom of the case. The kit is now finished and ready for trying out.

Using the meter

- To check an antenna's SWR, connect the meter to the rig with a short patch lead as shown in fig. 4.
- Turn on the rig and switch to a vacant channel as near to the centre of band as possible (Ch. 20).
- Key the mike to transmit and turn the SWR meter adjusting knob until the meter needle is in the centre of the infinity sign (∞). Still keying the mike, push the switch to the reflected position (Rev) and the SWR can be read from the meter scale. If the SWR is unacceptably high refer to the antenna

manufacturer's instructions for details of adjustment.

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Please send me.....Single/Pairs.....KT 631 (Walkie Talkie/s) Play Kits at £5.75 each, plus 95p p&p each. or (£9.50 a pair plus £1.40p p&p)

and.....KT 414 Antenna Matcher, Play Kits at £7.95 each plus 95p p&p.

and.....KT 416 SWR Meter, Play Kits at £5.75 each plus 95p p&p.

postage on both kits KT 414 & KT 416 £1.40p or all three kits. pair or single Walkies £1.75.

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The number of items ordered is.....

Please allow 21 days for delivery.

Name.....

Address.....

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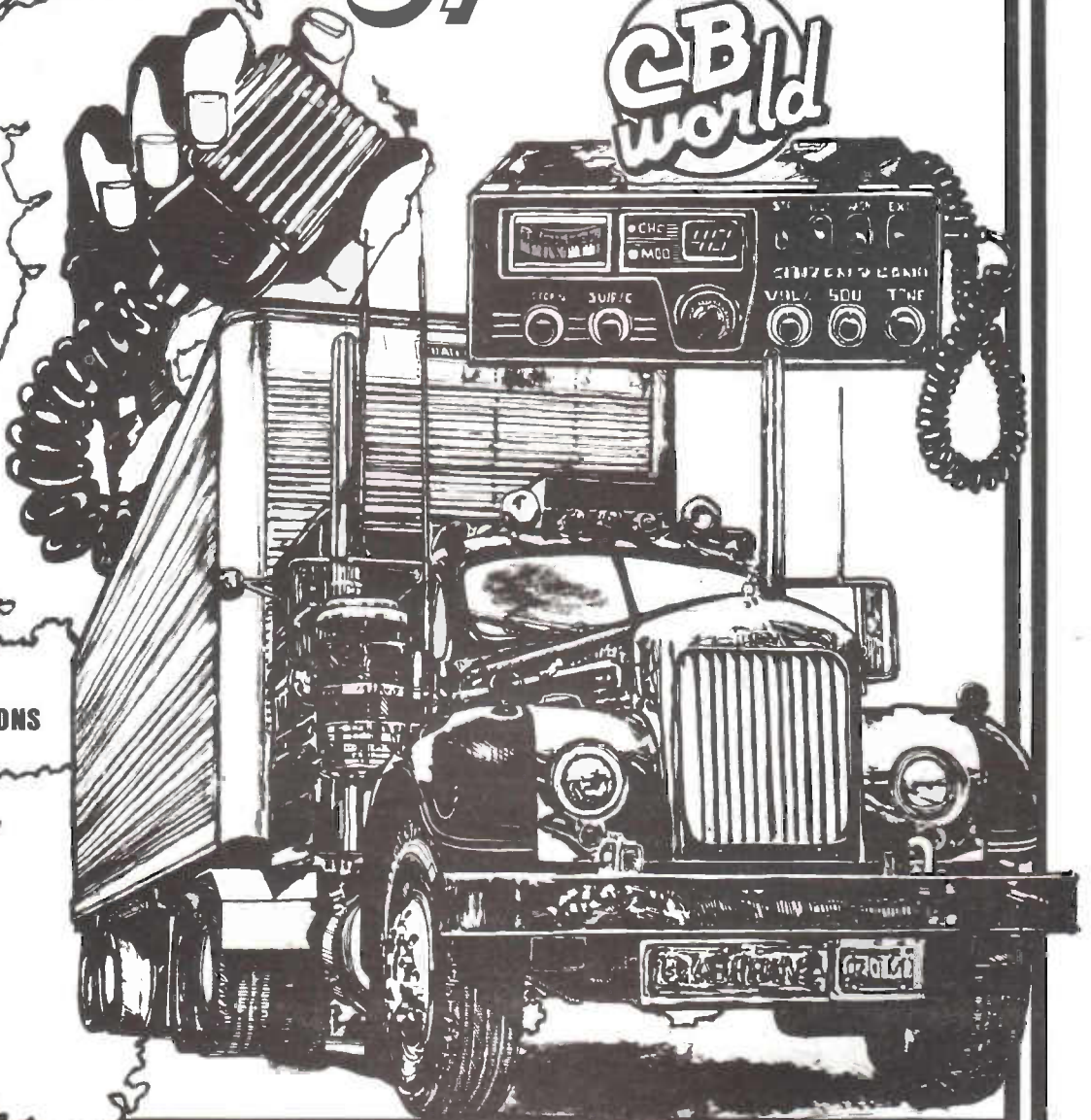
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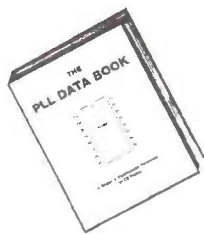
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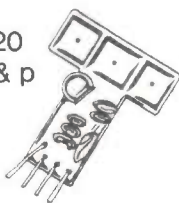
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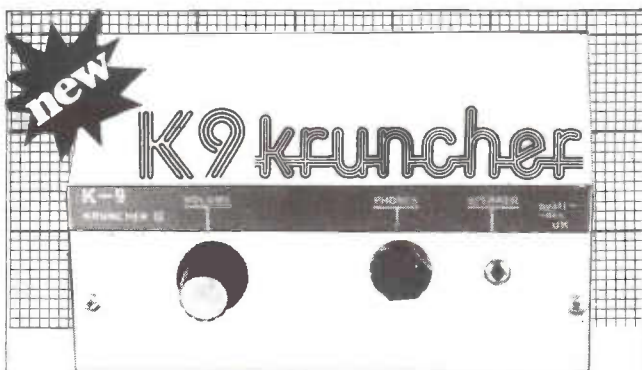
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To: SkyLab CB, 2c Keighley Road, Crossflatts, Bingley, W. Yorks.

While I still have my hearing and sanity intact, please send me (write in quantity) K-9 Krunchers. I enclose cheque/P.O. for £21.45 (£19.95 plus £1.50 post & pkg) per unit.

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Come Back the Breaker

Get a legal copy on a fellow breaker!

Help! Big Six Club

On Saturday 14th March 1981, my car was parked on the Old Crash & Cushion park, Perry Barr, Birmingham, and sometime between 2.00 pm - 4.00 pm some highly intelligent member of the community decided to wreck the driver's door window, and in the process took a fancy to my Midland 150m 120AM/FM rig. After carefully removing it (ripping out most of the dash in the process) they made off.

Oh, well, I thought, better start saving up the green shields for another rig.

Last weekend, however, a good buddy of mine, informed me that whilst modulating he had heard of a breaker who had actually witnessed the event. Unfortunately my good buddy didn't catch the breaker's handle but did earwig that he was a member of The Big Six CB Club somewhere in the Black Country.

I've tried to find the club's 20 but have had no luck so I'd be over the moon if anyone could give me this information and even better if the breaker who witnessed the event could give me further details of the car that the no no's made off in. At the moment I know the make, model, year and colour but not all of the plate so I'm anxious to find the number.

Here's hoping for a quick come back.
all the high numbers.

LIQUIDATOR.

Dear M. Nicklin:

After reading of your friends unfortunate position regarding his Super Star 120 in the June 81 issue of 'CB Radio' I am writing to inform you that Campbell Electronics Ltd., of Telford, Shropshire, do stock the TA7222 audio output i.c. at £4.07p. Their address is: Campbell Electronics Ltd., Unit 5/6 Heath Hill Estate, Dawley, Telford, Shropshire. Tel. Telford 502422 or Telford 502447.

Yours sincerely,

G. COWAN.

Scottish QSO

I wonder if I could ask for your help via your "Come Back the Breakers" feature? On Sunday 7th June 1981 I had several SSB contacts with Ireland, Cornwall and Scotland. A little later (about 4.25 pm) I heard two Scottish voices on AM coming very strong via the skip. I went in "Breaker on the side" and eventually got through. I gave my handle (Skydiver) and first name (Kelvin) and also my location as near

Cambridge. The breaker came back with his handle which I did not hear. However, I did hear him tell me that his name was Alan and that he was in or near Edinburgh. At this point the changed and we lost contact.

I would like you to print this so that if Alan reads this he can contact me so that I can send him some confirmation of the QSO. I think you will agree that this kind of contact on AM is a little unusual.

Many thanks.

KEVIN LAW

Thank You Wagon and Wheel Breakers

I would like to express my thanks (through the pages of your magazine) to the "Wagon Wheel Breakers" of Leyland lanes for the most enjoyable evening I spent at their club. As a visitor from Scotland I was made most welcome and introduced to countless breakers by Baby Driver (whom I had copied two months previously on superslab 6). I was in my truck reading The Mail when I heard a shout for Baby Driver. Thinking it unlikely that it would be the same one that I had previously copied I got in on the side and was surprised to find that it was.

We arranged an eyeball and he invited me to the club where as I have said before I had a most enjoyable time. I will go down now so best wishes to Baby Driver, Pussycat, Badger, Whiskey Lady, Diamond, Space Station, Jersey Lady, Big Spender, Cossack and Axle Bender.

Yours,

HOBO

Tragic Death

Recently our daughter, known as Summit Lady, died due to what can only be described as a horrific car smash. From that day we, her family, were overwhelmed by the concern and kindness shown us by CB'ers who had either known her personally or copied her at sometime.

She was a nurse, and almost immediately they opened a Fund for a guide dog for a blind person in memory of Summit Lady. It has now exceeded £500 donated by them and other personal friends.

Because of their action and generosity, the chairman of the local branch of the Guide Dogs for the Blind Association has recently informed us that there will soon be — and here I quote — "a very fine dog for some lucky person", a German Shepherd dog nearing the end of his training period.

It is hoped that in this way we can say to

all those CB'ers who donated, "Our heartfelt thanks and gratitude especially on behalf of that "LUcky Person" whoever he or she will be.

Yours sincerely,

PENNY LANOWSKA (Mrs)

Thanks Susie Q

Through your magazine we would like to say a very big thank you to the W.L.B.C. and Susie Q in particular for arranging our outing to the Alfred Beck Centre to see the film Convoy, which was thoroughly enjoyed by the whole family.

BIG DADDY AND TITMOUSE

P.S. Congratulations to the Best CB Magazine one year old. Keep up the good work.

Windsor 20-27 Club

Elephants, tigers, the occasional killer whale were all present at the first meeting of the Windsor 20-27 club at their new venue. No they don't meet in the darkest Africa, but just down the road from HM Queen's country house at Windsor Safari Park.

The 20-27 club was formed in January of this year and in the course of 19 weeks have outgrown their initial venue because of ever increasing membership. The restaurant at Windsor Safari Park is a large building on two levels overlooking the park and the surrounding countryside of Berkshire. Sounds ideal doesn't it, well it was apart from the never ending queue to get to the bar.

The Windsor 20-27 Club meets every Wednesday night and attractions include a disco, a raffle with "very interesting" prizes, an accessories stand run by Minder and his mate, a general club information stand and Animal (yes, that's his real handle) personalising sweatshirts.

New members are always welcome to attend (and join), membership costs £1 which entitles you to a membership card and wallet, stickets, a free news letter and lots more. Why not pop along and look for yourself, we did and had a splendid time (hic).

P.S. The Windsor club have been doing so well they are opening a sister club in chertsey. Being just as ambitious they are hiring the Mountbatten Pavillion at Thorpe Park Leisure Complex on Monday evenings 7.30-10.30. their grand opening night features Mike Allen, the DJ, and should launch the Chertsey 20-27 club on the same road to success.

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Come Back the Breaker

Custom Car Show

The Eccles Breakers have organised a Custom Car Exhibition and Show that is to be held on Saturday, August 29th, at the Princes Cinema, Morton, Eccles, Manchester. The fun starts at 10 p.m. and consists of a Custom Car section, Classic Car section and a Breakers Car section. The Eccles Breakers are hoping to raise £1,000 for Ladywell Hospital. Tickets are £1.20 each and are available from:

The Village Gallery, Monton Green, Monton, Eccles, Manchester. Tel: 061-789 8730.

This is A 10.33

At 0815 at an Army Base near Bicester the Thames Valley Police and the Ministry of Defence Police paid a visit. Could the Army help search for a young girl aged 14 who was missing from her home nearby. She was in urgent need of medical attention and had been missing since 2 am. A local breaker (who shall be nameless) offered to act as co-ordinator for the local breakers. A not so blind eye was turned and within 15 minutes five local breakers had arrived in their wrappers. After a briefing areas were allocated and the hunt was on (Oh, you naughty people I didn't know so

many monitored channel 09). The idea was to support the Army as a back up in the local area. Within minutes breakers were calling for a 9 on the 10.33 for a full description and they were allocated areas to call on farms and search woods, each had a passenger riding shotgun. Copies started coming in 10.1 from 15 miles away so a breaker was sent to high ground to act as a relay. In the first hour breakers had been contacted in Witney, Oxford, Banbury and Aylesbury.

Then we had a 10.5 from Adderbury, a girl fitting that description had been sighted. The Smokeys were told on the land line and a jam sandwich was de-patched. A call was put out via the relay to the Banbury 20 to keep an eye open.

Radio Oxford somehow got hold of the story and broadcast the good news, she had been found at 11.45 alive and well. By breakers? A big thank you was put out to all the breakers who were mobile and all the base stations without whom we couldn't have got out as far as we did. (How far did we reach? Did I detect an American accent in there somewhere?) I think it would be unfair to name any one breaker in any case we didn't use handles but through our magazine I would like to thank you all. I haven't eyeballed her yet but I will. I don't

wish a 10.33 on anyone but for a few hours it gave us breakers a chance to prove ourselves.

Yours sincerely,
SEARCH CO-ORDINATOR

'Blow Out' Help!

I would like to thank, through your publication, for the help I received, following a high speed "blow-out" on the M56 Motorway the other week, from fellow breakers.

The "blow-out" caused my vehicle to turn through a 360 degree and when the car came to rest I was eyeballed by a trucker, Black Shadow, who enquired after my health and allowed me to manouver onto the hard shoulder.

BLACK SHADOW and another trucker, JETRANGER, changed my wheel for me whilst TREBLE SEVEN, driving a Mickey Mouse, supplied me with hot sweet tea.

My sincerest thanks to all these breakers and to the two "Smokies" who ignored my chattering chicken box, for all the help they gave me.

DAVID G. C. HICKS
Status Quo XXth Legion Breakers
P.S. I believe C.B. is a major contribution towards road safety.

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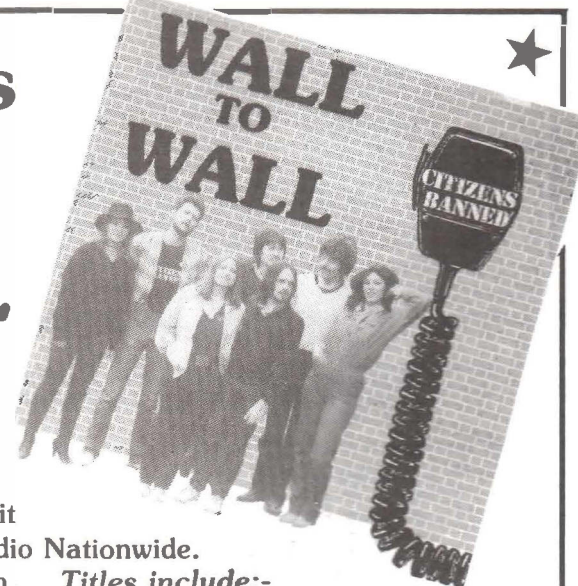
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THE LAW AND YOU

More advice on how not to be arrested for obstruction. "Mobile".

Firstly we have the peculiar task of trying to withdraw what we said last month as regards verification of police officers. We said: "One point worth thinking about in primary identification of supposed officials is their method of transport. Even the most enterprising con men rarely arrive in a marked police vehicle and carry two-way police radios!" Yes, you guessed it! At present the CID in Wales are searching for two men who wear police uniform, carry two-way radios and use a white Rover with a detachable police sign, reportedly a fake custom officer has also been seen in their company.

For all we know the next thing could be carrying forged search warrants and the like, assuming of course that they don't already, so in all honesty we would strongly advise calling the local police the moment anyone official either "genuine" or "fake" arrives on your doorstep. My, what a wonderful world, isn't it comforting to know you can trust a uniform?

Authorities? stop you mobile

Unless you happen to have a radio telephone when you are stopped mobile, then I am afraid you're on your own as regards verification of authority.

If and when stopped mobile the first and most important thing to establish is "why"

you were stopped. It is always a good idea and psychologically advantageous to get out of your vehicle. Approach the police officer and say politely "Excuse me, officer, may I ask why you have stopped me?"

This is a question which he is duty bound to answer, the officers answer must be firm and precise. Do not accept a "Don't you know" answer, this has often lead to admission by motorists ie: "Well, I suppose I was speeding." Such confessions are admissible in court. Instead repeat your question firmly but politely. If the officer's reply is along the lines of a motoring offence then you should initially talk, answer or deal with questions only on the "offence" ie: his/her reason for stopping you (remember that you must supply your name and address if asked). To offer advice on such a varied possibility of circumstances would be impossible and impractical nor can we honestly say that there are explicit codes of practice that will cover the average motoring offence.

However as most readers are interested in how they would stand if stopped and in possession of a CB, then a very loose guide would be that "ethically" if you were stopped for a steering fault then it would be reasonable to assume the officer will require access to the steering wheel: if stopped for a faulty brake light, it would also be reasonable to assume that one of two officers would require access.

However if stopped for a faulty number plate light, then obviously access to your vehicle would not be essential.

In all cases where a police officer has gained entry to a motor vehicle he/she should in theory concentrate on the reason for access. Therefore if a rig should happen to be staring him in the face, he will and is empowered to either: **Arrest you under section 138 of the 1979 Customs and Excise Management Act, providing that he has reasonable grounds to assume that you are suspected of committing any offence for which you are liable to be detained under the Customs and Excise Acts. OR: Stop and search any vehicle where there are reasonable grounds for suspecting a vehicle is carrying goods that are either:**

- 1) chargeable for duty on which duty has not been paid, or
- 2) liable to forfeiture under the Customs and Excise Acts, or Detain the equipment under section 139 of the Customs and Management Act 1979.

If whilst checking a valid item of your vehicle (having originally stopped you for a motoring offence) the officer then broaches the subject of searching your vehicle casually ie: "You don't mind if I look around inside, do you?" You are within your rights to refuse, unless the officer gives you sufficient grounds to search. This applied to CB, would be something like this: "I have reason to believe that you have a CB Radio which I further believe to be contraband and therefore I intend to search and detain your equipment if found."

The only possible argument you, as an individual, can raise in preventing a Stop and Search, Arrest and/or Detention of equipment, is to question (politely) "reasonable grounds to believe", although it could be advisable to ask "what reasonable grounds the officer has" before allowing a search.

In any instance where you do challenge an officer, always take great care not to encite an "obstruction" charge.

CB RADIO MAGAZINE FACT FILE

Help others by supplying solicitors with the information they need to fight a CB related case. If you were taken to court let us know where, when, charges, and the result.

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Court Date

Charges

Result

Details of fines etc.

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Parliamentary Review



This month both the House of Commons and the House of Lords have been buzzing with questions relating to CB Radio and the interference and other problems associated with its use within the UK. One problem that is quite clearly bound to be a major point of discussion, is that of ensuring that the Home Office specification is stuck to rigidly by all users of Citizens Band radio in this country and that anyone failing to do so will have to pay a high penalty. For more details read on:

Open Channel Radio

Mr Campbell-Savours asked the Secretary of State for the Home Department whether information required for the purposes of personal licensing of citizens band radio equipment can include details of the equipment manufacturers serial number.

Mr Raison: Recording each individual piece of equipment and keeping track of ownership would make unacceptable demands on staff and resources. The CB licence will therefore only require the holder to use equipment which conforms with the appropriate Home Office Specification.

Mr Campbell-Savours asked the Secretary of State for the Home Department whether the Government propose to license approved importers of citizens band radio equipment.

Mr Timothy Raison: No.

Open Channel Radio

Mr Campbell-Savours asked the Secretary of State for the Home Department whether he will make arrangements to liaise closely with the potential importers and domestic manufacturers on the distribution of Home Office approved citizens band radio equipment to the United Kingdom.

Mr Raison: We are satisfied that existing arrangements for consultation with interested parties on matters relating to citizens' band radio are generally adequate; but the actual distribution of equipment which meets our specifications is not a matter for the Home Office.

Penalties

Mr Campbell-Savours asked the Secretary of State for the Home Department (1) what penalty he is considering introducing to ensure that importers of approved citizens band radio equipment comply with Home Office specifications.

(2) what arrangements the Government are making to ensure that imported citizens band radio equipment meets the specifications laid down by the Home Department.

Mr Raison: The manufacture or importation of 27 MHz radio-telephonic equipment will be permitted only if it conforms to the relevant specification, and meets the interference limits laid down in regulations. Manufacture or importation of equipment which does not conform to the specification will constitute, as now, an offence under wireless telegraphy legislation; and imported equipment will be liable to seizure and forfeiture as prohibited goods under the Customs and Excise Act 1952. It will be open to the Home Secretary to issue a notice under section 12 of the Wireless Telegraphy Act 1949 banning the sale of equipment which fails to meet the prescribed interference standards.

Mr Raison: In order to comply with the specifications issued by my Department, equipment will need to carry a clear indication of its type number and name of manufacturer. A mark stamped or engraved on the front panel will indicate compliance with the relevant specification, and we would expect this marking to be carried out at the time of manufacture.

Mr Campbell-Savours asked the Secretary of State for the Home Department whether arrangements being made to ensure that imported citizens band radio equipment meets specifications laid down by the Home Department include regular sample inspection procedures of import shipments at the point of entry.

Mr Raison: It would not be feasible to arrange such technical inspections. However, this equipment will be subject to normal Customs examination procedures and if there were grounds to suspect that equipment marked as complying with the Home Office specification did not in fact meet it, the goods would be detained pending technical inspection.

120Pocket Radiophones

Mr Cryer asked the Secretary of State for the Home Department if he will take action against users of unlicensed pocket radiophones; and if he will make a statement.

Mr Raison: The Post Office, acting as our agent in this field, does what it can to detect unlicensed radio transmitters of all descriptions. Its first priority is, however, to take action against those illicit activities which are a source of interference to authorised radio services.

Refusing IC's ?

Mr. Campbell-Savours asked the Secretary of State for Trade whether he has any evidence that Japanese manufacturers of integrated circuitry that complies with the new Home Office specifications for citizens' band radio equipment are refusing to export that equipment and are insisting that such circuitry can only be part of completed citizens' band sets for export as such.

Mr Parkinson: I will reply to the hon. Member as soon as possible.

Conversions?

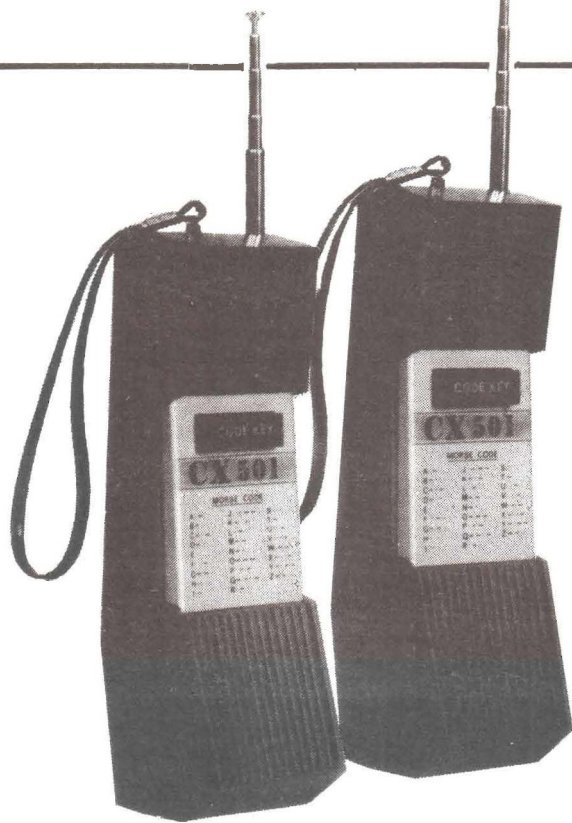
Mr. Campbell-Savours asked the Secretary of State for the Home Department if he has any further consideration to the representations he has received on the conversion of existing citizens band radio equipment to FM; and if he will make a statement.

Mr. Raison: Citizens band apparatus for the authorised service to be introduced in the autumn will have to conform to the technical standards embodied in the relevant Home Office specifications. Provided that these are met, there is no objection in principle to the use of converted citizens band radio equipment.

Mr Campbell-Savours: With more than one third of a million illegal sets in circulation in the United Kingdom, should not the Home Secretary and the Minister of State intervene to ensure that public oney is made available to British manufacturers so that conversion equipment is available? Does the Minister accept that if he fails to do so that there will be massive imports later this year of legal or conversion equipment?

Mr. Raison: A number of manufacturers already stated their intention to produce CB equipment in Britain. Several testing and development licences have been issued to British companies.

More information next month....



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SPEAK OUT



Personal Radio-Which Way to Turn - S.R. Broadbent.

Many hundreds of thousands of people have, apparently, already taken the decision which is causing me a considerable amount of worry. I want to have a personal two-way radio in my car, and in my home, but the problem is which waveband should I choose.

My only firm criterion being that whatever I do eventually buy and operate must be 100% legal.

The most suitable waveband for me can be easily reduced to a choice between two or three simply by considering what I want the radio for:

I want to chat, with the minimum amount of fuss, to similarly equipped apparatus about nothing in particular and anything in general. I want to be able to say variations on the same theme ie;....Here I am.....I'm on the motorway-....I am lost...any traffic information....please assist... /there's been an accident/I'll be home in half an hour' And I want to be a pretty good chance of there being sufficient people listening to me to be able to have a good chat.

As I see it these needs reduce me to two basic choices, 144 MHz 'Ham' radio or 'CB'. There seems to be plenty of traffic on 144 MHz so I'm likely to get an answer to my call and the level of the conversation seems reasonably intelligent if a little too technical and a little low on social chat. But the regulations are far too numerous. I have a licence to operate a radio in an aircraft and have the authority to operate a ground based 'ground-air' radio transmitter. To use either of these I did not need any technical knowledge about radio whatsoever. Therefore if I don't need technical knowledge to operate an aircraft's radio, why should I need one for a car radio.

Why take an exam?

I have a technical degree and a technical career so I wouldn't expect any problems learning but why should I have to before I can operate a radio. Technical knowledge or a licence does seem sensible for the old days, when amateur radios were generally home-built, but nowadays I am sure that I and others would learn as we went along, out of interest and because it is a hobby. especially now that 'Ham' radios are as mass produced as TV's there is no need for an exam.

The airwaves are for all to use, not the exclusive privileged of a certain 'set'. So although I'm not dim and am confident of my ability to easily learn enough to pass the Ham exam the very fact that an (unnecessary) technical exam is mandatory and the highly onerous list of things you can't say on 144 MHz -(I'm not talking about merely keeping to common decencies) preclude my going in for 'Ham' radio.

My Choice

That leaves me with 27MHz CB. But which 27MHz. It must be 100% legal, so that precludes AM. But, according to a lot of opinions voiced on CB Radio, people are not going to change, just because the government say 'FM'. So if I get a newly legalised FM set will I be on my own. The problem is I believe confused even further because FM is legal on the continent and is on a totally different part of the band to our NEW 27FM.

There are so many users of the 'continental standard' 27MHz band already that if I stay 100% legal will I be on my own. Now just to confuse matters, I read that the government, is considering allocating more FM channels to be compatible with continental users 'later' (this I must confess came from a local newspaper but as with all speculation it could be.)

So I'm stuck with the 'New' 27MHz FM and perhaps gradually people will join me. Or will I immediately be invaded by current AM users, if this does happen then it appears that I will have to learn a new language. Present CB enthusiasts seem hell-bent on using American slang in some form of great adulation of the great USA almost as if the very words coined the potency of a six shooter. If I'm talking to someone on CB and he's using the slang words I don't know, he might as well be talking Serbo-Croat for the good it will do our conversation.

Why can't we have an ordinary personal **two-way** radio systems using ordinary everyday ENGLISH and available to everyone and no I am not going to suggest 934 MHz.

The present image of the CB **user** in his big wheeled Cortina MK2 on 40 channels **AM causes** ordinary people to shy away from what **should** be freely available to everyone. The image is **coming**, the style is wrong and the attitude (27MHz AM and **stuff** the government) is wrong and getting the CB **industry**, with its huge potential nowhere. For me **the only answer** until things really settle down is to **keep on listening** to Radio 2 and singing to myself!

S.R. Broadbent
Stockport, Cheshire.

Speak out is a spot for you our readers to have your say. Because CB is still a highly emotive subject we must stress that as a Magazine the views expressed are not our own. We do not necessarily agree nor disagree. We will simply print your views unbiasedly regardless of whether they are for or against Citizens Band Communications or any of its facets. JOH

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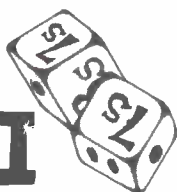
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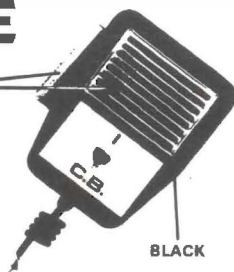
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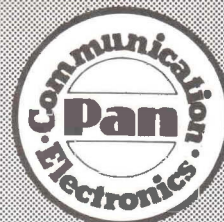
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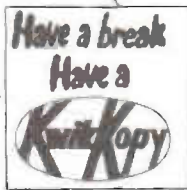
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Rig Test

REALISTIC®

Realistic TRC-428 Nine Scan

Radio Shack's transceivers are sold under the Realistic mark, and for almost the entire modern age of CB "The Shack" has marketed a broad spectrum of models, ranging in both price and performance from "very cheap" to "very best". (As a general rule, the CBER always gets his money's worth.) Many of the Realistic CB transceivers are "sleepers", superb performers at a reasonable price that never receives the credit they deserve.

One such model is the TRC-428 Nine Scan, a 40-channel mobile AM "scanning" transceiver requiring a power source of 12 to 16 VDC. Since there is no direct connection between the power supply and the transceiver's cabinet the power source can have a negative or positive ground (earth).

Overall dimensions are 55mm H x 175 mm W x 245mm D. Weight is 1.7kg. Standard accessories include a plug-in PTT (push-to-talk) microphone, power cables, and a detachable mobile

Test Results	
Receiver:	
Input sensitivity for 10-dB S N/N	0.3 μ V
Worse-case adjacent channel rejection	65 dB
AGC range for 80 dB input range	6 dB
Input level for S9 meter indication	60 μ V
S-unit value	Relative (non-calibrated)
Transmitter:	
RF output/50 ohms	4.0 watts
Modulation capable of 85%	YES
Relative sensitivity for 85% modulation	-40 dB
Modulation limited to 100%	YES
(Note. Test results are from signals synthesised to be the equivalent of those common to actual CB operations.)	

mounting . . . the familiar U-bracket for under-dash transceiver installation. Each end of the bracket is secured by a

cap-screw that permits a moderate degree of up-down tilting of the transceiver.





The unusual, possibly outstanding feature—the Channel 9 scan, which is controlled by a three-position front panel selector. When the selector is set to its OUT position the TRC-428 functions as a standard 40 channel transceiver. When set to SCAN the transmitter remains on the selected channel, but the receiver automatically sweeps between the manually selected channel and channel 9 and locks to the channel that first comes “alive”. The

receiver remains tuned to the channel as long as it's in use. The scan automatically resumes when the channel is released (no carrier) and the receiver is squelched to silence; again, it will stop on the first channel on which it senses a carrier.

If the channel 9 emergency channel comes alive the CBER can instantly lock both the receiver and transmitter to channel 9 by moving the SCAN selector

to a third position labelled CHANNEL 9. When this switch is returned to its OUT position the receiver and transmitter both return to the channel indicated by the main channel selector.

Other features are more or less standard for high-performance equipments. These include: a combination meter that indicates received signal strength, RF output power and the antenna system SWR; both a noise limiter and a side-chain RF noise blanker; external and P.A. (public address) speaker output jacks; either the microphone signal or CB receiver output to the P.A. speaker; front panel channel 9 and modulation indicator lamps; and a tone control, which is really a high frequency “cut”.

The front panel is divided horizontally into two sections. Across the top from left to right are: the S/RF/SWR meter; the SWR or S/RF meter selector switch; the ANL or ANL with noise blanker selector; the CB or microphone output selector for the P.A. speaker; a selector for the internal speaker, the external (remote) speaker or both together; the channel 9 SCAN selector; an LED digital channel indicator; and the channel 9 and modulation LED indicators. Across the bottom from left to right are: concentric volume and RF gain controls; the squelch control; the SWR calibration control; a tone control; and the channel selector.

The rear apron has a standard UHF coaxial antenna connector and jacks for the external and P.A. speakers. The internal speaker is on the bottom, facing downwards; the most commonly used location.

Though the TRC-428 is basically a more or less standard AM transceiver with notable performance, its channel 9 scan and CB monitor through a speaker outside the vehicle (specifically the P.A. speaker) make it an attractive choice for the Breaker involved in “emergency service” or REACT operations

Radio Shack TRC-428 Manufacturers Specifications

GENERAL

FCC: All transmitter and receiver specifications required by the FCC have been met or exceeded

Dimensions: 55mm H x 175mm W x 245mm D

Weight: 1.7 kg.

Power Source: 12 to 16 VDC

Frequency Range: 26.965 MHz to 27.405 MHz

Microphone: Plug in dynamic

Antenna Connector: SO-239 (UHF)

TRANSMITTER

RF Power Output: 4 watts nominal

Modulation Capability: 90% - 95%

Frequency Accuracy: 0.002% nominal

Spurious radiation and Harmonic content: 70-dB nominal

Hum and noise level: 40dB below max. modulation

RECEIVER

Sensitivity: 0.5 uV worse case

Adjacent Channel Rejection: 60 dB worse case at 10k Hz

AGC Figure of Merit at 50 mV Input: 95 dB nominal

Total IF rejection ratio: 85 dB nominal

P.A. Power Output: 7watts maximum

Tone control at 2000 Hz: 10 dB

RF Gain Control at S/N 10 dB sens level: 46 dB

Current consumption, no signal: 250 mA

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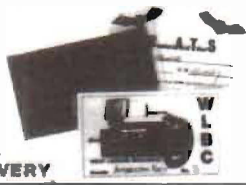
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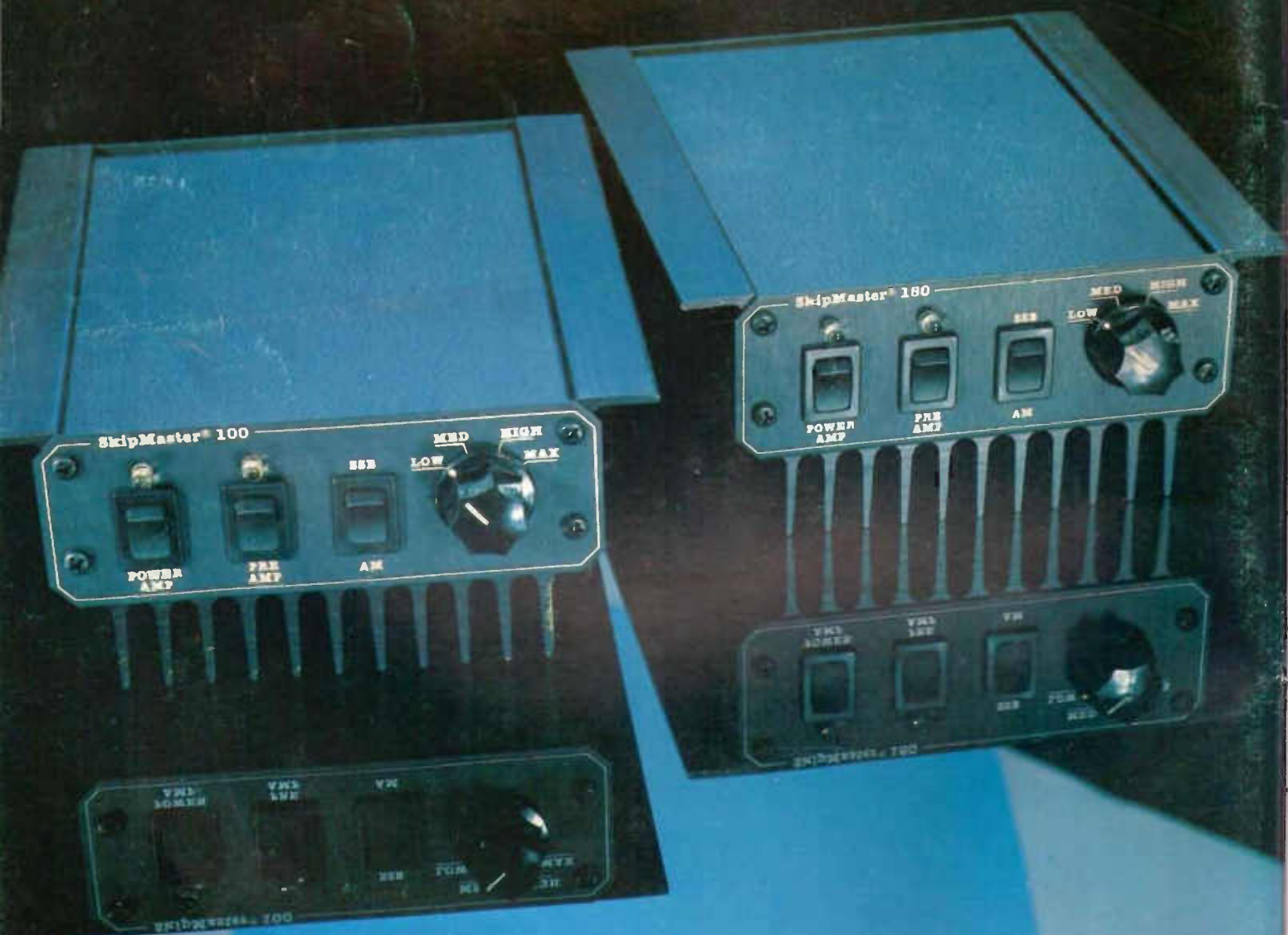
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