

AUGUST 1981

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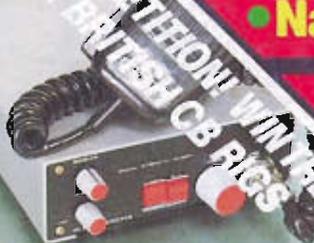
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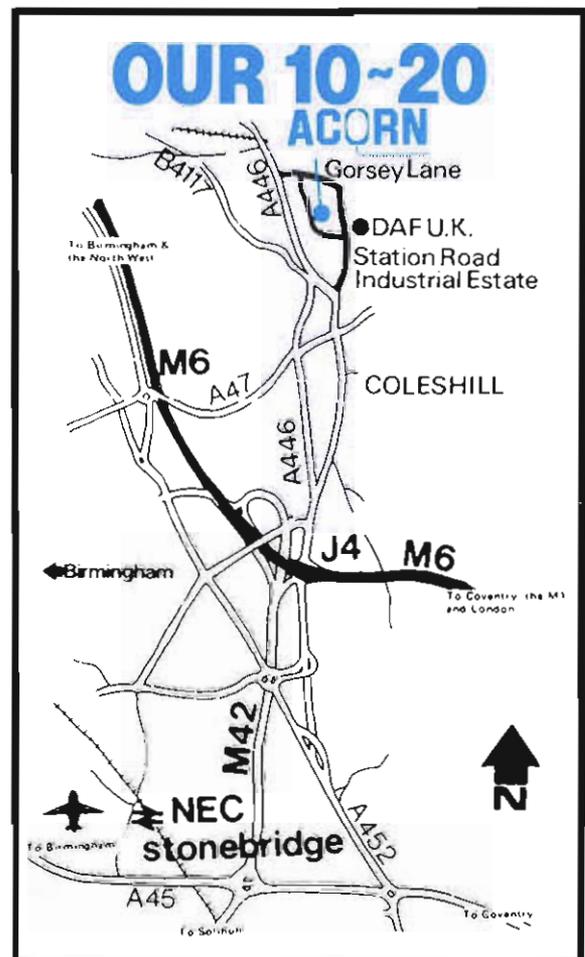
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Cover this Month

Many thanks to the New Black Abbots for looning about on our cover and also to the management and staff of the Royal Opera House, Scarborough for putting up with us.

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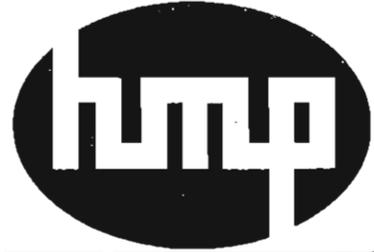
The very first British-built CB rig. Two of them are prizes in this month's Rig Review — see page 14

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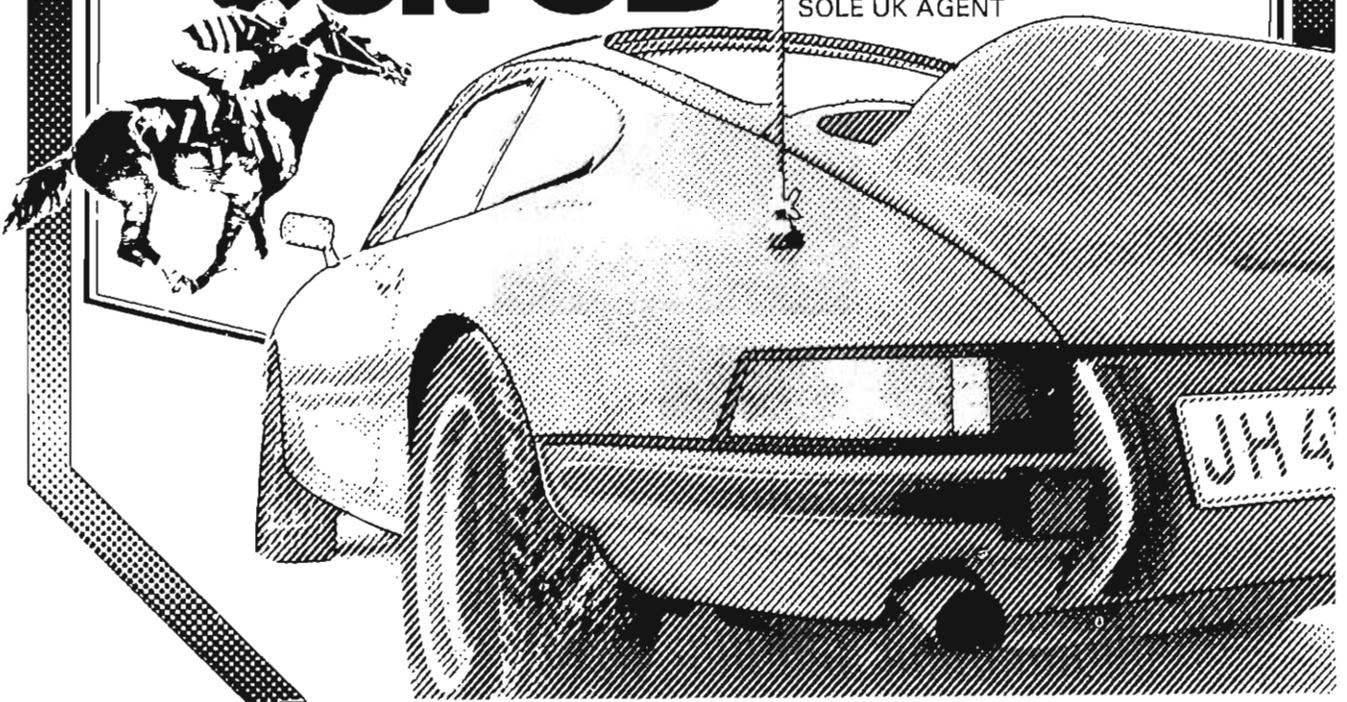


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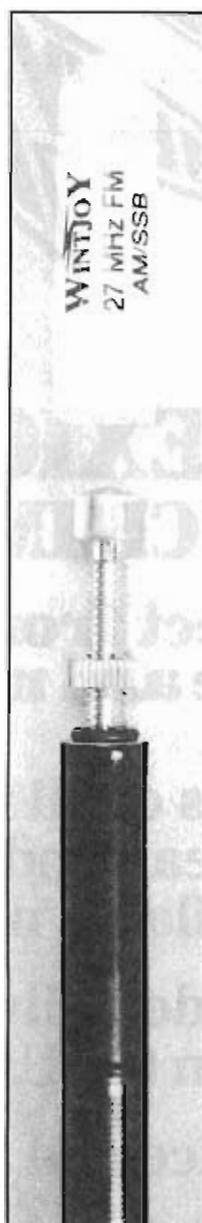
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Connexions

UPDATE

News from the world of CB



New Firestik

The *Firestik* antenna, arguably the best antenna on the market, has always been highly regarded by CBers. However, as some will know, on certain vehicles they can be a real swine to SWR. That's not really the fault of *Firestik* which, nine times out of ten, SWRs first time. On the rare occasions they are out the only thing to do is trim the top of the stick with a sturdy pair of snippers or use a hacksaw. Now, at last, *Firestik* have decided to build in a tunable tip to their antennas in the form of a screw section. What's even more interesting is the fact that these new antennas will be sold under the *Wintjoy* trade name, a real scoop for Glyn Hall down there in Shepperton. By the way, we'll be having news of a completely new range of *Wintjoy* antennas in the near future.

This new *Firestik*, designated the **FS-4**, is 4 feet long and will operate over a frequency range extending from 26.650 MHz to 28.500 MHz. Regular readers will know that this covers just about every CB system in the whole world, including of course our own proposed FM system.

The antenna is made to the usual very high standards of all *Firestik* accessories and for those who wish to know, will handle up to 1000 watts without turning into a blob of molten fibreglass. *Wintjoy* can be found of course at **103 High Street, Shepperton in Middlesex** and if you're very lucky they can be contacted on **09322 48145**.

Rigs, Rigs and More Rigs

Since we ran our exclusive review of the **Binatone** UK FM CB rigs a few months ago the flood gates have been literally torn off their hinges with an absolute deluge of new rigs destined for the UK market. This month you will find at least four new rigs in the mag. And as usual you'll read about it first in *Citizens' Band* (have you noticed how often our material turns up in other mags a month or two later? Not to worry — don't forget you saw it here first).

First away is a new range of rigs from **Fidelity** called the **CB-1000M** (pictured below) and the slightly more sophisticated **CB-2000M**. The 1000M will retail for about £60 which puts it squarely in the mid-price sector of the market. It's a full spec rig with all the usual facilities and comes complete with the fixing brackets, etc that we have come to expect. The 2000M at around £80 has a number of added controls including RF gain control, Channel 9 switch mike gain control and LED display dimmer. A full review of this rig is in the pipeline as soon as we can clear the backlog of rigs currently down for our *Rig Review* feature so keep your eyes peeled.

For more details of these rigs contact **Fidelity** direct at **Fidelity Radio Ltd, Victoria Road, London NW10** or landline them on: **01-965 8771**.



Meet The Dealers

Connections abound at **Connexions**. Take the way Dan is going out with Fred's daughter, or how about the way Dan returned from a lengthy trip to the States, photographing rock bands and album covers, to discover that he and his mate Phil had a mutual interest in CB? Things being the way they are, it seemed only natural that Dan and Phil should set themselves up in business and as things progressed invite Fred to join them, bringing with him his considerable talent for bookkeeping and figures.

Dan, Phil and Fred run what must be one of the friendliest CB wholesale outfits in the country. Connexions supply a large number of retail shops in the South and have built up an impressive reputation for good products at the right price. Much of their success can be traced back to their situation in Maidenhead, just a few minutes from the M4. Many CB dealers stop off at Connexions rather than brave the horrors of London traffic and often find themselves saving a few bob into the bargain.

Connexions started late last year and their policy of buying and selling direct seems to have paid off. Many companies trying to get into the very lucrative CB market often get their fingers burnt — not so with Connexions. It is apparent that Dan, Phil and Fred know exactly where they are going and they are only too aware of the pitfalls that can turn an otherwise successful business into a complete disaster. Connexions will be expanding shortly in a very dramatic way, and we can expect to be seeing more and more of this company as legalisation (for better or worse) gets closer.

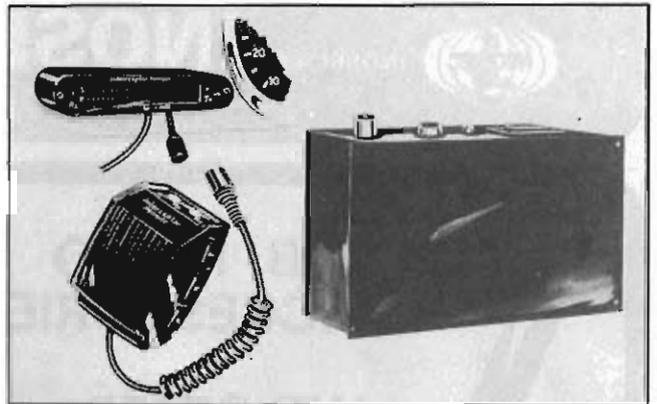
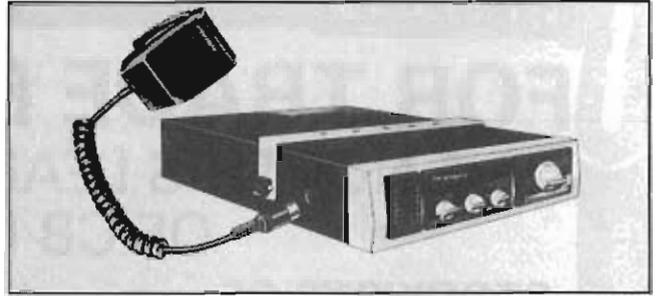
Dan, Phil and Fred are three great guys and their business attitude and knowledge will enable them to succeed. Connexions can be found at *Furrow Way, off Cannon Lane, Maidenhead*. Be warned though, the shop is a swine to find: we drove past the road at least half a dozen times before a helpful pedestrian pointed us in the right direction. How about a nice big sign in Cannon Lane, lads, for us poor short-sighted CB journalists?

Upmarket Rigs

Our good friends at **Chelsea CB** have just announced a very interesting range of rigs going under the name **Interceptor**. Here we have a selection of drawings of what the rigs will look like and, indeed, by the time you read this, the prototypes should be in the country. The basic mobile rigs will cost £70 and £85 and as you can see they sport a number of interesting features. They seem to be an intriguing departure from the rather 'boxy' looking rigs on the market at the moment.

Probably the most interesting rig in the range is the remote one-hander which has the bulk of the controls neatly fitted to the mike. A small display panel can be affixed to the dashboard and the actual transceiver can be tucked away out of sight in the boot. Rigs like these can be hidden away completely and experiences of late with rig thefts make this an attractive proposition at around £100. The base station rig is again highly unusual. It is microprocessor-based and many of the functions are controlled by a direct entry digital keypad — no more mucking around with knobs. The price for this beauty is somewhere between the £180 to £200 mark and if they are as well put together as we suspect, they will definitely find themselves up at the top end of the quality CB market.

One other rig that Chelsea CB are talking about importing is a CB, AM, FM cassette stereo combo unit. Tony at CCBC assures us that it wouldn't look out of place in a Rolls Royce and, for around £200, what more can we say except: *Chelsea CB Centre, 73-77 Britannia Road, Fulham, London SW6* are awaiting your call right now, on 01-731 0027.



Ivan Francis

We were saddened to hear of the untimely death of Ivan Francis, General Manager of REACT UK. Ivan was responsible for setting up the REACT service in this country and he will be sadly missed. We would like to extend our sympathy to Ivan's family and colleagues.



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Major Event

One of the best known names on CB rigs will soon be found on legal FM equipment — that name is none other than Major.

The model shown here is manufactured by good old Cybernet and comes complete with all the fixing kits and bits and bobs you'll need to get on the air. As yet we haven't got a recommended retail price but Major assures us that it will be competitively priced.

For further details contact Major at *Unit 2, Station Yard, Wilbraham Road, Fulbourn, Cambridge*. Look out for a Rig Review on this model within the next few months.

Fitted Up

Some things, like the sun rising every morning, are inevitable. It will therefore come as no surprise to learn that at least one company is now offering an installation service for 'in-car entertainment' equipment.

The company concerned is called **Inca Car Audio** and they can be found lurking up there in Welwyn Garden City. They offer a while-u-wait service for all kinds of ICE equipment plus they will also fit specialised alarms. Customers can have a sit down and read their favourite mags while the boxes are fitted. Inca will be launching a major TV publicity campaign to promote their service but in the meantime if you don't want all the hassle of fitting equipment yourself get along to *Inca Car Audio, Unit 1,*

Truckers' Hour

Have you been listening to **BBC Radio 2** at one o'clock weekday mornings? If you have, you may have caught *Sheila Tracy* and a show called **Trucker's Hour**. Sheila's really into CB after a visit to the USA some time ago and devoted listeners may hear quite a few CB records.

Vive le CB

Opel, well known manufacturers of cars, will be selling the Opel Kadetts in France with CB a rig built-in. This apparently will be the first time a car has been sold in France with a CB installed and could be an omen for the good old UK.

West Burrowfield, Off Cherkers, Welwyn Garden City, Herts, or give them a tinkle on 07073 35236.



CB Music 1

We have two new releases for you this month. The first, and undoubtedly the best British CB record, is an album called **Wall To Wall**. It comes from the **Citizens Banned** and is possibly the best thing ever to have happened to CB music in this country. Tracks like *'I'm In Love With My Firestik Antenna'* will never be played on the Beeb in its original version but it's the sort of stuff hits are made of. Country and Western fans may be disappointed but real music fans will find a lot of good, original music and what's more important, strong, clever and, for the most part, very funny lyrics. Listen out for the *'Nigel From Weybridge'* and *'Dear Mr Whitelaw'*.

The album will just about be released by the time you read this and it's available in 12-inch disc and cassette. Your local record shop should be able to find it for you but in case of difficulty try contacting **Chestnut Studios** at *Wishanger, Churt in Surrey (025125 4253)*.

Our second offering is called **CB Baby** and our intrepid Art Editor, **Andy Sawyer**, known for his sharp scalpel and equally sharp wit, has been casting a critical ear:

CB Baby (Angel Eyes)

Rig and the Twigs
Pask Music APS 110 A

I must admit I cringed when I was handed this single to review and read the label — *CB Baby (Angel Eyes)* by — wait for it — *Rig and the Twigs*. It starts with the mandatory breaker chat, "Breaker 19 — 19 for copy. Has anybody got their ears on? Come on?" The knees gave way.

At home I listened once, twice — it was an epidemic. I played it again and again. Nice one, Twiglets.

It's good, middle-of-the-road (sorry, officer!) music. Infectious melody (yes, they can play). Singalong lyrics — the sort of tune you can't put down (?) Shame Auntie Beeb are unlikely to play it although Roger Scott has spun it on *Cruisin'* on Cuddly Capital Radio down here in London.

It's a good value record too, 'cos on the flip side someone fell asleep on the echo machine and almost blew a good song, but not quite.

If *CB Baby* gets played enough it could get in the charts — it's up to you CBers. Gerroutanbyit!

Independent Telecommunications Suppliers' Association

In response to the recent Telecommunications bill introduced by the Government, a group of telephone equipment manufacturers, and importers, wholesalers and retailers have formed themselves into an association to protect theirs and the public's interests. The bill itself was intended to bring about the de-monopolisation of the Post Office with regard to telephone equipment but the ITSA claim that it falls well short of the ideal situation.

The ITSA hope that by presenting the Government with a united front, and the not inconsiderable public interest in alternative telephone equipment, they can change certain aspects of the bill. Interested parties can contact the Association at *11 Connaught Place, London W22ET*. ▶



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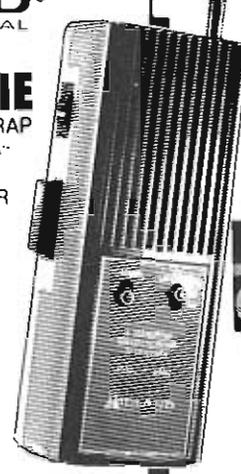
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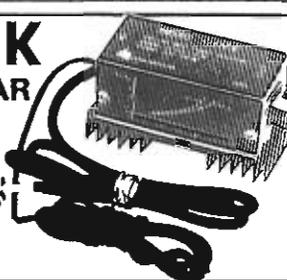


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CB Diary

Things have quietened down dramatically since last month. Here's this month's selection of events and can we remind organisers of Eyeballs, exhibitions, etc to allow at least four weeks to permit us to publish details in the relevant issue. Please mark your envelope 'CB Diary'.

July 26th

CB Mass Eyeball & Trade Show

Pavilion Ballroom, Matlock, Bath. (Matlock 2560)

August 31st

Radio Fair & Mass Eyeball

Commodore International, Nuthall Road, Nottingham. (Long Eaton 62247)

September 11, 12, 13th

Citizens' Band Show

Royal Horticultural Hall, London. (01-437 1002)

British Power

CB City has just announced a new mains power supply that is built in this country and conforms to British Safety standards. The unit will deliver 2.5 amps continuous and up to 4 amps surge. Stability is in the order of 13.8 volts DC \pm 1%.

Retail price will be around £14.95 (inc VAT) and further details can be obtained from CB City, 65 Ash Hill Road, Ash, Aldershot.

CB

COMPETITION RESULTS

Thought we might put you off with **Competition Number 5** — should have known better, though. Once again, readers of Citizens' Band have excelled themselves with an incredible selection of entries all based on the theme 'dress as your handle'.

Our highly trained group of distinguished judges spent many hours deliberating and lusting over the photographs that were sent in, particularly the ones that verged on the



Cheshire. **Second prize**, the CB voice switch, goes to *Sheep Dog* from Birmingham and the **Third Prize**, a year's sub to the mag was won by *Wicked Lady* (isn't she?), again from Birmingham. Special thanks to the South Birmingham CB Club who sent in a very large entry and both our second and third prize winners are members of that fine organisation.

Thanks to Wintjov and SSE for donating the prizes.

pornographic which we are unable to show you. (Never thought of using a microphone that way, K.L. of Swansea!)

Anyway, we finally managed to pick three winners who, in the opinion of our judges, showed the most imagination and sense of humour. They, along with a selection of the runners-up, are shown here on this page.

First prize of the pistol processor mike goes to *Jack Plug* of Warrington,

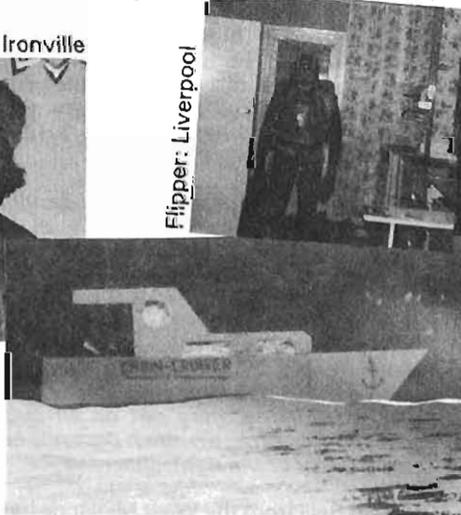


Heart Throb: SBCBC

Trapper J: Ironville



Flipper: Liverpool



Cabin Cruiser: Dunbartonshire



Vulture: Birmingham



The Joker: Birmingham



Winnie The Witch: Livingston



CB Q AND A

We've decided it's about time we introduced a problems page for CBers. Judging by the number of enquiries we're now getting, it isn't a moment too soon. So, if you've got a CB problem, be it technical, legal or emotional, just drop us a line at our usual address. Please don't forget to mark your envelopes 'CB Q & A'

First letter this month comes from Alan Moffett in Co Down, Northern Ireland, who gets the ball rolling.

Q I have seen the new FM rigs in the May issue of Citizens' Band and I would like to know:

- (1) Are all the rigs shown 40-channel rigs?
- (2) Can you buy a mag mount DV27 or even a mag base for the DV27?
- (3) I have 38 feet of TV cable and was wondering if I can use it for CB by using a splitter box?

A All the new FM rigs we've featured so far all have 40 channels. Yes, you can buy a mag mount for the DV27, most of the larger accessory dealers advertising in this magazine should be able to help you out. You must NEVER use TV cable for CB. TV co-axial is almost always 75 ohm impedance, CB co-ax on the other hand must be 50 ohm impedance. You run a serious risk of destroying the output transistor on your rig if you use 75 ohm cable; again, go to a reputable CB dealer for advice.

With the new specifications firmly in mind Grass Hopper asks if the FCC rigs can be used.

Q Having read the proposed specs for legal 27 I understand that channel 1 is 27.60125 MHz. I wonder if existing rigs (ie, 80 channels) will be able to pick up this new frequency? The nearest illegal frequency is channel 56 (27.605, 16 high). The channel separation in both cases is 10 kHz which makes the illegal frequencies about 4 kHz too high. Perhaps you could tell me whether this 4 kHz is critical or not?

A It really depends on how well designed the 80-channel rig actually is. In most cases older FM rigs are not too clever and the in-built tolerances of the receivers will permit reception of UK CB on a number of channels. We estimate that there will be around six or seven coincident channels. Transmission from illegal to legal equipment, on the other hand, may not be so successful though again much depends on the quality of the rigs concerned.

David Reill from the West Midlands has

a question about fibreglass bodied cars and CB.

Q I've got a green three-wheeler and seeing as it is made out of fibreglass I was wondering how I would get on with CB.

I have been told by one or two good buddies that I would need to install a metal plate in the car to fit the antenna, whether it is a DV27 or just a mag mount. How would I get round fitting a rig, especially earthing it to the chassis?

A No problem. Antennas specifically designed for fibreglass bodied vehicles are available. You may also be interested to know that an antenna is available for boats and motorcycles. The best range we know of for this type of specialised CB antenna comes from Shakespeare; Wintjoy, Mura, Globe and in fact most of the CB dealers will be able to help you out.

Ian Rollings from South Yorkshire has a fairly straightforward query.

Q I want to buy a CB rig but I am not sure what to look for. I have been looking through your magazine and I have become more and more interested.

At first I was going to buy a walkie-talkie (49 MHz) but I am not sure if you can hear other people talking on them or if you can only hear a person with the other half of the pair (which is how they are normally sold).

I am interested in full-size rigs but I don't know much about them. I am looking for a fairly cheap rig, under £50 or so. Please could you give me some advice as to where I can get one of the new legal rigs?

A The first thing to say is that at the moment you cannot buy a legal FM rig before legalisation date. However, we hope to be able to help you out in the near future with a special deal that we are setting up (more news next month). Our show in September (see the ad in this issue) will be a good place to start for anybody wanting to see what's available. We have a large number of rig importers booked to appear, with of course all their new rigs on show. Again, we hope to be setting up a system whereby rigs can be purchased

but we can't say too much at the moment before the details are finalised. One last point: the 49 MHz walkie-talkies you mention are, for the most part, rather limited. Generally the output power is in the order of milliwatts and the range not much further than a few hundred yards. As you say, they are sold in pairs and these are usually matched together at the factory. The chances of being within range of someone else is pretty small, and even smaller finding someone that has a transceiver on exactly the same frequency as yours. So the simple answer is no to walkie-talkies unless you are prepared to put up with the limited range and single channel (or at best two or three) channel operation.

Now for another question about antennas, this time from M Bennett from Cobham in Kent.

Q I am at present awaiting legalisation of FM CB. I have already purchased a KV27 antenna. Please could you tell me whether this will be suitable for the new system and which rig should I buy for best results?

A The KV27 can be tuned to the new frequencies without much trouble, though you have to remember it was designed for the FCC channels so performance may not be 100%. Whether or not this type of antenna will get official approval remains to be seen though. As for which rig to buy, keep your eyes peeled for a complete run-down on all the new rigs in the next month or so.

Neil Furrock has a question about our antenna reviews.

Q I read with interest your Antenna Review feature published in the July Issue regarding the Roadhog antenna. The figure you obtain and comments you make are, for the most part, similar to my own experiences with this excellent twig. However, I do find that the overall range at S2 is much greater than yours. Could this be due to my car which is a Citroën GX and my rig which is a Lafayette 1200M?

A The tests we conduct on our sample antennas are two-fold — practical in the field use with a rig of known characteristics, and technically assessed by our panel of experts which includes both electrical and mechanical testing. The final appraisal is made up from a combination of these factors plus, of course, the unbiased reactions of a number of CBers who try them out.

We never claim that these tests are the last word in scientific antenna evaluation but they are fair and what's most important, are repeated under consistent and controlled conditions. This allows us to compare the results from any of our tests. As our tests are all made on the same vehicles (not incidentally Citroën GXs) and the same rigs (not 1200Ms either) you cannot expect our results to be the same as yours. Antenna Review is intended to be a guide, and although in the past we

may have upset a few of our advertisers, even they usually agree that our tests are fair. The simple fact that our results are rarely disputed, and are used by some people almost as an industrial standard, says a lot for their authority.

Now for an old chestnut from John Wiles in Aberdeen.

Q My neighbours are complaining that my CB rig is coming over their stereo. I've fitted a TVI filter to the rig but it hasn't made a blind bit of difference. The neighbours are a pretty mean bunch and I'm sure they will report me soon. HELP!

A First thing to do is chuck away your TVI filter, unless of course you're causing TVI too. TVI filters are generally not up to much, especially if they're the cheap and nasty type that cost ten bob a gross. A good many of the filters on the market at the moment are designed for US TV systems which operate on VHF (ours is UHF) so are usually pretty useless unless they happen to be particularly well designed band stop or high pass filters.

The problem with stereos can be quite different to TVI which is generally harmonic interference. The most likely cause is known as RF breakthrough. The cause is a simple case of proximity. Virtually any transmitter, no matter what the frequency, will break through onto audio equipment if it is close enough. The remedy is to separate the offending equipment, including of course the antennas. RF pickup can be a problem on some hi-fis due to the length of unscreened cable used for the speakers: a quiet word in the neighbour's shell-like and an offer to replace his leads with screened cable might do the trick. One last thing to bear in mind, your rig might be spluttering, particularly if it was a bit too cheap to be true. You might consider taking it to your local 'doctor' to see if it has been properly aligned. Good luck, you'll need it — RFI can be a swine to cure.

Now for an interesting question from one K Dodd — no not that one, the address is Swansea, not Knotty Ash.

Q I'm by no means an electronic genius but I seem to have read somewhere that you can send TV pictures over short-wave radio. How about a design for video CB?

A Yes, it can be done — the technique is known as slow scan or FAX transmissions. In the former a picture signal from a TV camera is sent very slowly, line by line, so that a specialised receiver can make up a picture. As a half decent moving TV picture will need about 3 MHz bandwidth you can see that it would take up the whole of the CB band (and then some!) to be of any use. The usual answer is to send each line slowly at audio frequencies so that a picture will take a minute or so to transmit. In essence it would be impossible to send a moving picture.

In a FAX or facsimile system the

picture is sent as a still photograph or page of text, again on a line by line basis. This type of transmission usually involves fixing the photograph or whatever to a revolving drum that is scanned by a light sensitive cell. The signal from the cell at audio frequencies is sent over the air in the normal way, and is decoded into a mechanical movement that operates a small hammer or pen suspended over another drum that is spinning at exactly the same speed as the one at the transmitter. This drum is covered with a pressure-sensitive paper that will eventually turn into a faithful copy of the original.

So, in a word (well, about 500 actually) the answer is no to video CB on 27 MHz but a strong possibility on 93.4 MHz where there is a chance of using a greater bandwidth.

Time now for some quick one-liners.

Q Will I be able to use a phone patch on the new FM system? J.A. Berry
A Not as yet, but we're working on it.

Q What type of speaker should I use for an extension speaker for my rig? Heavy Metal, Derbyshire.

A Almost all rigs require a speaker of 8 ohm impedance rated at 2 or 4 watt minimum.

Q Is anybody going to manufacture rigs for 93.4 MHz? Peter Jéffries, Durham.

A We know of at least two manufacturers with working prototypes and maybe another half dozen or so considering doing so.

Q Can I use a telephone handset on my rig instead of the usual microphone? D.A. Willis, London.

A Yes and no. Specialised CB handsets are stocked by some accessory shops. Conventional telephone handsets however will not work due to incorrect microphone and earpiece impedances.

Q What is the range of a four foot firestick? Anxious, Chiswick.

A Approximately as long as a piece of string.

Q Will a power mike increase the range of my rig? Wheezer Geezer, Sheffield.

A Not really, in extreme cases it might cause distortion and spluttering on adjacent channels.

Well, that's it for this month. CB Q & A is here to help you, so send in your questions to our usual address which is: Citizens' Band, 145 Charing Cross Road, London WC2H 0EE and don't forget to mark your envelopes 'CB Q & A'.

CB

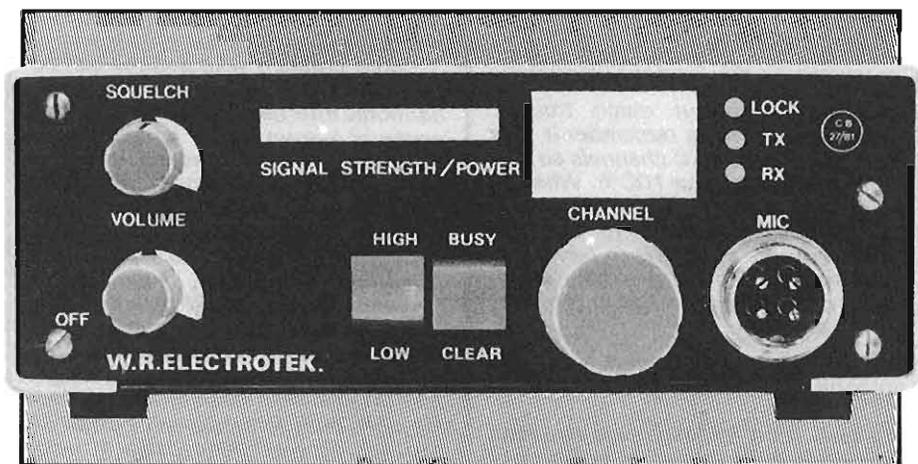
Rig Review



UKCB 22B1

(translation: U.K. CB rigs, two to be won.)

This is the big one! This month in Rig Review we proudly present the very first British-made CB rig and offer you the unique chance to win two of them, worth nearly £200, in a simple and free to enter competition.



Rig without a name — Your chance to be famous

Notice something unusual about the rig pictured on this page? That's right, it hasn't got a name — and that's where you come in. After we've told you about this new and exciting rig we will give you the chance to own one of the mobiles shown here and a base station version of the same rig.

This rig is very important for British CB in a number of ways. First, as we have already said, it will be built in this country or, to be strictly accurate, Wales. The rig was conceived and designed in this country and much of the actual design is attributed to a gentleman known as Paul Bennet. The rig will be manufactured by a company called **W R Electrotek**, run by an enterprising duo in the shape of Maureen and Richard Woodward who can take most of the credit for getting this very ambitious project off the ground.

A number of interesting features have been designed into the rig and many of them are highly innovative technically. Take the channel selector, for instance. Instead of using the almost universal electromechanical BCD wafer switch the new rig will have

an optical channel change switch that will again be made right here in Britain. This will have a number of important advantages over the mechanical version, not least the immunity to wear and ease in operation by virtue of it only having 20 positions per rotation. Changing from channel 40 to channel 1, for instance, will take two rotations of the channel selector knob making finding individual channels much more precise.

The rig will be built on a modular basis. Richard explains that this will enable basic components and modules to be used in a number of different rigs. Amateur equipment, for example, can be developed without having to completely re-tool production facilities. The problem of finding a suitable PLL (phase-locked loop) chip has been circumvented by designing a discrete frequency synthesiser based on five individual chips, though Richard assures us that when single chip PLLs become more easily available he will use them and there will be a consequential reduction in the cost of the rig.

The rigs will be built in Newport in a factory that can turn out 250,000 rigs each year and offer employment to 50

people in a depressed area — that must be a good thing for everyone. The big question is, of course, how much will they cost? The projected retail price for the mobile rig shown here will be about £92. The base station version will cost another £30 or so more.

That's not actually expensive when you consider what you're getting. Take the display — you won't find features like this on any rigs at any price. It has a 'hi/lo' switch to cope with antenna restrictions. The output transistor is a VMOS device, which means it's virtually indestructible, no matter how bad the SWR may be. The squelch control has a channel 9 priority switch built in, and a scan facility which automatically locates clear channels at the touch of a switch. A solid state LED display is used to indicate power output and a signal strength, colour-coded for quick reference.

At the moment, the Woodwards are finalising the details prior to setting up full-scale production. This is one very confident British company and one that could have a significant effect on the UK CB scene.

We at CB magazine are also confident — confident enough to offer as prizes two of the very first rigs that come off the Electrotek production line.

The prize is actually two-fold because, as we said earlier, these rigs have yet to be named. We want you to think up two names, one for the mobile rig shown here and one for the base station rig. The winning names will appear on literally thousands of rigs in the next year or so. The second part of the competition is to think up a short slogan using one of the names you have thought of, using no more than 25 words.

The competition is free to enter and you can have as many tries as you like, but only entries on the official entry form will be eligible.

Entries should arrive no later than August 20th. We'll be carrying out a full review of this rig in the next month or so and we hope to bring you details of the base station rig shortly. Name this notable CB rig, and see your suggestion immortalised on thousands of rigs. It could be your choice — get to it!



The, well, you tell us what to call it

Model: It's up to you!

Features	Yes	No	Specifications
PA Facility		●	Modes Of Operation
External Speaker Jack	●		FM Only
TX Indicator Light	●		No Of Channels
RX Indicator Light	●		40
PA Indicator Light		●	Weight
S/RF Meter	●		*N/A
Built In SWR Meter		●	Dimensions
ANL Switch		●	140 x 50 x 200 mm
NB Switch		●	Supply Voltage
Variable RF Gain		●	13.8 VDC
Mike Gain		●	Supplier
Delta Tune		●	WR Electrotek
Tone Control	●		Manufacturer
LED Channel Readout	●		25 Court Road, Horfield, Bristol (0272 514901)
			Price
			Approx. £90-£100
			* These details not available at time of going to press.

Facilities	Superb	Good	Fair	Poor
Ease Of Controls		●		
Built In Speaker		●		
Microphone Location	●			
Quality Of Control Switches	●			
Channel Indicator Readability	●			
Mounting Bracket	*N/A			
Hand Book/Instructions	*N/A			

Rules
 This competition is only open to UK residents and due to licensing restrictions that may be imposed, will not be open to anyone under the age of 16. However, we're sure that a signature from a parent or guardian will make it all OK though we reserve the right to cancel such entries if it turns out that there's a problem. The prizes will not be dispatched until the good old Government says CB is OK, 'cos we don't want to get locked up — but rest assured we are honest and the prizes are offered in good faith at the time of going to print. The winners will be notified by post and invited to the CB offices for a spot of nosh and a piccy or two. Please, no correspondence and as usual the Editor's decision is final.

CB!

Entry Form

My name for the Mobile Rig is:

My name for the Base Rig is:

Slogan:

(Not more than 25 words please)

Name

(CAPITALS)

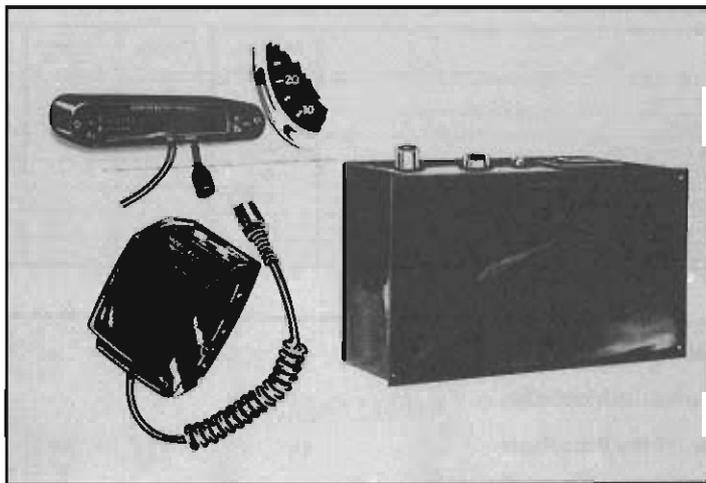
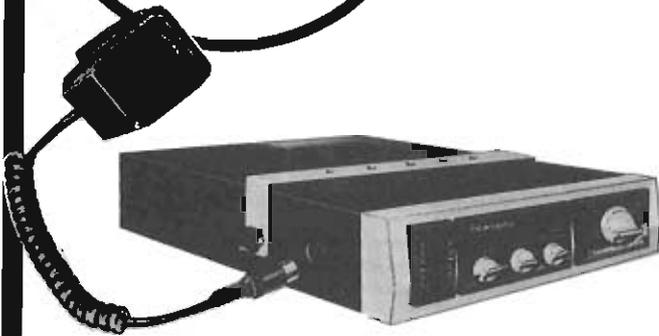
Address

(CAPITALS)

CHELSEA CB CENTRE

TELEPHONE:- 01-731-0027

73-77 Britannia Road
London SW6-2JR



We are the sole distributors of the all new Interceptor Tranceivers.

Write or telephone for further details.

TRADE ENQUIRIES ONLY

One thing is certain, that there will be an issue next month — at least, I hope so 'cos I've got these five kids, need new shoes they do. The wife, she's moaning about the hole in the carpet — only foam back, still costs money, though. Now listen, if you don't buy this magazine next month you'll have five shoeless kids on your conscience and the wind'll be whistling up me trousers again, only just got over the last bout of flu. How could you live with yourself? Hit a man when he's down, would you? Come on, think of the kids. We were so poor last winter we couldn't afford any heating. I used to have to suck a peppermint and the wife and kids would sit around me tongue, warming their hands. Poor! You don't know the meaning of poor. We were so poor . . .

Okay, okay, you don't want to hear my troubles, hold on a minute while I blow me nose. Ppppppfffffnnnnnnnnpsssh (*any better suggestions for spelling the sound of a nose-blowing session should be sent to CB Radio magazine*). Now, let me tell you all about next month's Citizens' Band magazine, hang on a minute the phone's ringing . . .

Sorry about that, that was a message from the printers. It appears I'm getting a bit close to the bottom of the page, so I'm going to have to get them to print this a size smaller.

Ah, that's better, plenty of room left. Now, where was I? Oh yes, next month. Well, all being well with the wind in the right direction we will be running a major feature on . . . Just a minute, it's the phone again. Okay, it seems we're still too big, make it a size smaller please Mr Printer.

This should be alright for a while. Before the phone rings again I'll try and tell you as quickly as possible what's in store next month . . . Not again, I don't believe it. See you again in the next paragraph — breathe in.

Still with us? Good, no more poncing about. Main feature next month is a long hard look at the CB Antenna scene, ha, got one in. Keep going lad. Andy Giles has been running around all over the country ferreting about in the dark crevices in CB accessory shops, rooting out all the CB antennas he could find. We've got the lot, well, most of them anyway. Andy will be telling us what's available, where to get it and what it costs . . . Okay I know, make it smaller.

Can't get much smaller, you'll need a magnifying glass soon. Right, just enough space to tell you about a look at marine CB, we've got a few unusual ideas on that score. We've got some more rigs, very interesting they are too. Antenna Review will set you thinking, Clubs, News, Mack The Hack, all the regulars arrrrrrgh, the bottom of the page, no smaller type, I'm

fallingoffthepageseeu.

COMING

NEXT MONTH

THE SEPTEMBER ISSUE
WILL BE ON SALE
AUGUST 15TH

Equipment Review



There are literally hundreds of different CB accessories on the market. Many are just over-priced junk and many are worthwhile buys. Andy Giles takes a look as some of the more unusual accessories on offer

The Accessory Scene

LIST OF MANUFACTURERS AND SUPPLIERS

- | | |
|-------------------------------------|---|
| 1. Allweld Engineering | Unit 6, 232 Selsdon Road, South Croydon CR2 6PL. Tel 01-680 2995. |
| 2. Connexions | Furrow Way, Cannon Lane, Maidenhead, Berks SL6 3NY. Tel 062-882 4338/9. |
| 3. Johnson Electronics | Star Warehouse, Camden Goods Depot, Chalk Farm Road, London NW1 8AH. Tel 01-485 3918. |
| 4. Lowe Electronics Ltd | Chesterfield Road, Matlock, Derbys. Tel 0629-2817/2430. |
| 5. MCW Electronics | PO Box 120, Ashton-in-Makerfield, Wigan WN4 9RB. Tel 1942-715083. |
| 6. NIC | 61 Broad Lane, London N15. Tel (Day) 01-808 0377, (Eve) 01-889 9736. |
| 7. Packer Communications | Bridge End Barn, Soutergate, Kirkby-in-Furness, Cumbria. Tel 0229-89 448. |
| 8. Semicom Electronics Ltd | 14 Paul Street, Frome, Somerset. Tel 0375-71189. |
| 9. Solid State Electronics (UK) Ltd | 6 The Orchard, Bassett Green Village, Southampton SO2 3NA. Tel 0703-769598. |
| 10. Wintjoy Ltd | 103 Shepperton High Street, Shepperton, Middx. Tel 09322-48145. |



Right: 10-19
Left: 27/422



ANTENNA MATCHERS

Model	Distributor/Manufacturer	Price
CB-30A	Miranda	£8.50

The Miranda CB-30A is a small (80 x 55 x 30 mm) box that should also be inserted in the aerial lead between the aerial and the SWR meter. It has two control knobs on the front, one for coarse tuning and one for fine, and they are adjusted until the SWR meter reads minimum. The CB-30A can withstand up to 100 watts of RF going through it which means that you can leave it in circuit and tweak up your SWR every time you change to a different part of the band.



Below: CB30A

Model	Distributor/Manufacturer	Price
27/422	CTE	£3.95

The 27/422 is an antenna matching device that measures approximately 125 x 65 x 55 mm. It presents an impedance of 52 ohms to the rig and it can handle up to 100 watts of output power. It has been designed for use at 27 MHz and the manufacturer claims that it will cope with an SWR as bad as 5 to 1. There are two controls on the front panel, one for coarse tuning and one for fine, and the unit can be left in circuit for returning when you change channels.

Model	Distributor/Manufacturer	Price
10-19	9	£9.75

The SSE 10-19 is an antenna matching device that will cover the frequency range of 26-30 MHz. It tunes aerials that are connected to it with co-axial cable and random lengths of wire as well. The unit, which should be connected between the antenna and the SWR meter, has only two controls and they are twiddled until you achieve minimum SWR. It can take up to 100 watts of output power, has an impedance of 50 ohms and measures 57 x 40 x 100 mm.

SIGNAL SPLITTERS

Model	Distributor/Manufacturer	Price
10-2WP	9	£9.95

The 10-2WP signal splitter allows you to use one aerial for both your broadcast receiver and your rig. The aerial, which the splitter manufacturer suggests should be either centre or top loaded, is plugged into the unit and then the two leads that come from the unit are plugged into the appropriate radios. The splitter presents 50 ohms impedance to your rig and approximately 110 ohms to the car radio. The unit can handle up to 50 watts from

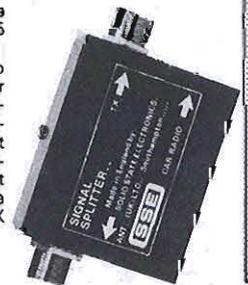
the rig and it has a transmit bandwidth of approximately 500 kHz. There is a 1.5 dB loss of reception with the broadcast receiver.

Below: 10-2WP Splitter



Model	Distributor/Manufacturer	Price
10-2NP	9	£9.95

The 10-2NP signal splitter will do everything that an ordinary splitter will, but it can also be used in conjunction with a multi-band scanner. Not only does it cover the broadcast bands, it will also cover all the frequencies between 40 and 500 MHz. This gadget makes it possible to run your rig and a scanner such as the Bearcat or the SX 200 from the same aerial.



TVI FILTERS

Model	Distributor/Manufacturer	Price
CB-730A	2 Ariste	£2.50

The Ariste CB-730A antenna coupler is a small (70 x 40 x 35 mm) silver box that has five sockets built into it, two SO 239 and three of the car radio type. The idea is to plug your car's aerial into one of the sockets and then use separate leads to plug up to four other receivers into the others. The four outlets are designed to give 20-70 MHz, 148-175 MHz, 250-470 MHz and one for an AM/FM broadcast receiver.

Unfortunately, despite the fact that these units were designed for use with receivers, some dealers have been selling them for use with transceivers.



Right: Ariste CB-730A

Model	Distributor/Manufacturer	Price
1118	10 GoldLine	£7.45

The Gold Line stackable TVI filter plugs directly into the output socket on the back of the rig. The antenna lead then plugs into the filter. The filter works by only allowing frequencies above 36 MHz to pass through, it blocks out all the harmful harmonics that are the cause of TVI. If the problem persists because some of the harmonics are still leaking through, it is possible to screw another filter into the existing one which doubles the amount of suppression.



Right: Stackable TVI Filter

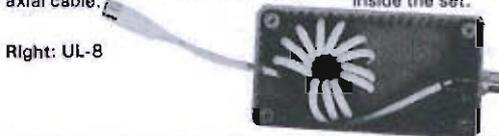
Model	Distributor/Manufacturer	Price
UL-8	7	£6.86

The UL-8 TVI filter fits on the back of a television set and filters out the harmonics generated by some CB rigs. It's the harmonics that usually cause television interference. This unit has been designed and built in Britain which means that it was made to work with British UHF televisions, unlike some of the filters that are on the market at the moment that were designed for use with American VHF television. The UL-8 uses a combination of the well tried techniques of winding the feeder around a ferrite ring plus printed circuit capacitors and shorting coils

Model	Distributor/Manufacturer	Price
UL-4	7	£4.98

The UL-4 TVI filter, which also fits onto the back of a television set, is for the less serious cases of interference. It can also be used to prevent interference on VHF televisions and VHF FM radios. It is made in Britain and uses a massive ferrite ring to prevent RF coming down the outside of the coaxial cable.

Right: UL-8



Right: UL-4

Model	Distributor/Manufacturer	Price
MF-2	7	£3.85
MF-2E	7	£7.55

The MF-2 mains filter has been designed to fit inside a television receiver and the manufacturer stresses that it must be fitted by a competent technician.

The MF-2E, like the MF-2, is a mains filter but has been designed to be fitted externally, in the mains lead and not inside the set.



PREAMPS

Model	Distributor/Manufacturer	Price
LNP 28V	5	£24.95

The LNP 28V has RF switches which automatically turn the device off the moment you start to transmit. It can handle up to 100 watts of output power and its noise matched circuit uses one of the latest dual gate MOSFETS to give a power gain of 14 dB and an overall noise figure of better than 1.8 dB. The unit draws 75 mA at 13.8 V, measures 105 x 75 x 35 mm and comes complete with an SO 239 socket and a PL 269 plug on a flying lead.

Model	Distributor/Manufacturer	Price
27/375	CTE	POA

The CTE 27/375 is the biggest preamplifier that I have ever seen, measuring approximately 165 x 115 x 80 mm — easily three or four times as big as other preamps. It has a claimed gain of 25 dB, a frequency range of 26-30 MHz and an impedance of 50 ohms. At 12.6 V it will draw 250 mA. On the front panel there is an on/off switch, a tuning knob and a large red window that lights up and displays the words 'on the air' whenever you transmit.

Below: CTE 27/375



HORN SPEAKERS

Model	Distributor/Manufacturer	Price
18-560	2 G.C.Electronics	£7.90

The GCE CB/PA horn speaker is approximately 5" in diameter, has an 8 ohm impedance and is capable of handling up to 5 watts of output power. It has a frequency range of 200-7,000 Hz and it will carry on working over a temperature of -40°F to 150°F. The manufacturer claims that the shatterproof plastic housing makes the speaker so waterproof that it is totally submersible. It is supplied complete with a swivel base and a short length of twin core cable.

Below: 18-560 horn speaker



Model	Distributor/Manufacturer	Price
40-1244A	10 Realistic	£6

The Realistic horn speaker measures approximately 4" in diameter and it has an impedance of 8 ohms. Its power handling capability is 5 watts. It is waterproof and, like most horn speakers, it is suitable for mounting outdoors where it will be capable of standing up to the weather. It is supplied complete with a length of twin core cable and a swivel mount.

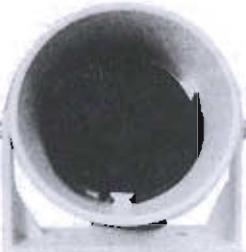
Right: 40-1244A from Realistic



Model	Distributor/Manufacturer	Price
SE-HS1	8	£9.70

The SE-HS1 is a rugged, high quality horn speaker that can handle up to 5 watts of output power and it has an impedance of 8 ohms. It has a waterproof housing and a Mylar cone driver which makes it ideal for all outdoor uses such as on board a boat or on the back of a motorbike where it will carry on working despite getting soaked.

Right: SE-HS1



MOBILE MOUNTS

Model	Distributor/Manufacturer	Price
CM-150	10	£12

The Wintjoy heavy-duty hump mount is a matt black solid device that enables you to mount your rig on the transmission hump in your car. (It's got nothing to do with a breaker called Quasimodo.) There are several adjusting screws so that it can be made to fit almost any car that has a transmission tunnel. The centre of the mount has been cut out so that the sound from the speaker can still be heard.

Below: Heavy duty hump mount



Distributor/Manufacturer		
Model	10	Price
3075	Krikette	£12.50

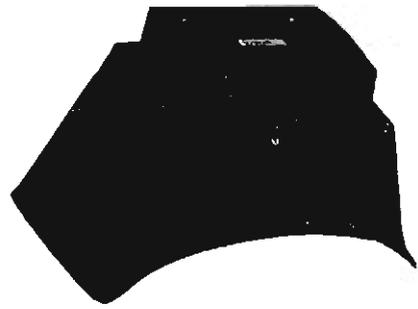
The Krikette combined speaker and hump mount is made of impact-resistant copolymer and it measures 6 1/2" x 8" x 9". It has been designed to fit onto your transmission tunnel without the use of screw bolts or brackets; around the bottom of the mount there are small plastic teeth that hold it in place. The manufacturer suggest that you unplug your aerial end power leads and lift out the whole unit and hide it in your boot whenever you leave the car. Because it's only the plastic teeth that hold the mount in place, it can be removed easily and when it has been hidden in the boot,

there are no brackets left to show that you ever had a rig.

The built-in forward facing speaker has a 3 1/2" weatherproof cone, a 3 oz ceramic magnet and a 3/4" copper voice coil. It has an impedance of 8 ohms, a frequency response of 200-8,000 Hz and it is capable of handling up to 5 watts. It comes complete with a short lead that has a moulded on 3.5 mm jack plug and the entire unit weighs 1 lb 8 oz.

Most rigs have their own internal downward-facing speaker but when the rig is mounted under the dashboard the sound from the internal speaker is then directed towards the floor. The Krikette hump mount/external speaker not only provides an easy method of mounting a rig in any car

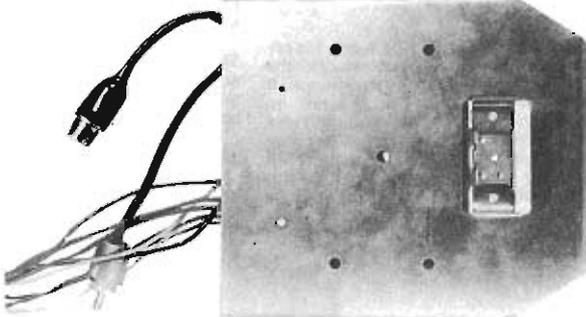
that has a transmission tunnel, it also makes sure that the sound is directed towards you.



FREQUENCY COUNTERS

Distributor/Manufacturer		
Model	6	Price
Slide Mount		£3.95

There is only one sure way to stop a thief taking your rig out of your car — don't leave it in there. A slide mount makes it very easy to take your rig out of your car when you park. One half of the mount remains attached to the car and the other is fixed to the rig. When you slide the mount out, all the wires are automatically disconnected and vice versa when the rig is replaced in the vehicle. If you are only going to leave the vehicle for a few moments, the two parts of the mount can be locked together so that the rig cannot be removed.



Distributor/Manufacturer		
Model	6	Price
SB-75D	SB Elektronik	£38.75

The SB-75D frequency counter covers either 0-10 MHz or 0-30 MHz. It has switchable impedances of either 10k ohms or 50 ohms. It measures approximately 150 x 100 x 50 mm, has a very large LED display and has two power terminals on the back. There are also two SO 239 sockets for plugging in the leads from the aerial and the rig — the SB 75D must be used in-line, it's not possible to use it by just placing it near to the transmitter or the aerial.

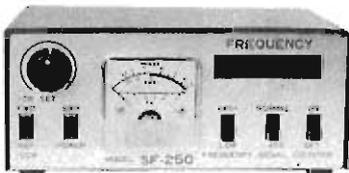
Distributor/Manufacturer		
Model	2	Price
SF-250		£44.50

The SF-250 is a combined SWR/power meter and a frequency counter all in one box which measures approximately 155 x 70 x 90 mm. The analogue meter measures SWR and power when it's used in conjunction with the switches and the rotary control on the left-hand side of the faceplate. The digital readout on the right-hand side is used to display frequencies. On the back there are two SO 239 sockets so that the unit can be plugged in to measure SWR and there is also a socket for the small whip aerial that is provided for sensing RF when measuring frequencies. There are also

two phono sockets for the probe leads that are also provided for checking frequency in circuits. The two power leads run out through a rubber grommet on the back of the unit and the red one is fitted with an in-line fuse holder.

Distributor/Manufacturer		
Model	4	Price
HFC 55		£36.50

The HFC 55 is a single range frequency counter that covers 10 kHz to 55 MHz. The large bright LED display gives a direct reading of the frequency whenever the built-in telescopic aerial is brought near to a source of RF. It operates from internal dry batteries, which makes it fully portable and it is housed in a strong metal case.



Below: SF-250 SWR/Power meter



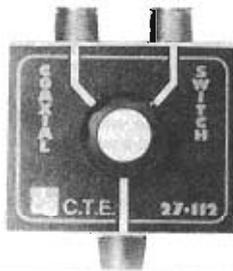
Right: HFC55 frequency counter

MISCELLANEOUS

Distributor/Manufacturer		
Model	CTE	Price
27/112		£4.95

The CTE co-axial switch is a small (approximately 70 x 60 x 40 mm) box that has two SO 239 input sockets and one SO 239 output socket. One of the best uses for one of these gadgets is switching between two different aerials. If you were using a base station and just listening around, the best sort of aerial to use would be an omnidirectional vertical but if you were to then pick up a station that you wanted to work, the best aerial to use then would be a beam because it concentrates all your signal in one direction. A co-axial switch such as the 27/112 makes changing aerials very easy

because once the aerial leads have been plugged into the back, all you have to do to change over is turn the switch.



Left: Coaxial switch.
Below: Rama power reducer



Distributor/Manufacturer		
Model	Rama	Price
PC-3		£20

The Rama power reducer is an active attenuator. It's a black box measuring approximately 90 x 90 x 45 mm, has a three-position switch on the front and has two power leads coming out of the back to pick up the 12 V that it needs to work. With the unit inserted between the rig and the aerial and the switch in position 1, the output of a 4 W rig would be 4 W. With the switch in position 2 the output would be 2 W and in position 3 the output would be 0.4 W.

Distributor/Manufacturer		
Model	10	Price
Un-tenna	G.T Inc.	£12.70

The Un-tenna is an unusual little gadget that lets you use any ordinary mobile broadcast receiving aerial to not only receive programmes on your car radio, but also to use with your CB rig. The compact unit (1.25" x 3.5" x 3.25") can be easily hidden under the dashboard and it comes complete with a 29" cable with an aerial socket on the end, an 18" one that plugs into the AM/FM car radio and an 18" one that goes to the rig. To install it, just plug in

the appropriate leads, twiddle the adjusting screw until the LED tells you that it is in tune and then just listen to your radio or use your rig.



Above: Un-Tenna

Distributor/Manufacturer		
Model	2	Price
SW-1	ACI	£8.95

Below: SW-1 SWR meter



The SW-1 SWR meter measures only 75 x 55 x 45 mm which makes it ideal for mounting permanently under your dashboard because it takes up so little room. It is a single meter device which means that the REFL - FWD switch on the front of the unit has to be used when setting it up. Also on the gold front of the box is a golden CALIBRATE knob. There are two SO 239 sockets on either side of the box.

Distributor/Manufacturer		
Model	10	Price
18-732	GCE	£8.75

The GCE CB Antenna Co-Phaser is a very useful gadget that will phase up any two CB antennas without the need for special cables. All you have to do is buy any two aerials of the same type, adjust them individually for minimum SWR and then plug them into the Co-Phaser. There is only one knob on the unit and that should be adjusted for minimum SWR. It does both aerials at once so it couldn't be easier. Now you don't have to buy sets of phased aerials, you can buy any aerials that you like and then phase them yourself.

For the uninitiated, phasing a pair of aerials on a car helps to reduce fading

and it also alters the shape of the transmitted signal. Instead of being almost circular, the radiation pattern becomes sausage-shaped with extended lobes to the front and rear of the vehicle. This gives more gain in those directions which is why this type of set-up is popular with truckers — front and back gain is just what you want on a long straight motorway.



Distributor/Manufacturer		
Model	10	Price
Intenna	Gold Line	£15

The Gold Line Intenna is a sort of indoor dipole aerial. It consists of a box that has two tuning knobs and a meter on the front. There's a wire with a rubber sucker on it coming from each end of the box and at one end there is an SO 239 socket. The idea is to stretch the two wires across a window and then stick the suckers to the glass. A lead from the rig should then be plugged into the socket via an SWR meter. The two knobs are then twiddled for minimum SWR and maximum reception. When the two wires are fully spread, the aerial measures approximately 175 cm from end to end.



Distributor/Manufacturer		
Model	10	Price
Aerial Mount		£2

Glynn Hall at Wintjoy has just introduced a new range of aerials and bases. They all have a standard screw fitting and they come in a variety of shapes and sizes. Next month we will be looking at some of his aerials but this month we have illustrated a body fixing mount. The top of the mount swivels in much the same way as a normal car aerial mount swivels and this allows the aerial to be fixed to any sloping part of the car's body and still remain upright. The mount is supplied complete with a length of co-ax.

Below: New antenna mount

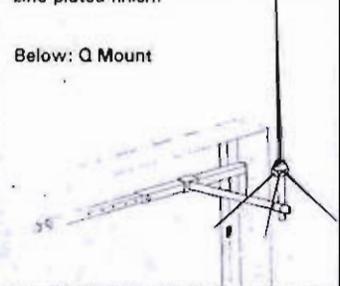


Distributor/Manufacturer		
Model	1	Price
Q-MOUNT		£27.60

The Q-Mount is an interesting and unusual gadget that should prove useful to anyone who lives in a block of flats or a house where it is not possible to mount an aerial on the roof. The Q-Mount locks in position between any two suitable surfaces such as a window opening. Once it has been fitted to a window, you can then mount most types of aerial on it, even rotators can be used with the appropriate bracket. The mount is very strong and so versatile that there are very few aerials that the flat dweller will not be able to use. It was designed and built in Britain and patents have been applied

for. It comes complete with all the necessary mounting parts and is available in either the standard bright silver finish or the deluxe matt black zinc-plated finish.

Below: Q Mount



EXTENSION SPEAKERS

Distributor/Manufacturer		
Model	8	Price
SE-CST 1A		£9.50

The SE-CST 1A mobile extension speaker has been specifically designed to handle frequencies in the speech band, i.e. 300-3,500 Hz. As it measures only 55 x 50 x 67 mm it is very easy to find somewhere to mount it in your car. It can handle up to 4 watts and its impedance is 4 ohms. It comes complete with 2 m of twin lead cable which is terminated with a 3.5 mm jack plug.

Below: SE-CST miniature extension speaker



Above: Diesel 'Ten Code'

Distributor/Manufacturer		
Model	2	Price
D-10	Diesel	£11.95

The Diesel 'Ten Code' speaker is so called because it has some of the American 10 code printed on its face. Presumably this is to help the novice who can't remember the code, though why he should want to is another matter. The speaker is quite well made and has what the manufacturer describes as unbreakable aluminium brackets. It is also supplied with a long twin core lead that has a moulded on 3.5 mm jack plug and there is a built-in high/low switchable filter. Its impedance is 8 ohms and it can handle up to 5 watts.

Distributor/Manufacturer		
Model	2	Price
D-11	Diesel	£12.95

The Diesel D-11 is a very attractively designed extension speaker that not only looks good, it also has a reassuringly weighty feel about it. It is quite slim (110 x 110 x 45 mm), is 8 ohms impedance and is capable of handling up to 5 watts. It is supplied complete with an aluminium mounting bracket and a long extension lead that has a 3.5 mm jack plug moulded on the end.

Distributor/Manufacturer		
Model	10	Price
Speak Easy	Firestik	£12.25

The Speak Easy extension speaker is so tiny (2 3/4" x 2") that it can easily be mounted in most vehicles. It offers 300 to 10,000 Hz of audio response and it features a pulse dissipating disc, a grill filter, a 1 1/2" voice coil and a 1 3/4" magnet. It is supplied complete with a 6 1/2" lead that is fitted with a 3.5 mm jack plug, an adjustable mounting bracket and all installation hardware.



Right: Twin-Visor speaker

Distributor/Manufacturer		
Model	10	Price
Twin Visor	Suparex	£11.50

Siting an extension speaker inside a car is not always an easy matter and Suparex have come up with one solution with their Twin Visor speaker. It has two spring clips on the back so that it can be attached to the underside of the sun visor in your car. It also has a very long lead, fitted with a 3.5 mm jack plug, so that you can run the lead around the edge of your car and then plug it into your rig. Having the speaker on the sun visor means that the sound comes from directly in front of your head and not from somewhere under the dashboard, which makes copying a lot easier.

Distributor/Manufacturer		
Model	Sylvania	Price
SYL-AM		£7

The Sylvania Auto-Match was at one time sold by Big Ears but I gather that this is no longer so, which means that I now have no idea who sells it nor how much it costs. Normally I wouldn't review an item that I don't know the price of or where it is available, but this gadget is so unusual that I think it is worth a mention. If you decide that you want to buy one, you'll have to search until you find a shop that has it in stock.

The SYL-AM is an automatic antenna matcher. An ordinary matcher has to be inserted in the aerial lead between the aerial and the SWR meter and then whenever you see from the meter that your SWR is out, you have to twiddle one or two knobs on the matcher unit until the SWR reaches minimum. The SYL-AM works in much the same way in that it has to be inserted between the aerial and the SWR meter, but it must also be connected to a 12 V supply. This is because it contains a small electric motor, and it is this motor that carries out the adjustments. There are no knobs at all on

the box. Whenever you transmit, the SYL-AM senses your SWR and then activates the motor which in turn adjusts your SWR. The unit is a 3 3/4" x 3 3/4" x 1" stainless steel box that has a window in it so that you can see the cogs and bits and pieces inside and it is quite eerie watching them whirl around all by themselves whenever you transmit. As you probably know, your SWR changes every time you change channel, and when you go from one end of the band to the other your SWR can be way out, but now here's a gadget that will stop that, automatically.



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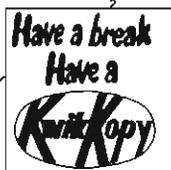
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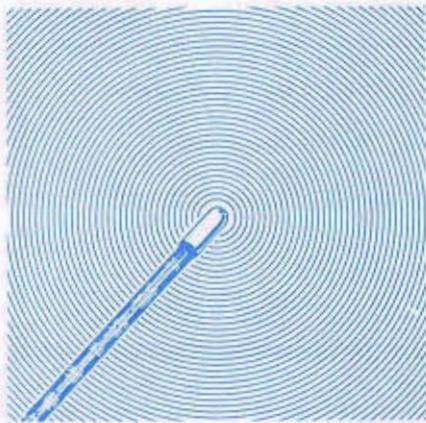
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Antenna Review

Philips-Simply Ears Ahead



Now here's a name we all know — yes, that's right — a CB Antenna from Philips, better known for their TVs, videos and fridges. How do they fare in the wonderful world of CB?

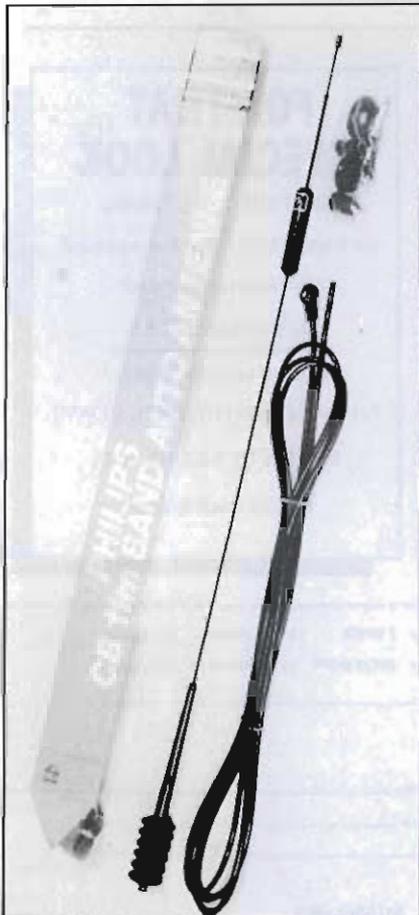
It takes a while to come to terms with an antenna as strange as this one. The Philips 22EN8423 is not only unusual to look at but the very name Philips strikes awe into those more familiar with that company's domestic equipment. The actual shape is more reminiscent of a reed plant — the loading coil is neither at the top nor in the centre yet this very sturdy quarter wave antenna really starts to look appealing after the initial shock has worn off.

As it is only 72 cm long it sits nicely on the wings of most cars and the rather thin rod which looks as though it might sway about is actually quite rigid.

Philips are to be congratulated on the way this antenna is packaged. All of the mounting kit and SWR adjust-

ment as well as a PL259 plug come in neatly sealed plastic bags. The only criticism at this point would be the failure of Philips to solder the PL259 to the co-ax, something of a nuisance at the best of times. However, this will enable fastidious CBers to make a good job of installation and cut off surplus cable once it's installed.

The actual mounting kit is a little over-complicated, consisting of a hinged mounting rod, wing grommet and various nuts and bolts. From our experience the hinged mounting stub can be a little floppy if it's not tightened up properly and it can be awkward to adjust the antenna to the correct angle once it's installed. All the mounting components are superbly made and look as though they'll last for years. The whole antenna seems to be well



The Philips EN8423 and mounting kit

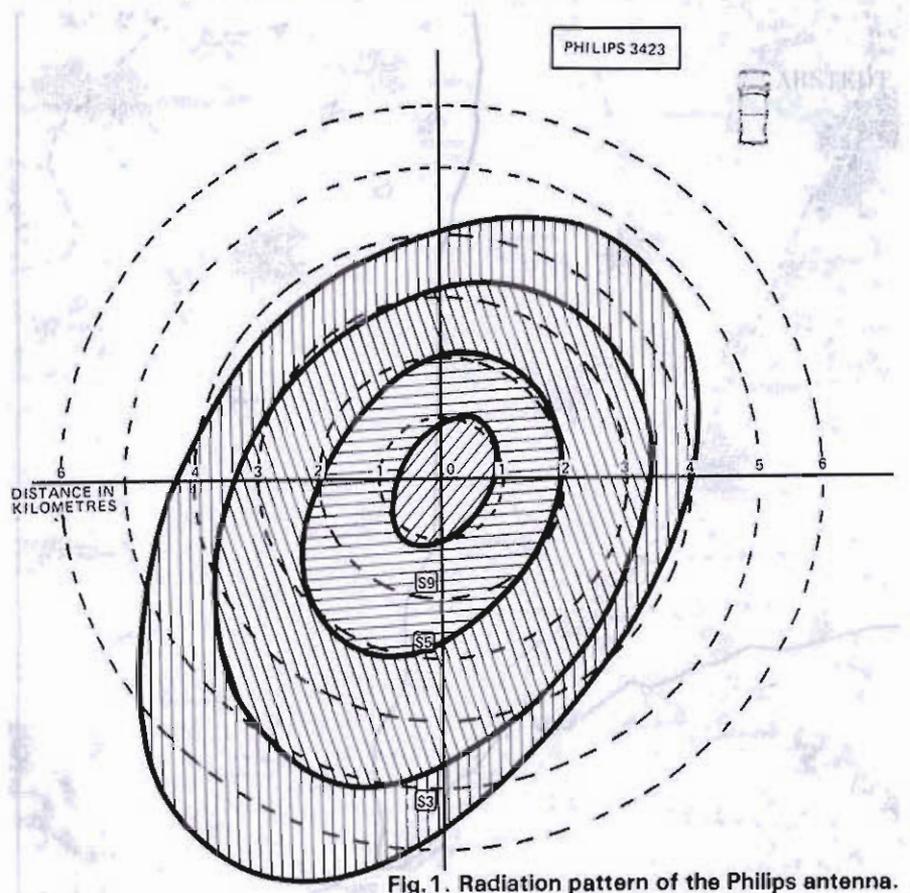


Fig. 1. Radiation pattern of the Philips antenna.

weatherproofed and can be detached in a matter of seconds.

SWR adjustment is again rather curious. A screw-in adjuster on the top of the antenna screws in to an alarming depth, some three inches or so, which can be a bit of a chore especially if the point of adjustment is at one of the extremes. When the antenna is set up, and we were able to get well below 1.2:1 without any problems, we found that it stayed that way throughout our tests. On many of our review samples changes in temperature, humidity, even time of day tended to make the SWR drift. The EN8423 stayed exactly where we set it and this could be due to the adjustment being so fine, ie it takes a dozen or so turns on the adjuster to make any difference on the SWR.

In Test

The EN8423 isn't going to set the world alight with its performance. However, it has a certain edge over some of the cheaper DVs and is a lot better than some base-loaded quarter wave whips we've seen. It is an exceptionally well made antenna and while you're never going to beat a well designed helical mag mount, this antenna works adequately for it to be used in all normal CB applications apart from DX. By the way, it's got one other thing going for it: it looks really classy once you've got over the shape and it would look at home on virtually any car. Give it a try!

GB

Philips 22EN8423 Specifications

Electrical length	¼ wave
Frequency range	26.7 to 28 MHz
Length of element	72 cm
Max power handling	25 W
Cable supplied	4 m 50 ohm
Impedance	50-60 ohm
Supplier	Connexions Maidenhead.
Mounting hole	10 mm

Review Verdict

We rate our samples on a scale of one to five. Five stars is the best, three and four are average to very good, and one or two means it's not doing so well.

Above: Specifications for the Philips 8423.
Right: Our new star rating for antennas, the more the better.
Below: Our test procedure

Performance	XXX
SWR Adjustment	XXXXX
Construction	XXXX
Installation	XXX
Value	XXX

The Tests

We have used our standard test procedure to assess the efficiency of this antenna. Just to bring new readers up to date this involves two tests; one static and one mobile. Our test sample fitted to a stationary mobile and a second mobile follows a pre-arranged route that orbits the stationary test vehicle, sending and receiving signal reports at measured intervals. This is then repeated with the test antenna on the mobile test vehicle and the signals are used in all the tests. With the results obtained we are able to draw up the radiation pattern shown here. This is simplified to make the results more easily understood. The antenna is also subjected to a series of 'lab' tests to assess their durability, quality of construction, etc and finally we hand it over to a panel of CBers for comment.

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All of the details given are, to the best of our knowledge correct. However, with things moving as fast as they do on the CB scene readers are advised to check up first.

Committee members of clubs that have registered with us should inform us as soon as possible as to any changes in addresses, venues etc.

The Directory is listed alphabetically in order of counties, recent geographical boundary changes in some areas are worth bearing in mind when trying to locate a club in a particular area.

We shall be publishing another full directory in three or four months time, next month we shall return to our usual format of publishing the names and addresses of newly registered clubs. Please note that clubs in Wales and Northern Ireland will be featured next month.

The National Directory of CB Clubs

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NATIONAL EMERGENCY SERVICE
PR: Judy Read,
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Bristol BS14 8LX.

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Hockliffe,
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129 Fane Way,
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Berks SL6 2LX.

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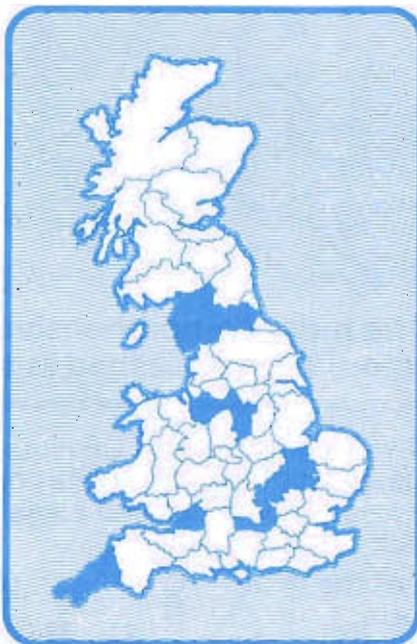
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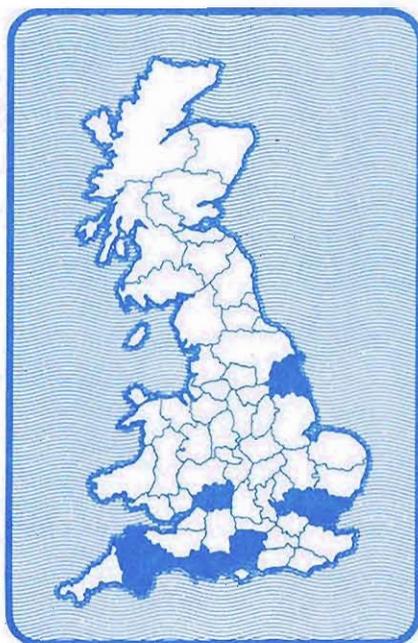
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c/o 24 Mill Lane,
West Thurrock,
Grays, Essex.

QUARRY BREAKERS CLUB
Secretary: Pinball Queen,
c/o Waggon & Horses,
East Street,
Saffron Walden, Essex.

R.I.G.B.I.E.
Secretary: Golden Shot,
Meet: Railway Hotel,
Dagenham.
Tuesday Eves.

RIVER CITY BREAKERS CLUB
Chairman: Big-D,
38 Worcester Road,
Burnham-On-Crouch,
Essex.



SOUTH OCKENDON BREAKERS ASSOCIATION
Secretary: Wildcat,
The Troubador,
Broxburn Drive,
South Ockendon, Essex.

UBA (ESSEX)
Chairman: Ted Chemeler,
24 Bryony Close,
Witham, Essex.

ZEBRA COUNTY BREAKERS
PR: Winnie The Pooh,
c/o The Post Office,
Sible Hedingham,
Essex.

GLOUCESTERSHIRE

THE CITIZENS BAND ASSOCIATION (CBA)
President: James Bryant,
16 Church Road,
St Marks Road,
Cheltenham, Glos G15 1.

CHELTENHAM BREAKERS ASSOCIATION
Chairman: John Baxter,
c/o The Crown & Cushion,
Bath Road,
Cheltenham, Glos.

HAMPSHIRE

BIG A BREAKERS CLUB
c/o: Maureen and Len Cutler,
244 Lyndhurst Avenue,
Tices Meadow,
Aldershot, Hants.

MEON VALLEY BREAKERS CLUB
4 Lawrence Road,
Fareham, Hants.
Alt Mons Rowner Recreation Centre.

POPLEY BREAKERS CLUB
Secretary: Black Widow,
29 Puttenham Road,
Sherfield Park, Chineham,
Nr Basingstoke, Hants.
(0256 5481)

SOUTHAMPTON CB CLUB
Chairman: Demon Driver,
497 Romsey Road,
Matbush, Southampton,
Hants SO1 9GQ.

SOUTHAMPTON CRUMB SNATCHERS
Secretary: Little Boy Blue,
7 Middle Road,
Sholing, Hants.
(Tel. 0703 446095).

TOAD HALL BREAKERS
Chairman: Arabian Cowboy,
c/o Roundabout Hotel,
Wallington Shore Road,
Fareham, Hants.

VICTORY BREAKERS
Chairman: Country Boy,
9 Mayhall Road,
Copnor,
Portsmouth, Hants.

WARTER WAY BREAKERS
Chairman: Weedcutter,
64 Picket Close,
Fordingbridge,
Hants.
Churchill Arms Alderholt.

10-36 KETTLE KLUB
Secretary: Ivor The Engine,
PO Box 24,
Kidsborough,
Hants.

HERTFORDSHIRE

BARNET BREAKERS CLUB
Secretary: November 1,
c/o Discount CB,
148a East Barnet Road,
New Barnet, Herts.
Sun 8pm Barnet Football Club.

BRICKET BREAKERS CLUB
Watford Component Centre,
7 Langley Road,
Watford, Herts.

DIAMOND BREAKERS CLUB (STEVENAGE)
Secretary: Mrs P. Gregory,
16 West Close,
Stevenage,
Herts SG1 1PW.

HEMEL HEMPSTEAD BREAKERS CLUB
Secretary: Heather Rutt,
2 Crofts Path,
Hemel Hempstead,
Herts.

NORTH HUMBERSIDE

BRIDGETOWN BREAKERS
PR: Desperate Dan,
c/o Phoenix Social Club,
Hessle Road, Hull,
N Humberside.

DOWNE TOWN BREAKERS
PR: Bootlegger,
67 George Street,
Snaith, Nr Goole,
N Humberside.

EASTSIDE BREAKERS CLUB
Chairman: Pipebender,
c/o The Silver Moon Club,
Chamberlain Road,
Hull.

FISHTOWN FOXHUNTERS

Chairman: Dennis Beedham,
133 Yarborough Road,
Grimsby, South Humberside.
Alt Suns Etherington Arms.

LA BREAKERS

Chairman: Midget Man,
Unit 13, Carlton Industrial Estate,
Hawthorn Avenue, Hull.
(0482 227130).
Alt Weds Lockwood Arms.

MAYFLOWER BREAKERS

Secretary: Aunt Sally,
Immingham,
S Humberside.

THE WESTPOINT BREAKERS

Secretary: Dave Kemp,
c/o The Ferryboat Inn,
Hessle,
North Humberside.

ISLE OF MAN

ISLE OF MAN CB CLUB

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

10M NORTHERN BREAKERS

Secretary: Gravedigger,
PO Box 19,
Ramsey, Isle Of Man.
Mons 7pm Grand Island Hotel.

KENT

EAST KENT BREAKERS ASSOCIATION

PRO: A.A. Jemmett,
PO Box 81,
Canterbury,
Kent CT1 2XG.

GHOST TOWN BREAKERS

Chairman: Straw Dog,
33 Goeson Road,
Herne Bay, Kent.
Mon Bun Penny.

MARKET TOWN BREAKERS CLUB

Secretary: Clay Pigeon,
PO Box 2,
Ashford,
Kent.

MID KENT CB CLUB

Chairman: Colin McKay,
18 High Street, Charing,
Ashford, Kent.

SOUTH LONDON ASSOCIATED BREAKERS 27

(SLAB 27)
Chairman: Clockwork Orange,
Welling.

SPIRETOWN BREAKERS

Chairman: Dusty Bin,
36 Church Lane,
Calow,
Chesterfield.

STAR GATE DXers

PR: Dragonfly,
Canterbury Road,
Herne Bay,
Kent.

UNITED KINGDOM CITIZENS BAND CAMPAIGN

Chairman: Bernie Murray,
32 Downbank Avenue,
Barnhurst, Kent DA7 6RP

UNITED KINGDOM CB FEDERATION

PR: Steve Perry,
97 Hook Lane,
Welling, Kent.
(Tel. 303 0979 or 658 0127).

WEST MALLING BREAKERS

Secretary: M. Woodward,
c/o The Clubhouse,
The Airfield Club,
Westmalling, Kent.

WHITE CLIFFS BREAKERS ASSOCIATION

Secretary: Blue Jon,
PO Box 13,
Dover,
Kent CT16 1UA.

LANCASHIRE (MANCHESTER)

ATHERTON BREAKERS CLUB

Chairman: Handball,
11 Ramsey Close,
Atherton, Nr. Manchester,
Lancs.

CANYON BREAKERS

Chairman: Iceberg,
25 Newchurch Street,
Rantestall,
Rossendale BBA 7QX.

CBA MANCHESTER

Hon Sec: M.C. Cullen,
12 Westwood Road,
Stretford,
Manchester M32 9HX.

CLOGTOWN CLAYPIT BREAKERS CLUB

Secretary: Compo,
c/o 22 Romiley Crescent,
Brightmet, Bolton,
Lancs.

CLOG TOWN BREAKERS

Secretary: Sex Kitten,
c/o 33 Pendle Court,
Astley Bridge,
Bolton BL1 6PX.

COPY CATS CLUB

Martholme Grange,
Altham, Accrington,
Lancs.



FLIXTON, URMSTON, & DAVYHULME GOOD

BUDDIES ASSOCIATION
PO Box 2,
164-166 Corn Exchange Buildings,
Manchester 4.

GBA

Chairman: Bob,
Coronation Service Station,
Middleton Road,
Heywood, Lancs.

MOONRAKER JUNIOR BREAKERS

PR: Drifter,
17 Lizmar Terrace,
Moston, Manchester M9 1WG.

NORTH MANCHESTER CB CLUB

Pro: Blaster Bates,
Belmont Hotel, Middleton Road,
Crumpsall, Manchester 8.
(Meet alternate Mondays 8 pm)

NORTH WEST BREAKERS ASSOCIATION

c/o 8 Longhill Walk,
Moston,
Manchester M10 9NT.

OPEN CHANNEL CB CLUB, PRESTON AND

DISTRICT
(Formerly Preston CB Club)

Chairman: F. W. McKeown,
Secretary: S.J. Battersby,
(address below)
17 Coronation Street,
Blackburn, BB1 6BS.

RIBBLE BREAKERS ASSOCIATION

Chairman: D. Cusack,
95 Hennel Lane,
Walton Le Dale,
Preston PR4 5LE.

SADDLESWORTH BREAKERS CLUB

Chairman: Man In A Suitcase,
51 Gladstone Terrace Road,
Greenfield, Nr. Oldham.

SOUTH MANCHESTER BREAKERS CLUB

Chairman: R2D2,
'El Pateo',
Stretford Arndale Centre,
Stretford, Manchester.

SOUTH WEST LANCS BREAKERS

Soc Sec: Tattoo,
c/o 14 Cornbrook,
Holland Moor 2,
Skelmersdale, Lancs WN8 9AQ.

TELFORD CB RADIO CLUB

Chairman: P. McGuiness,
192 Bishopdale,
Brookside, Telford.

UBA (NE)

Chairman: B.D. Low,
53 Mayfield Avenue,
Lancaster.

WYRE BREAKERS CLUB

PR: Ironside,
Thornton Le Fylde,
Lancs. (Call Ch 27)

99 CLUB

PR: Sea Cat 1,
Shades Night Club,
Grosvenor Street,
Stalybridge, Nr Manchester.

LEICESTERSHIRE

HART OF ENGLAND CB CLUB

Secretary: Mrs S.K. Wilson,
58 Clarendon Road,
Hinckley,
Leicestershire.

HINCKLEY BREAKERS CLUB

Secretary: Miles Richardson,
8 Gladstone Close,
Swallows Green,
Hinckley, Leics.

LEICESTERSHIRE CB'ers

Chairman: Crapsfootier,
c/o Modern Motoring Ltd.,
68 Narborough Road,
Leicester LE3 0BR.

SOAR VALLEY BREAKERS

PR: D. Wiltshire,
30 Castle Road,
Mountsorrel,
Loughborough, Leics.

LINCOLNSHIRE

CATHEDRAL BREAKERS CLUB

Secretary: Jim Curry,
60 Middlebrook Road,
Lincoln LN6 7JU.

CHURCH TOWN BREAKERS CLUB

Chairman: Master Builder,
Stamford,
Lincs.

GBA (GAINSBOROUGH)

Secretary: Mickey Mouse,
c/o Marshals Social Club,
Gainsborough,
Bristol BS14 8LX.

GRANTHAM BREAKERS ASSOCIATION

Secretary: The Listener,
8 Parklands Drive,
Harlaxton, Grantham,
Lincs LN32 1HX.

HERWARD BREAKERS CLUB

Chairman: Douglas Hall,

South Farm Cottages,
School Lane, Edenham,
Lincs.

NATIONWIDE BREAKERS CLUB
Secretary: Yankee Doodle,
Tentercroft Street,
Lincoln.

TOM THUMB BREAKERS CLUB
Chairman: Black Ball,
c/o The Ship Inn,
Horncastle,
Lincolnshire.

VALLEY TOWN BREAKERS
Secretary: Maid Marion,
c/o The Ship & Horns,
Louth,
Lincs LN9 6ET.

LONDON

ACE BREAKERS CLUB
Secretary: 240 Robert,
Pelton Arms (Wednesdays 8 pm),
Pelton Road, Greenwich,
London.

BIG E CLUB
PRO: Rubber Plant,
Devonshire Hall,
Devonshire Hill Lane,
Tottenham, London N17.

CITIZENS BAND RADIO ACTION GROUP
Chairman: Steve James,
55 Dartmouth Road,
Forest Hill SE23.

CITIZENS BAND INFORMATION CENTRE
Bill Ridgeway,
7 Sandringham Crescent,
Harrow,
Middlesex HA2 9BW.

CRIS
Director: Louise Briscoe,
55b Brook Drive,
Southwark,
London SE11 4TU.

HARROW AND WEMBLEY CB GROUP
Secretary: David Hughes,
26 Greenway,
Kenton,
Middx HA3 0TT.

NORTH LONDON BREAKERS ASSOC (UBA)
Secretary: G.F. Coxshall,
19 Deepdene Court,
Winchmore Hill,
London N21 2NH.

NORTH LONDON BREAKERS CLUB WILLESDEN BRANCH (CLUB 14)
Chairman: Star Rider,
6 Granville Point,
Granville Road,
Childs Hill, London NW2 2LJ.
Thurs 8 pm Spotted Dog.

10-4 CLUB,
Secretary: Ian Leslie,
BN/10.4
London WC1.

UNITED BREAKERS ASSOCIATION (UBA)
Chairman Andy Donovan,
50 Gaskell Street,
Clapham SW4.

MERSEYSIDE

BOTTLE CITY BREAKERS
Secretary: Barry Hatton,
22 Robinson Place,
St Helens,
Merseyside.

GRASS COURT BREAKERS CLUB
Secretary: Small Fry,
14 Winston Avenue,
Newton-le-Willows,
Merseyside.

HEAVY LOAD BREAKERS ASSOCIATION
Hon Sec: Bobcat,
Huyton Area,
Liverpool.
(Call CH 19).

LIVERPOOL BREAKERS ASSOCIATION

Chairman: Sunseeker,
c/o 72 Ashfield,
Wavertree,
Liverpool 15.

MERSEYSIDE 27 CLUB
PRO: Golden Eagle,
c/o 34 Micklefield Road,
Liverpool 15.

ST HELENS CB CLUB
33 Broadway,
Grange Park,
St Helens,
Merseyside.

WIRRAL CB ASSC CLUB
Secretary: Pat Sears,
31 Belgrave Street,
Liscard, Wallasey,
Merseyside L44 1BP.

NORFOLK

BORDER BREAKERS CLUB
PR: Heathcote,
c/o Cathedral Garage,
Weybread, Harleston,
Norfolk.

CANARY CITY BREAKERS CLUB
PRO: M.G. French,



16 Meadow Close,
Helliesson,
Norwich, Norfolk.

KINGS LYNN BREAKERS CLUB
PR: Maverick,
1 The Point,
North Lynn, Kings Lynn,
Norfolk.

NORWICH SOCIAL BREAKERS CLUB
PR: Dragonfly,
c/o 30 Bassingham Road,
Norwich.

TYNE & WEAR

CB-NE
Chairman: Ian Morrison,
89 Hareydene,
Newcastle,
Tyne & Wear, NE5 4QH.
(0632-862900).

WEST END BREAKERS
Chairman: Ian Morrison,
The Newbiggin Hotel,
(Thursdays 7.30 pm),
Newbiggin Hall Estate,
Newcastle.

NORTHAMPTONSHIRE

BOOMERANG BREAKERS CLUB
Chairman: Trade Plate,
The White Lion,
Moulton,
Northampton.

CORBAY TOWN BREAKERS CLUB
Secretary: White Knight,
44 Cransley Gardens,
Corley,
Northants.

DAVENTRY BREAKERS CLUB
Chairman: Gavin Foster,
33 The Wye,
Daventry.

NORTHAMPTON BREAKERS CLUB
PRO: Santa,
400 Obelisk Rise,
Northampton.
(0604 36790 daytime).

NOTTINGHAMSHIRE

BREAD AND LARD ORIGINAL BREAKERS (BLOB)
PR: Heavy Spanner,
Test Match Hotel,
Gordon Square,
West Bridgeford,
Nottingham.

BULWELL AND HUCKNELL BREAKERS CLUB
Secretary: Mrs C. Willetts,
14 Thorndale Road,
Stockhill, Basford,
Nottingham.

CARLTON & LANGOLD UNITED BREAKERS
Secretary: Florence,
Langold Hotel,
Langold, Worksop,
Notts.

DIXIE TOWN BREAKERS CLUB
PR: Valentine,
c/o Festival Inn,
Trowell,
Notts.

HUCKNALL WELFARE BREAKERS CLUB
PR: Screwdriver,
Hucknall & Linby Miners Welfare,
Portland Road, Hucknall,
Nottingham.

INDEPENDENT TOP VALLEY CB CLUB
Secretary: The Coachman,
c/o Bestwood Lodge Hotel,
Bestwood Lodge Drive,
Arnold, Notts.

LEAPOOL BREAKERS CLUB
PR: Urban Cowboy,
c/o The Maid Marion,
Copice Road, Arnold,
Nottingham.

MANSFIELD EXECUTIVE BREAKERS CLUB
Secretary: Adrian Wagstaff,
62 Bagshaw Street, Pleasley,
Mansfield, Notts. (Man. 810089).
Weds 8.45 Brown Cow Pub.

NACB CLUB
Chairman: K.J. Stabler,
14 Wilford Crescent West,
The Meadows,
Nottingham.

NEWARK BREAKERS CLUB
Secretary: Shady Lady,
23 Wolsey Road,
Newark,
Notts.

NORTH NOTTS BREAKERS
Secretary: J.H. Stanley,
4 Farm Grove, The Paddocks,
Theivesdale Lane,
Worksop, Notts.

REDHILL RADIO BREAKERS CLUB
PR: J. Towriess,
c/o The Ram Inn, Mansfield Road,
Redhill, Nottingham.

TRENT BREAKERS
Secretary: Jennifer Boler,
58 Oak Avenue.

Radcliffe-on-Trent,
Nottingham.

TV CLUB
Secretary: Little Bo,
PO Box 7,
Long Eaton,
Nottingham NG10 2DB.

OXFORDSHIRE

ABINGDON GAOL BREAKERS
Chairman: Skywave,
c/o Crown & Thistle,
Bridge Street,
Abingdon, Oxon.

QUARRY BREAKERS CLUB
Heddington,
Oxford.
(Oxford 65975)

THAMES VALLEY BREAKERS
PRO: The Trucker,
Wheatley Bridge Hotel,
(Thursdays 8 pm),
Wheatley, Oxon.

SHROPSHIRE

BREWERY TOWN BREAKERS
Secretary: Mrs S. Holliday,
Flat 5, 50 High Street,
Wem,
Shropshire.

SEVERN CITY BREAKERS CLUB
Chairman: Gander,
(Tuesdays fortnightly at Tiffanys),
PO Box 2,
Shrewsbury.

SEVERN CITY BREAKERS CLUB
Instigator: Rainbow,
Oakdene, Shepherds Lane,
Bicton, Shrewsbury SY3 BBT.

SOMERSET

CBA SW
Chairman: D.J. Bennet,
7 Wookey Hole Road,
Wells, Somerset.

CIRCLE CITY BREAKERS CLUB
PR: T.C. Masters,
8 Easthams Road,
Crewkerne,
Somerset TA18 7AQ.

SOUTH SOMERSET BREAKERS (SSB)
Secretary: Tokyo Rose,
c/o 19 Vincent Street,
Yeovil,
Somerset.

STAFFORDSHIRE

BURTON AND DISTRICT RADIO CLUB
Chairman: D. Allen,
6 Rosliston Road, Stapenhill,
Burton-On-Trent, Staffs.

CHINA TOWN BREAKERS CLUB
1, Meadowside Avenue,
Stoke-on-Trent,
Staffs.

QUIET BREAKERS CLUB
Chairman: Zulu,
Alt Mons 7 pm The Social Club,
Stallington Lane, Blyth Bridge,
Stoke-on-Trent, Staffs.

TAMWORTH AND TAME VALLEY CB CLUB
Chairman: Pickpocket,
Belfry Hotel, Wishaw,
Nr Tamworth.

THREE STYX BREAKERS CLUB
Secretary: Rommel,
24 Ferndale Road,
Lichfield, Staffs WS13 9DJ.
Alt Thurs 7.30 Enots Sports & Social Club.

UTTOXETER BREAKERS CLUB
Secretary: Kennel Meid,
32 Goldhurst Drive,
Lower Tean,
Stoke-on-Trent.
Alt Weds 8 pm.

SUFFOLK

ANGLIA BREAKERS CLUB
The Great White Horse Hotel,
Travern Street,
Ipswich, Suffolk.
(7.30 pm second Sunday each month)

BURY CITIZENS BAND CLUB
Secretary: Shady Lady,
Ripley House Hotel,
Northgate Avenue,
Bury St Edmunds,
Suffolk.

JOLLY BREAKERS CB CLUB
Secretary: Lynne Houghton,
10 Viburnum Green,
Lowestoft,
Suffolk NR32 2SN.

NESS POINT CEE BEE CLUB
Chairman: M.A. Thacker,
77 Ship Road,
Lowestoft.
Meet at Oulton Broad Sporting Club, Thursday
nights.

NEWMARKET/SUFFOLK CB CLUB
Golden Lion Hotel,
High Street,
Newmarket,
Suffolk.



SURREY

BREAKERS TOWN CB CLUB
Secretary: Plaxton,
c/o Stanley Club,
Stanley Road,
Cershalton, Surrey.

BIG BEN QSL CLUB
President: Jim Glavin,
14a Bridge Street,
Godalming, Surrey GU7 1HY.

BREAKERS YARD CB CLUB
Secretary: Lightfoot,
Mon 7.30 The St Helier Arms,
Carshalton, Surrey.

BRITISH CONCORDE QSL CLUB
President: Julie Newbold,
187 Walton Road,
East Molesey,
Surrey KT8 0DY.

BUGS BUNNY GIVE US A NINE CLUB
Hand in Hand (Thursdays 8 pm),
Boxhill Road,
Boxhill, Surrey.

G-FORCE
Secretary: Judith Styles,
273 Park Road,
Kingston-Upon-Thames.

Surrey KT2 5LW.
Mon Malden Manor Pub.

MOLESEY OPEN BREAKERS
Wednesday nights at 8 pm,
Royal Oak in Molesey.

WOKING CENTRE BREAKERS
Secretary: The Argonaut,
c/o The Jovial Sailor,
Ripley,
Surrey.

SUSSEX

BIG FOUR CLUB
Secretary: Steve Barker,
40 Brunswick Square,
Hove BN3 1EF,
East Sussex.

BRITISH SIDEBAND NETWORK
Chairman: A. Vickers,
15 Carman Walk,
Broadfields,
Crawley, West Sussex.

CB BACKPACKERS
Chairman: Kevin Jones,
95b Marina,
St Leonards-On-Sea,
East Sussex TN38 0BL.

GOLF LIMA MOBILE LOWBAND DX CLUB
Chairman: Streetfighter,
3 Alderbrook Cotts,
Stone Cross Road,
Crowborough, East Sussex.
Fri Crow & Gate.

HARBOUR BREAKERS CLUB
Secretary: M.F. Lynch,
The Harbour Tavern,
Transit Road,
Newhaven, Sussex.

HASTINGS BREAKERS
Secretary: Kevin Jones,
c/o 95b Marina,
St Leonards-On-Sea,
East Sussex TN38 0BL.

SEAFORD BREAKERS
PR: Zodiac,
The Beachcomber,
Oane Road, Seaford.
(Tel. 89746B).

SQUARE WEALD BREAKERS
PR: Wombat,
Fox & Hounds,
Haywards Heath, Sussex.
(Meet 8 pm Thursdays).

WARWICKSHIRE & WEST MIDLANDS

ALPHA 5 CBRC
Secretary P. Mason,
30 St Andrews Avenue,
Pelsall,
Walsall WS3 4EN.

BLACK COUNTRY BREAKERS
Chairman: Goldfish,
c/o 21 Spring Hill,
Birmingham B18 78H.

BORDERLINE BREAKERS CLUB
Chairman: Serviceman,
13 York Crescent, Darlaston,
West Midlands WS10 9JJ.
Meat Moxley Arms weekly.

BSA CLUB
Chairman: Ziggy Stardust,
c/o 23 Henry Road,
Yardley,
Birmingham B25 8AH.

CAMPAIGN FOR BRITISH CITIZENS BAND (CBCB)
Chairman: Keith Townsend,
1163 Yardley Wood Road,
Birmingham B14 4LE.

CENTRAL ENGLAND BREAKERS ASSOCIATION
PR: Cruiser,
c/o Club Lafayette,
Thornley Street,
Wolverhampton.

EAST COVENTRY CB CLUB

Chairman: M.P. Harris,
260 Blackberry Lane,
Wyken, Coventry,
Warwickshire.

FIVE POOLS BREAKERS CLUB

PR: Daytons,
Hegley And Blakedown,
Stourbridge, W Midlands.

HARTSHILL CB CLUB

(Shakeytown Breakers)
Chairman: D.S. Alched,
c/o Conservative Club,
Chapel End, Nuneaton, Warks.

JUNIOR BREAKERS CLUB (COVENTRY)

Chairmen: Mark Cleaver,
Clifford Bridge Road Scout HQ,
Clifford Bridge Road, Coventry.

MAIN LINE BREAKERS CLUB

Secretary: Speedy,
c/o Saracens Rugby Club,
Bredon Avenue,
Ernesford Grange, Coventry.

NORTH BIRMINGHAM CB CLUB

Secretary: Bob Barber,
58 Foulmore Road,
Great Barn,
Birmingham B24 2EA.

NORTH COTSWOLD CB CLUB

23 Greenhill Street,
Stratford-on-Avon.

NORTH COTSWOLD CB CLUB

Secretary: Scott Lewis
25 Greenhill Street,
Stratford-Upon-Avon,
Warwickshire.

OPEN CHANNEL CLUB COVENTRY

Chairman: B.R. Glay,
87 Sedgemoor Road,
Coventry CV3 4EA.

PELSALL GOOD BUDDYS CLUB

Secretary: Zone Master,
Old Bush, Pelsall,
Walsall.

POSH TOWN BREAKERS

Secretary: Red Baron,
30 Springfield Road,
Attleborough, Nuneaton,
Warwickshire.

SHAKEY TOWN BREAKERS

Secretary: S. Collins (Miss),
The Maudsley Social Club,
Great Ave, Nr Alcester,
Stratford-upon-Avon.

SKY BLUE CITIZENS BAND CLUB

Chairman: Tony Beard,
74 Hartlepool Road, Coventry,
Mons Coventry City Football Club.

SOUTH BIRMINGHAM CBC

Chairman: P. Jacques,
23 Prince Of Wales Lane,
Yardley Wood, Birmingham B14 4LB.
(021 474 6325).
Fortnightly Solihull Civic Hall.

SQUARE FOUR CB CLUB

Chairman: R.M. Kemp,
90 St Leonards View,
Polesworth,
Warwickshire.

WARRINGTON & LEAMINGTON CB ORGANISATION

Chairman: Racer,
PO Box 6,
Leamington Spa CV32 6SB.

WKCB (COVENTRY)

Chairmen: M. Dunter,
125 North Street,
Coventry.

WEST MIDLANDS

LEA DRE CB RADIO CLUB

Secretary: S.M. Heighton,
c/o Ye Olde Trooper,
Harden Road, Leamore,
Walsall, W Midlands.

MCBRC

Chairman: R. Hopkins,
85 Allens Lane,
Pelsall, Walsall,
West Midlands.

SANDWELL AREA CB CLUB

PRO: Karen Hocknull,
4 Baldwin Close,
Tividale, Wareley,
West Midlands.

WILTSHIRE

SWINDON CB CLUB

Chairman: Dave Broadbridge,
23 Alteck Close,
Toothill, Swindon,
Wilts SN5 BDF.

THAMESDOWN TRANSCEIVER CLUB

Chairman: D. Porter,
44 Belsay,
Toothill,
Swindon.

WORCESTERSHIRE

KIDDERMINSTER SOCIAL BREAKERS

Chairman: Girbil,
Tues 8 pm Kidderminster Social Club,
Churchfields, Kidderminster.



KING CHARLES HAMMERS CBC

Secretary: Jungle Bunny,
PO Box 38,
Worcester.

NEWTON BREAKERS CLUB

Chairman: Dean The Dick,
16 Abberley Close,
Church Hill, Redditch.
Tues 8 pm Book & Candle.

REDDITCH AREA CB CLUB

Secretary: L. Gazely,
c/o Reins Bungalow,
Oak Tree Lane,
Sambourne, Worcs.

STOURPORT ON SEVERN BREAKERS CLUB

Chairman: Compass,
c/o Old Anchor, Worcester Road,
Stourport-On-Severn, Worcs.

WYE FOREST BREAKERS

Chairman: C. Cox,
19 Chowson Pieck,
Chowson Estate, Droitwich.

YORKSHIRE

AIRE VALLEY BREAKERS

Secretary: Ms C. Cardwell,
53 Albert Road,
Saltaire, Shipley,
W. Yorks.

BIG H LUDDITES

Secretary: D.A. Jappy
6 Fieldhouse Road,
Huddersfield HD1 6NX.

BLACK HOLE BREAKERS CLUB

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S. Yorks.

BRAITHWELL RIG AND TWIG CLUB

Secretary: Wild Honey,
10 Ravill Close,
Maltby S66 BBN.

BRAMLEY AND DISTRICT CB BREAKERS CLUB

President: Shanty Man,
6 Ferncliffe Terrace, Bramley,
Leeds LS13 3PN, Yorks.

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Chairman: Weather Men,
71 Sunny Bank Crescent,
Brinsworth, Rotherham,
South Yorks.

DERWENT BREAKERS CLUB

President: Desperate Dan,
23 Moorfield Drive,
Wilberfoss, York.

DIAMOND BREAKERS CLUB

Secretary: Crackerjack,
c/o 7 Hutton Drive,
South Elmshall,
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Secretary: Lady S,
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South Anston, Sheffield.

DOCKLANDS BREAKERS CLUB

Secretary: A. Cooke,
8 Gifford Street,
Middlesbrough,
Cleveland.

DDN VALLEY BREAKERS

282 Ecclehall Road,
Sheffield S11 8PE.

FIVE BRIDGES BREAKERS CLUB

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Heptonstall WMC,
(Wednesdays fortnightly),
Hebden Bridge, W Yorks.

HAMLET BREAKERS

Chairman: Green Arrow,
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Alt Mons Royal Oak.

HORNBLOWER OPEN CHANNEL CLUB

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Ripon, Yorkshire.

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Chairman: Yellow Mac,
Escrick Sociel Club,
Yerk.

MALTBY CAMPAIGNERS FOR OPEN CHANNEL RADIO

Chairman: Mr M. Ironmonger,
14 Shaftsbury House, St Anns Flats,
Rotherham, S Yorks S65 1AX.

MILKTOWN BREAKERS

Secretary: Speedbird,
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Huddersfield, W Yorks.
Sun Vanity Fair Disco Bradford Road.

NORTHERN ASSOCIATION OF CB CLUBS

PR: John Hardy,
19 Lings Lane, Hatfield,
Doncaster, S Yorks.

PIRATES CBC

Chairman: Monster,
Thurs 8 pm The Mill,
Halfway, Sheffield.

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Secretary: A. Cooke,
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Middlesbrough,
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TRENTSIDE BREAKERS CLUB

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Moss Villa, Belton,
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UNITED BREAKERS NATIONAL

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Keighley BD21 5NJ,
W. Yorks.

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Wetherby, West Yorks.

WOOL TOWN BREAKERS CLUB

Secretary: Fishtank,
The Old Cobbler,
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WORTH VALLEY BREAKERS

B. Widdop,
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YORKSHIRE ELITE BREAKERS

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Dunbeg, Connel,
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KINTYRE BREAKERS CLUB

PR: Bash Street Kid,
Sundown,
Tarbet,
Argyll PA29 6YF.

DUMFRIES & GALLOWAY**RED AND BLUE BREAKERS CLUB**

Secretary: Stephen Compton,
92 George Street,
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60 Tulloch Terrace,
Hillyland,
Perth PH1 2PS.

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Secretary: Gordon Grieg,
8 Gallachar Place,
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Fife.

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Fintry,
Dundee.

GRAMPIAN**COUNTY AREA BREAKERS CLUB**

Vice Chairman: Tony Blues,
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Ardersier,
Inverness IV1 2RY.

GRAMPIAN BREAKERS CLUB

Secretary: R.T. Strachan,
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GRANITE CITY CB CLUB

Secretary: W.D. McBain,
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Aberdeen.

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Secretary: Thunderbolt,
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Egin, Moray District IV30 1LT.

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Bearsden, Glasgow G61 2LR.

BOULEVARD BREAKERS CLUB

PR: William Snell,
56 Kirkdale Drive,
Glasgow G52 1ET.

CBA SCOTTISH REGION

Ron Warbrick,
10 Manse Road,
Stone House,
Lanarkshire.

CENTRAL 27 BREAKERS CLUB

PR: A. Robert Millner,
c/o The Bruce Inn,
Nr Landmark,
Springkerse Road, Stirling.

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Eyeball: Big V,
Wednesdays & Saturdays 8 pm.

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President: Ian Patterson,
147 Trossachs Road,
Rutharglen,
Glasgow.

GLASGOW CB CLUB

Chairman: D. Docharty,
361 Hallhill Road,
Glasgow G33 4RY.

GREATER GLASGOW BREAKERS

Chairman: Bob Snell,
71 Glenett Street,
Glasgow G41 2LG.

GLASGOW CB CLUB (CBA)

Chairman: Normund Crem,
3 Erskine Road, Whitecraigs,
Glesgow G46 6TQ.

HAZZARD COUNTY BREAKERS

Secretary: Rosemarie Potts,
c/o Oakshaw Hall, School Wynd,
Paisley, Renfrewshire.

MONKLANDS BREAKERS CLUB

Chairman: Peter Mulheron,
78 South Commonhead Avenue,
Airdrie, Lanarkshire.

NORTH SEA BREAKERS

Secretary: The Druid,
27 Zena Straet,
Glasgow G33.

21 GOLD

Chairman: Daniel Hume,
311 Faifley Road,
Faifley, Clydebank.

MIDLOTHIAN**EDINBURGH CB RADIO CLUB**

Secretary: Jim Martin,
22 Ross Gardens,
Edinburgh, EH9 3BR.

STRATHCLYDE**VOICE OF SCOTLAND INTERNATIONAL DX CLUB**

Secretary: Fred Roe,
(Kilmarnock 0563 31327).

CLWYD**27 COASTLINE BREAKERS**

PR: Mike Curtis,
PO Box 24,
Rhyl, Clwyd,
N. Wales.

DYFED**AMMAN VALLEY BREAKERS CLUB**

Secretary: Pikity Witch,

B9 Betws Road,
Ammanford, Dyfed.
(0269 5768).

Thurs 8 pm Bettws Recreation Club.

GWENDRAETH VALLY 14 CLUB

Secretary: Silver Pearl,
'Odin', Gorse Road,
Upper Tumble, Llanelli,
Dyfed.

LLANDYBIE BREAKERS CLUB

Chairman: The Pipe Bender,
90 Caecoed Llandybie,
Ammanford, Dyfed,
South Wales.
Mons 7.30 Red Lion.

LLANELLI CBC

PR: Dodger,
14 Gorsedd,
Llwynwilwg,
Llanelli, Dyfed.

LLANELLI & DISTRICT BREAKERS CLUB

Secretary: Diamond Lady,
40 Coleshill Terrace,
Llanelli, Dyfed.

LLANDEILO 14 CLUB

Secretary: Curly Tops,
Gofar-Glas,
Maes-Y-Bont, Llanelli,
Dyfed SA14 7HH.

SANDERSFOOT & DISTRICT BREAKERS CLUB (SAD)

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Cardiff.

DIXIELAND BREAKERS

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Pentwyn,
Cardiff.

GOWER BREAKERS CLUB

Secretary: David Rogers,
PO Box 12,
Swansea,
South Wales.

LOWER RHONDDA BREAKERS CLUB

Secretary: Kastrel,
c/o 40 Birchgrove, St Porth,
Rhondda, Mid Glamorgan,
S. Wales.
Alt Tues 7.30 Rafa Club Porth.

MID GLAMORGAN BREAKERS

PR: Sleeper,
c/o Golden Numbars CB Centra,
40 Wood Road,
Treforest, Pontypridd.

RHONDDA BREAKERS CLUB

Secretary: White Lightning,
35 Shady Road,
Gelli, Rhondda,
S. Wales.

SANDRINGHAM BREAKERS CLUB

Secretary: Mr T. Morgan,
7 Mountain View, Tynnewydd,
Treoerchy, Rhondda Valley,
Mid Glamorgan CF42 5LU.

SOUTH WALES BIG 10-4 CLUB

Chairman: Mika Lambert,
139 Manselton Road,
Manselton, Swansea.
(Swansea 42371).
Weds 8 pm Liansamlet Club.

WEST GLAMORGAN BREAKERS ASSOCIATION

Secretary: G. Bunce,
25 Plas Nowydd,
Baglan Moors, Port Talbot,
West Glamorgan SA12 7DF



Note: Next month we shall publish a list of clubs from Wales and Northern Ireland.

Have you heard about CB? Citizens' Band radio is to be legalised this Autumn; yes, that's right, our very own personal two-way radio system that can be used in the car, the home — anywhere. As you can imagine, CB will be a real boon to the motorist, the housebound, those who go for outdoor activities — and don't forget that CB can save lives!

With all this in mind **Citizens' Band** magazine, the country's leading CB publication, will be holding a **major** CB exhibition in September, timed as closely as possible to coincide with legalisation. If you want to know more about CB, or you are a CBer, come along to the Royal Horticultural Hall on 11th, 12th, 13th September and see Britain's biggest ever CB show.

1st NATIONAL CB citizens' Band SHOW!

There will be stands and exhibits from many of the country's leading CB accessory dealers plus, for the first time ever, working examples of the new legal rigs that will be on sale this Autumn. That's right, a number of manufacturers and importers will be on hand to show the new CB equipment that almost anyone can buy and use.

There's something for everyone, CBers old and new. The latest accessories and antennas, gadgets — in fact everything connected with CB including the new equipment.

Come along in September and see what CB can do for you. Even if you've never heard of CB, you soon will, so don't miss out — whether you're a motorist or a small businessman with an eye to the future, CB is for you! CB is the future of two-way communications

BRITAIN'S FIRST NATIONAL CB SHOW!

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This is the BIG ONE for breakers. Whether you're a confirmed fanatic or an interested beginner, this is the place to be in September!

OPENING TIMES

Friday 11th Sept **10am-7pm**
Saturday 12th Sept **10am-6pm**
Sunday 13th Sept **10am-4pm**

When the unthinkable — nuclear war — happens, could CB be of use? Alastair Watts, publisher of *Protect & Survive Monthly*, and Eran Bauer, of *Civil Defence Supplies*, look at the possibilities

CB and CIVIL DEFENCE

(or modulatin' after the bomb)



At 3.21 am the red phone in the Prime Minister's bedroom rang. She struggled to switch on the light and find the telephone. All of which wasted 30 seconds. The urgent voice woke her up with a jolt. "Red warning", the clipped military tones at the other end of the line said. There was a knock on the door, and an aide appeared with the scrambler phone.

Suddenly, she knew. Knew that despite all the diplomacy, all the effort in the last few weeks, World War III had broken out. And, as she began to speak to Washington, she knew no more. A massive explosion vaporised her, 10 Downing Street and a three-mile square area of Central London. A hurricane force wind reached as far as the outer suburbs, tearing down everything in its path. On the outskirts of London, in the country towns and villages, on farms and housing estates, the population of Britain slumbered on, unaware that Armageddon was finally to hand.

After London, Birmingham, Portsmouth, Newhaven, Tilbury, Sunderland, Cardiff, Port Talbot, Liverpool and most of East Anglia followed. Then Glasgow, the Clyde estuary, Aberdeen and Dundee. Londonderry's troubles ended forever. Plymouth, Milford Haven, Leeds and Bradford followed.

By dawn silence reigned over Britain. Fires rampaged unchecked through the outer suburbs of the once great cities. In the surrounding countryside roads were clogged with refugees seeking help away from the devastation.

But in some areas calm remained. Up and down the country, small groups of householders had banded together and, in more peaceful days, had installed their own shelters. Some were proof against the blast from the nuclear weapons. Some simply protected against radiation and the radioactive fallout dust. Small groups of people huddled there together, listening to transistor radios broadcasting the war-time instructions recorded by Patrick Allen in the 1960s. And they wondered how they might contact other groups of survivors.

Imagine a world where the telephone no longer existed. Where television and radio stations no longer transmitted. One where food supplies were short. Where doctors no longer arrived on house calls.

Then into this world put small groups of isolated people. Often in family units. Or in larger groups from villages and small towns. They will need to communicate. To get help and advice. Simply to learn that other humans are around. To find out news, not only of political events but also of areas they must not enter.

An essential part of nuclear war survival equipment — an NBC suit and respirator. Although not suitable for extended use (although the military will wear them for as long as a week under combat conditions), these are needed when leaving shelters to remove rubbish, reconnoitre, scavenge for food etc. The important principle is that no part

This is the situation that could exist in Britain after a nuclear war. And it's one in which CB enthusiasts could play a vital role.

Nuclear war in 1981 is a reality of political life. Almost daily the unhappy chance of it happening draws closer. Israel blitzes an Iraqi bomb factory — and then tells the world that 130 feet underground, on the same site, there was a capability for making nuclear weapons. The Americans suspect that the South Africans have tested two nuclear weapons. The Soviet Union, bristling to the teeth with nuclear and conventional weaponry, forces the

of the skin is exposed and that the air is filtered. Costs vary — good ones are about £150.00 but beware of ex-military NBC suits offered at very low prices — often the fabric and respirators are 'out of date' (which is why they were sold off in the first place) and therefore useless.

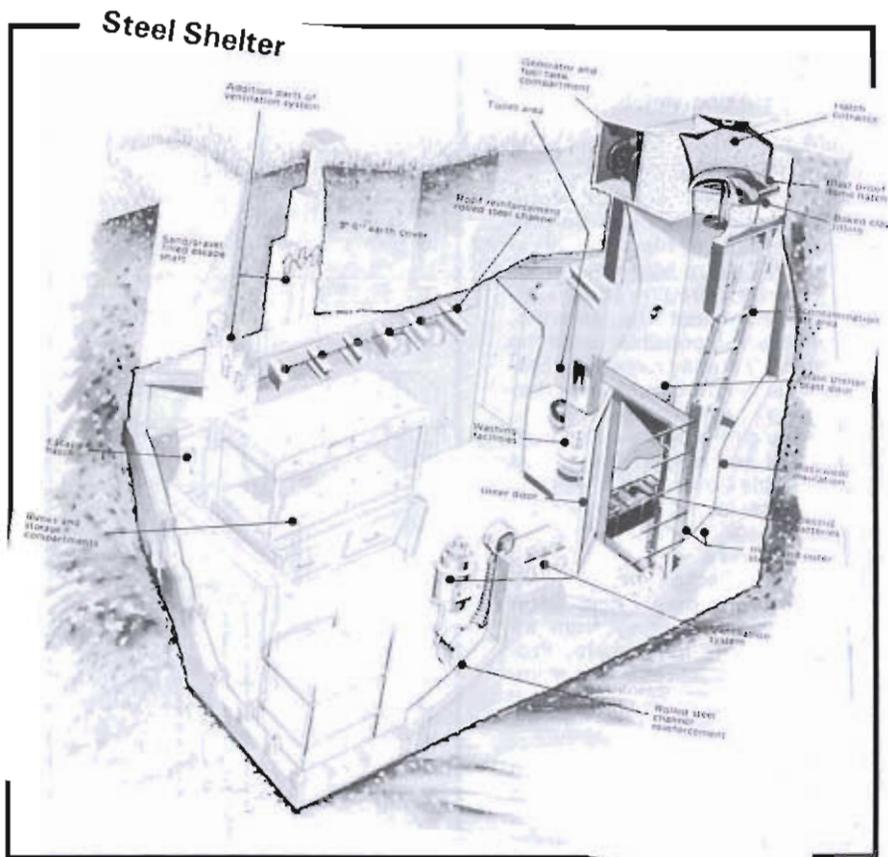
West to re-arm. The United Kingdom, in turn, spends £5 billion on new weapon delivery systems. The new French President is expected to approve plans to build two more nuclear submarines.

All of which means that the unthinkable draws closer. And, as it draws closer, around the United Kingdom, interest in nuclear war survival increases. People discuss the risks and the possibilities. Some take to the streets to protest. Others, perhaps more logically, start taking their own survival precautions. They build underground shelters that will withstand 10 megaton nuclear explosions (such a weapon is 500 times more powerful in terms of blast than those detonated at Hiroshima or Nagasaki) and equip them with air filtration equipment to filter out the highly dangerous radioactive fallout produced by a nuclear explosion. These shelters are then stocked with food, water and all the equipment needed to survive two to four weeks underground. The basic need for an underground shelter is simply stated. It has to be strong enough to have a reasonable chance of surviving a nuclear weapon explosion. Nothing, and no-one, will survive in the immediate vicinity of a ground burst 10 megaton weapon — it will create a crater at least 180 feet deep and one and a half miles wide. Within an area twice the radius of this even people deep underground will not survive — the shock transmitted through the ground would be too much for the human body to take. But outside this area properly constructed underground shelters should withstand the explosion and remain airtight, enabling their occupants to survive. Such a shelter needs to remain airtight to enable the air being breathed by the occupants to be filtered as it is drawn in from the outside — usually best achieved by filtering through a charcoal filter.

Radiation Hazard

A nuclear explosion creates the typical mushroom cloud as the tremendous forces generated by the explosion suck in material from the surrounding area and throw it upward, as the hot gases generated rise very rapidly. The cloud consists of pulverised material (in a city, for example, buildings, street and the soil etc beneath them) ranging in size from fragments the size of snowflakes to microscopic pieces undetectable to the naked eye. These are highly radioactive and must not be breathed in or allowed to remain on the unprotected skin. Equally, however, the radiation generated by fallout 'decays' quite quickly — estimates vary but Government advice is that two weeks after the last explosion such fallout would no longer present a serious health hazard.

The radiation generated by a nuclear explosion is highly dangerous. The only protection from this (and the blast effect) is to be underground, with three feet of earth on top of the shelter. When a nuclear weapon is exploded it also produces two other equally hor-



Basic design of a steel shelter made in Chesterfield by Newbridge Fabrications Ltd. The manufacturers recently ran a trial with a family. The main complaint from the family was that they were unable to make tea (in wartime there'd be no elec-

tricity supply and it is obviously highly dangerous to use other fuels in an enclosed space with limited ventilation) and that they ran out of books to read. Other than that, the family 'enjoyed themselves.'

rific effects — a blinding light flash that will blind people unfortunate enough to be looking in that direction either temporarily or permanently and a heat radiation that will melt metal nearly 12 miles away. In the case of a typical 10 megaton bomb this would cause fatal burns to people in the open standing up as far away as 112 miles. These two effects are, however, rapid both in their event and effect, and a man lying in, for example, a roadside drainage ditch would escape probably unscathed as little as 10 miles away.

Fallout

The greatest loss of life from a nuclear attack or war would come not from the blast, or light flash or heat radiation, devastating and horrific as they would be, but instead from the radiation from the weapons themselves and the fallout generated as a result of the formation of the mushroom cloud. And, in all probability, even remote country areas would be badly affected by this. Effectively, survivors who were not breathing filtered air would eventually and inescapably die from radiation sickness, affecting the blood, bone marrow, skin, gastro-intestinal system, bones, liver, kidney, pancreas, nervous system and even the brain. There is no cure for heavy doses of radiation; and even milder doses may

cause death in months or years after exposure. There is no magic pill or injection, although it is possible to take pre-attack precautions that may help resist radiation sickness.

By filtering air supplies this harmful radioactive dust is removed from the air before breathing it in, and even remaining inside an undamaged house with the windows tightly shut and sealed would help.

CB Lifesaver

But it is aftermath survival that should concern CB fans. Because that's when CB could — and should — come in to its own. In the USA, for example, the REACT networks have provided valuable aid and assistance to local populations in times of disaster. There's little doubt that a similar network will be established in this country. In the hands of sensible, responsible operators such a network would form an essential tool in a post-attack society. This should be enhanced by the fact that any 12 V car battery installed in a shelter would power a CB set installed there.

In virtually all CB user countries, groups of operators have voluntarily organised themselves into emergency teams for flood warning, snow clearance, paramedical and breakdown assistance for their community or area. ▶

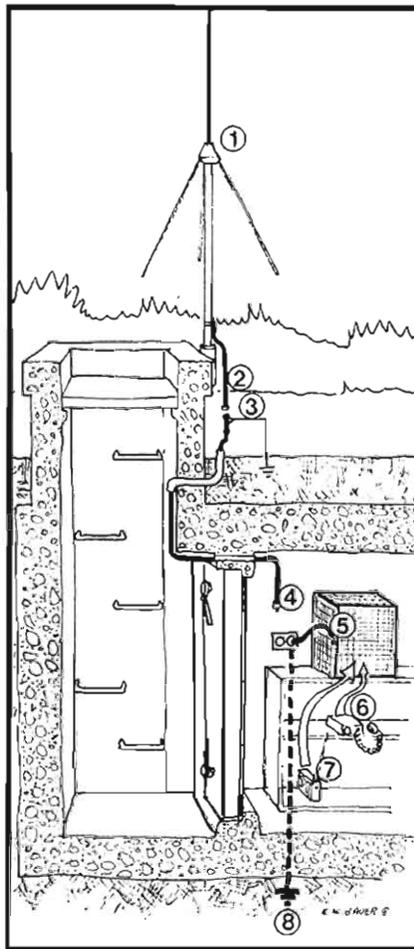
It is clear that CB would have a vital role in civil defence or any emergency situation affecting the population.

Rig Destruction

Especially in nuclear conflict, communications equipment must be protected from effects of blast and vibration or shock. Electro Magnetic Pulse (EMP) will burn out circuitry and it is important to disconnect the antenna, earth your set and if possible, place the equipment in a 'Faraday cage'. Car battery power can be used but fumes during recharging must be considered.

Antennas can only be connected after the blast and it is advisable that the coaxial cable down-lead is earthed inside the shelter during the 'explosive' phase of an attack. The most effective antenna would be a vertical rod with groundplanes. Some unusual atmospheric effects may occur after nuclear explosion resulting from interference with the ionosphere. Properly used, CB equipment will give immeasurable benefits to a survival group, both in the pre- and post-attack phase.

EMP (Electromagnetic Pulse) is a sudden burst of electromagnetic energy released at the source of nuclear explosion with an effect similar to lightning but many thousand times more powerful. Any short unearthed length of wire can act as a collector and direct this energy into sensitive components causing considerable damage. Modern transistorised and solid state circuitry is particularly prone to damage whereas valve sets are highly resistant to EMP. For this reason most military electronics are valve, both to diminish EMP and to assist field maintenance. Protective measures must include antenna disconnection and removal of all demountable components such as microphone leads, power cables, power amplifier coaxial cables and other items that are cable attached. Most communications systems include lightning arrestors in input coaxial cable from the antennas and it is vital that proper earthing is achieved. Electrical earthing must be properly terminated in a ground rod or plate, and continuity tested beforehand. For obvious reasons, antennas should be disconnected and dismantled before attack and stored ready for re-erection. For the highest degree of protection, electronic equipment should be placed in a Faraday Cage which acts as a 'sacrificial earth' and 'electromagnetic screen' for the stored equipment. All shelters should include an electrical earth connection in construction, with input mains earth, EMP earth and other terminals attached for safety. Wrap your equipment in a bundle of foam rubber or old clothing and place inside a biscuit tin, metal bread-box or folds of silver/aluminium baking foil. Attach a copper earth cable from your Faraday Cage to electrical earth which will dissipate EMP in preference to the equipment inside the 'cage'. Keep the length of earth cable to an absolute minimum.



- 1 Remove the antenna from its mast
- 2 Uncouple the antenna downlead too
- 3 'Earth' the shelter coax input lead
- 4 Disconnect equipment from the coax
- 5 Construct a 'Faraday Cage' from fine metal gauze
- 6 Place EMP sensitive equipment inside the cage
- 7 'Earth' the Faraday Cage

After The Bang

Although impossible to determine if all nuclear explosions are over, it is prudent to keep your communications equipment well protected for as long as possible with spare units in storage should further attacks occur and damage operational equipment. The blast wave of a nuclear explosion is extremely powerful. All fragile surface structures such as antenna masts and monitors should be stored and erected after the hazard is past. Not all antennas are blast-resistant and if you do not have a spare, dismantle and store one inside your shelter or in a waterproof package buried in a shallow trench on the surface. Blast-resistant antennas such as DIY wire dipoles strung from trees are effective but don't forget that as well as blast, EMP occurs simultaneously and should equipment be connected at the other end, smoke is sure to rise!

Vibration or seismic effect can damage components. Shaken from a shelf and falling on the floor, or being subjected to serious vibration, does affect delicate equipment. Wrapping in foam rubber or strapping to firm surfaces is advisable. If the seismic effect is strong enough to shake items off shelves or physically affect the oc-

cupants, it is probable that damage has occurred to your survival structure: breaking ventilation pipes, warping doors and possibly shearing coaxial and surface cable connections. A basic circuit tester is an important addition to other shelter repair supplies.

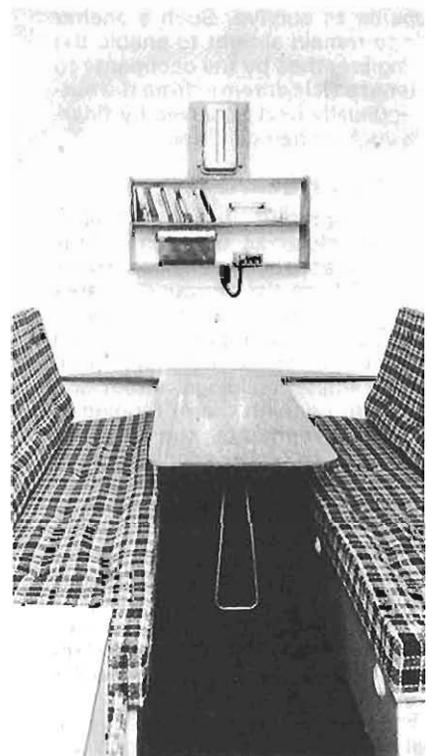
Conclusion

Communications equipment provides your only means of contact with the outside world, and correct protective measures are vital. Radio transmitters or simple receivers are essential. Remember that while underground or inside a building reception may be poor, external antenna systems are important. Whatever system of communication you operate, the degree of protection required must be sufficient to keep the equipment operational in the vital post-attack phase while survivors are at their most vulnerable during confinement.

CB

Alastair Watts is the Publisher of *Protect & Survive Monthly*, Britain's only nuclear war survival magazine. Published monthly, the magazine offers nuclear war survival advice ranging from simple DIY precautions to expensive concrete underground shelters. Available from bigger newsagents (65p) or by mail from 80 Fleet Street, London EC4Y 1EL (85p).

Eran Bauer is the Director of Civil Defence Supplies, of Wellingore, nr Lincoln. CDS offer a whole range of survival equipment and is probably one of the largest stockists of its kind in the UK. Catalogues are available, price £1, from Civil Defence Supply, Freepost, Wellingore, Lincoln LN5 0BR.



The interior of a typical British-made shelter. This one, made by Dateline Marine in Cumbria, is designed for four people and made from glass reinforced plastic (fibreglass) buried inside a concrete jacket. Costs vary according to specifications — this one would be about £5,000 installed.

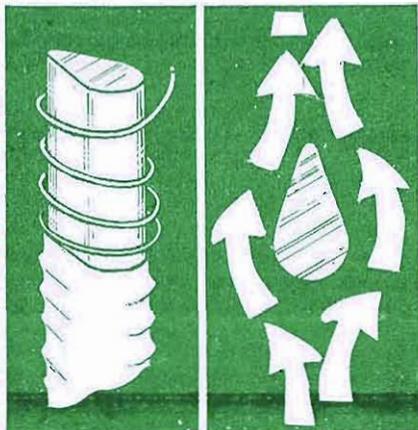
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The New Black Abbots

The New Black Abbots

The New Black Abbots

-A Citizen's Band

Treading boldly into the unknown depths of Yorkshire, Citizens' Band's intrepid reporters met the Black Abbots, one band of citizens who are really into CB!

Doubtless many of you will have copied breakers with handles like *Jinx The Cat*, *Abbots 1,2,3 and 4*, or how about *Hector 5*? What you probably didn't know was that those handles belong to the **New Black Abbots** comedy rock group, a bunch of lunatics who found national fame a few years ago on a show called *Opportunity Knocks*. Until last year the band was fronted by a well-known madman called Russ Abbot. Since last year, when Russ left to pursue a solo career, the band have reformed with three of the original four Abbots — Lennie Reynolds, Clive Bond and Bobby Turner — and have been joined by an incredible gentleman called Clive Lea.

Clive is a bit of a star in his own right having been in showbusiness for some 20 years, known to millions as a member of the '*Rockin Berries*' band which first became popular back in the 60s. Apart from actually being able to sing, Clive has a pair of lips which just have to be seen to be believed. They can literally travel around all over his face and they got a wide exposure a few weeks ago on a TV show called *The Video Entertainers*. That man can control muscles most of us don't even know we have!



Excellent taste in reading material

But back to the band, and in particular CB, which is why we are here. The band's involvement in CB can be traced right back to the Abbot's roadie, another lunatic called Derek Whyborn (Hector 5 to his friends). Now, it appears that a roadie's job entails a lot of driving (maybe that's why they're called roadies, stupid!). One day Derek perchanced to happen upon a gentleman, a purveyor of petroleum we're told, who had for sale this funny radio thing. A few quid later, Derek's job suddenly appeared rather less boring. All those long hours on the motorway spent sitting alone in his Transit with nothing more than a drum kit to talk to became a thing of the past.

That was back in September and it didn't take long for the rest of the band to catch on to this new toy. The Transit became known as 'Mother Ship' and via the good old airwaves the rest of the band could keep in touch. The Chester-based group soon became well known locally for CB and as they moved up and down the country CB became a natural asset to long journeys by road.

The band have had some very interesting experiences with CB and, not surprisingly, Derek has recently been relieved of his rig by some gentlemen in blue.

Derek, it seems, was not too bothered and he vividly recalls seeing some 40 or 50 other rigs down at the police station when he payed an unplanned visit. Actually, it's a wonder they've got away with it for so long! Derek told us about the time he and Lennie were playing with a rig outside a theatre. Apparently their voices were coming over the theatre PA a treat and the comedian on stage at the time was not too amused.



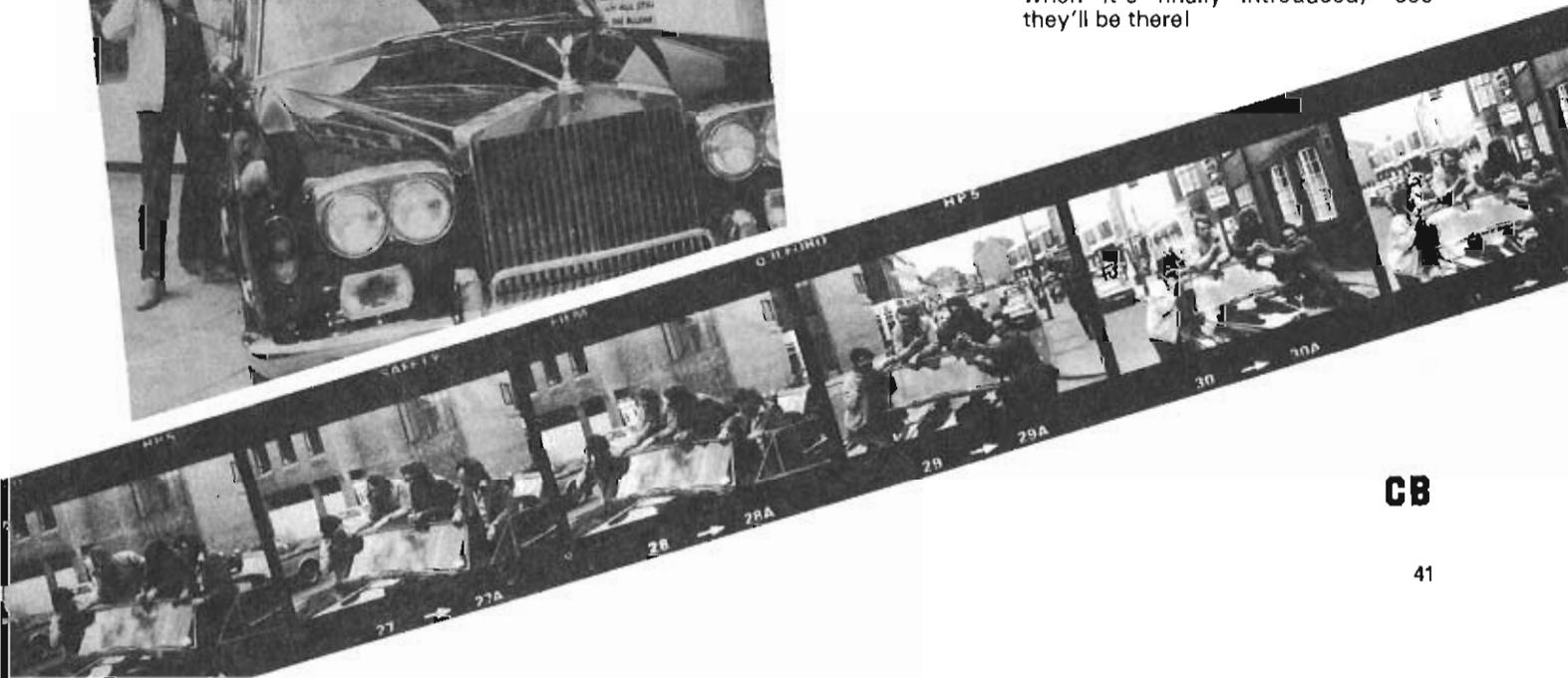
Derek Whyborn: "You don't half get stopped a lot driving a Transit at 2 o'clock in the morning!"



Above and Left:
Lennie's Roller outside
the Royal Opera House.
From left to right
Lennie, Clive Lea, Bobby
Turner and Clive Bond.

At the moment the Abbots are in summer season in Scarborough and later this autumn they are off to Las Vegas. So any breakers in sunny Scarborough might like to keep their ears on for Abbots 1, 2, 3, 4 and Hector 5, and if you get the chance get along to their show.

Oh, and by the way, listen out for the Abbots on the new FM system when it's finally introduced, 'cos they'll be there!



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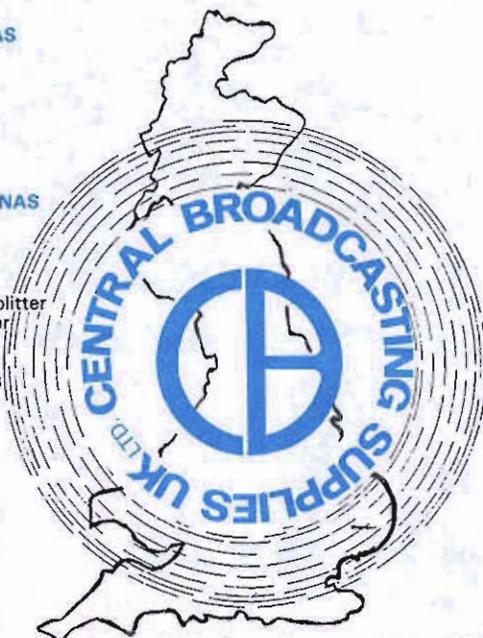
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Mack The Hack admits all. He actually took, and failed, the

Amateur exam. Is he better? Read on.

Of course I'm biased against the radio amateurs' exam, and if you read on you will realise my reasons.

Perhaps I had better explain what goes on when taking the RAE. The exam is in two parts. Part 1, Licensing Conditions and Transmitter Interference, has 35 questions. Part 2, Operating Practices, Procedures and Theory, has 60 questions.

There are no written answers: the questions are on one paper with a choice of four answers lettered A,B,C and D. You pick what you hope is the correct answer, and on a separate sheet you mark a dash alongside either A,B,C or D. Simple, isn't it? Or is it? The answer sheet is later fed into a computer. If you fail one part of the exam you may take that part again without having to take the passed part again.

So, about two years ago I was a happy breaker, ratchet jawing to my good buddies in this and other countries. The wall of my base 20 was slowly being covered in QSL cards, so why should I want to change things? Well, that's what I thought until a good buddy of mine asked me one day if I wanted to take the RAE. "I wouldn't pass that in a hundred years!" I told him. "What do I know about building or servicing radios?" He replied, "You won't need to, the club that we go to for tuition gives 'special help'." Nudge, nudge, wink, wink. Oh yeah, 10 roger that's a four, I might have a dose of that!

So a few days later I was sitting in a classroom being instructed about the whys and wherefores of ham radio and its applications. I had started too late to take the May '79 exam as the closing date for application had passed. About 14 days before the exam the 'special help' was given, and the May exam taken. I applied to take the next exam in December, and once a week I went to school. Going there I found that I was getting involved in the amateur scene and was beginning to learn. About October '79 we, the students, were told that the 'special help' might not be available as changes had been made. So yours truly decided to get his head down into the books in an attempt to pass the exam legitimately. The exam was taken but I did not fancy my chances of success. The results came seven weeks later at the end of January '80, and I was very surprised to learn that I had passed the first part but failed the second.

By now I was well into the ham scene but my CB was not forgotten as around this time I had a narrow escape of a bust. So my gear had to be stashed away and I purchased a 2 metre rig to play with. During this time I realised the advantages of VHF over 27 MHz.

As the May exam approached I was spending all my spare time swotting. So when I took the exam, I felt very confident of success. After 12 weeks of nail-biting, the results came through and I found I had failed Part 2 yet again! Impossible, I thought, I know I got over 40% of the questions right which is supposed to be the pass percentage. I must be super thick or the computer that marks the papers 'burped' when it got to mine. A good buddy who had taken the exam with me had to take both parts and he had concentrated all his effort into passing Part 1. He admits that he

Mack Chat

guessed the answers for Part 2. Guess what? He failed Part 1, and passed Part 2!

I wrote and complained to City and Guilds and they answered with a stereotyped letter basically saying that the student does not have the right to question the computer's results.

I always thought that a hobby is something one has to relax and maintain peace of mind. To me CB is a hobby, but my experiences of the RAE have been frustrating with periods of anxiety, and with indigestion thrown in during the time that I had to rush home from work, gulp down some dinner and then make another wild dash to evening school. Add to this the cost of the exam fees and payment for tuition and necessary textbooks, and it all adds up to a few bob with nothing to show for it.

Of course I'm disappointed that I have not obtained a licence, but I may try again in the future. Yet what is the licence anyway? An £8 piece of paper.

Passing the RAE written exam Parts 1 and 2 entitles one to use the VHF and UHF frequencies.

I have selected at random a couple of the questions which one could encounter during the exams. See how you would answer.

The holder of an Amateur licence A whose call sign is G4XXX, operates his station on the Isle of Man from a trailer caravan, stationary in a farmer's field. He should use the call sign:

A. GD4XXX. B. G4XXX/GD. C. GD4XXX/A. D. GD4XXX/P. (It's a tricky one.)

What is the correct order of efficiencies (ascending) of the classes of radio frequency power amplifiers below?

A. AB2-AB1-B. B. C-B-AB2. C. AB2-B-C. D. B-AB1-C. (Pardon?)

Did you know that on Saturday 6th June there was a drive-in CB demo in London? You didn't? Well, neither did I until two days after the event when a CB pal of mine asked me, "What was that CB demo about on Saturday?" "What CB demo?" I asked. He told me that he was in town and he saw these motors with 'Legalise CB' placards plastered over them cruising around the town. He added, "I thought CB was legal now". So that was the first I heard about this demo. I saw no mention of it in the papers or on the box, nor heard of it on the radio. It was not even mentioned over the channels before or after the event, and what better way of getting a CB event publicised if not over the channels? So whatever the demo was in aid of, it seems that the breakers present just wasted their time as their efforts went unnoticed.

A Cryptic Message

Loose goose, Red lion visit imminent, keep brown bottles cool.

(For those confused by Mack's cryptic message relax, some nutter with a pub has been daft enough to invite him over for a drink. Warning to pub owners -- he drinks like a thirsty fish! -Ed)

CB

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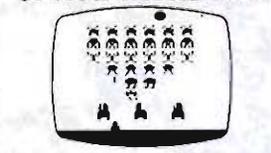
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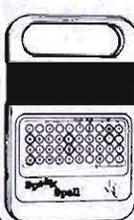
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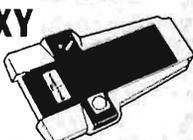


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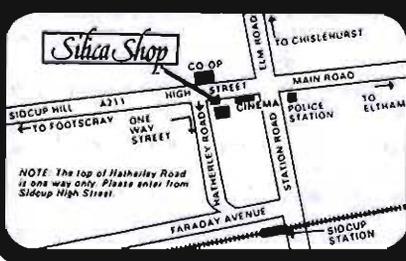


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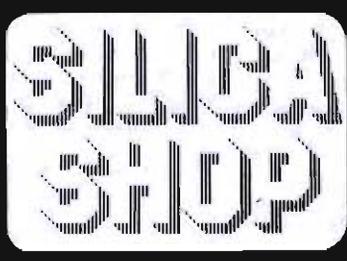
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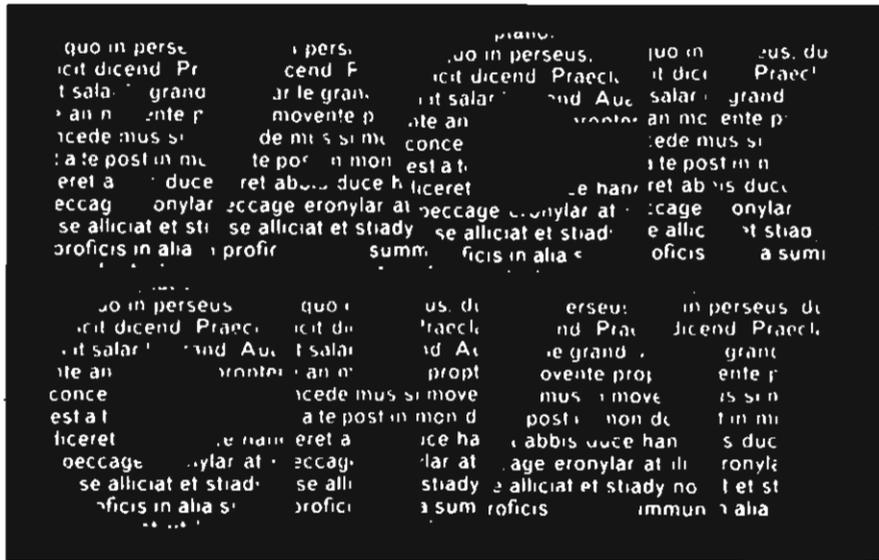
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Time to catch up on some replies to previous letters in Backchat. This month we highlight the problem of rig theft and insensitive CB monitors.

CB Monitors

Dear CB,
I am writing to you in answer to the letter in Backchat (June '81) from Graeme Ross of Carlisle with regard to his Flight Multiband CB Monitor. Having owned one of these marvellous sets for about six weeks I feel that I must write in its defence and also point out a few ways to improve reception.

1) Listening at the wrong time. There are times during the day when there is very little to listen to on CB. After all most 'Good Buddies' have to work. Try the receiver during weekends and evenings — after 10.30 when the 'brown bottle' shops close is about the best time.

2) I agree that the set does not work well inside a car. Try it upstairs at home near a window. If you must use it in a car then fit a proper aerial socket and connect it to the car aerial.

3) Sensitivity can be dramatically increased by placing one hand on the antenna. Also try cupping the other hand near the battery compartment.

4) Get a mains adaptor for 6 V DC. These can be bought from electrical shops for a few pounds. The lead acts as an aerial and really brings in the stations. However, when the TV is on there is some interference. Anyway, it makes a change from TV!

I have been more than pleased with my monitor set. The local breakers come in really strong and it pulls them in from a 10-mile radius at least. I have even heard foreign skip from as far away as the USA.

I hope the above has been of use. Obviously if these suggestions don't help then the actual set may be suspect. I would have thought that there would have been plenty of CB activity in Carlisle on channel 19 — after all, the M6 motorway is quite near.

Trevor Bunce
Middlesbrough.

Dear CB,
I have just finished reading your Backchat page in the June issue and noted with interest the problem

Graeme Ross encountered after purchasing his Everco HH857 portable monitor.

I purchased one of these a few months ago and had the same experience, but having said that, how far do you expect to receive with just a two-foot twig?

My simple solution to the problem is this: take a short length of electrical cable of flex. Attach two crocodile clips to the wire — one to each end. Clip one end to the antenna on the monitor and clip the other end to the TV aerial plug, and your monitor will receive all 40 channels as well as a normal rig.

T W Sibley
Welwyn Garden City.

Dear CB,
I read Graeme Ross's letter with interest. I too own an HH857. I agree with him that the performance is poor but it can be vastly improved by fitting a clip-on 27 MHz 'Rubber Duck' antenna. The aerial is easily fitted by pulling the telescopic sections up about 2" and clamping on the Rubber Duck. As these aerials are tuned to 27 MHz the difference is incredible. The Rubber Duck is, however, unsuitable for the VHF bands.

The receiver looks more professional with this type of antenna fitted. Rubber Ducks can be readily purchased from most CB accessory shops.

Nigel Botham
Cramlington.

Dear CB,
The reason why I am writing to you concerns the letter from Mr Ross (Backchat, June).

I have exactly the same monitor and it works very well. It is possible though to improve the performance and I wonder if anyone else would be interested.

Referring back to the March issue of *Citizens' Band* I made the *Loft Antenna* project (good plug for back issues).

By sheer coincidence I happened to have an FM dipole in my loft. So ▶

whipping the coax from my FM antenna I connected it up to my home-made aerial. The other end of the cable is fitted with a TV type coax plug. Not wishing to chop this off as I still wanted to listen to FM on my hi-fi, which by the way does not suffer from CB interference, it's British as well! — however, I digress. Back to the problem.

A simple adaptor was the solution. So delving into my spares box — or rubbish tip, as the wife calls it — I found a socket for my plug. To this was added two lengths of wire, each about a foot long, with crocodile clips on each end.

Connection to the monitor is a simple matter of clipping the centre wire to the telescopic aerial and the outer earth braid to either of the external socket mounting nuts. I have also found that using a mains power adaptor improves the range.

I have heard breakers from about four miles away using this set-up which I don't think is too bad.

By the way, when I plugged your Loft Antenna into my FM tuner I got better reception than I did with my shop-bought umpteen element dipole.

Hope the legal system proves OK as it's a bit naughty using AM when you work for BT and the blacked-out Bedford van parks opposite you. Nuff said, keep up the good work.

K M B
Cleethorpes.

Dear CB,
I too have the Everco HH857 type monitor under the name Flight and at first only heard a few short bursts of CB on my set.

My solution was to make an antenna from 100 yards of electric wire. I put one end onto the telescopic aerial and ran the wire around my room — this really pulls the CBers in.

Please could you tell me if there will be a FM monitor working on 27 MHz?
W J J Durall
Plymouth.

Dear CB,
After reading your Backchat page in the June issue of Citizens' Band, I was amazed to see a complaint about the Everco HH857.

After seeing your Monitor Survey feature in the May issue I also decided to buy the Everco. Since I have had it I have heard about 30 transmissions every night, most lasting for around three minutes. The only minor complaint I have is that my particular monitor only covers 30 channels instead of the usual 40. This is most unusual as the scale does go up to channel 40.

Anyhow, I think it was an excellent buy for my money — £18.50.
Richard Howell
Haverfordwest.

These were just some of the letters we received concerning the problems of Graeme Ross and his CB monitor. As

you can see the solutions are quite numerous, but the general consensus is that the telescopic antenna is limited. And in answer to W J J Durall — yes, there will be an FM monitor on the market very soon and we will be reviewing it in a future issue.

Rig Theft

Dear CB,
With reference to E J Johns' letter in Backchat re criminals and CB, I have liaised with a local club in the Torbay area to try and combat the theft of rigs. I have asked that all the rigs be registered with the club, ie, make, model and serial number, also any ID marks that the owner may wish to put on the set.

Being a policeman I am usually informed of a set being stolen before the owner has a chance to report it as he is bound to see another breaker who will broadcast it locally over the breaking channel.

I feel that if all clubs did this when a set is stolen, magazines like yours could publish the details of the missing rigs.

Let me say to all breakers that if you have a rig stolen *report it to the police*. Even though your rig may be illegal someone will make a profit out of it and that is theft.

Depending on the attitude of the police force towards CB depends on whether you get your rig back or not. But you will find that the majority of forces will assist you all they can. If the police have the all-important serial number of your rig then it can be collated at Scotland Yard, otherwise it's pure luck if it's traced.

Breakers who buy rigs on the cheap also condone the theft because they must realise that the set has been stolen and the police will be able to seize the set back if it is traced.

Moonraker
Torbay.

Dear CB,
I am a regular reader of *Citizens' Band* and believe it's one of the best for up-to-date information.

I write to you after reading the letter from E J Johns. I have had the same problem, ie my rig has been stolen.

My rig was taken from my car in a crowded car park in Swansea in April this year whilst I was watching a football match. Swansea is becoming notorious for stolen rigs: the Swansea 10.4 Club claim that at least 50 rigs have been stolen and that details have been sent to the police.

My rig was a *Colonel FR360* (serial no 051104) and is quite large and very distinctive. Well, I don't suppose I'll ever see my rig again but I live in hope.
R C Franks
Bridgend.

These are just two of the many letters we received concerning the very widespread problem of rig theft. Readers may be interested to see the

letter printed last month in Club News from an organisation called CART (Catch A Rig Thief) and possibly consider some of the rig insurance schemes, some of which appear in this magazine.

FM v AM

Dear CB,
As a potential FM breaker I would like to congratulate the AM breakers who are determined to 'carry on regardless'. They will be providing an invaluable service to FM breakers, namely:

a) They will keep and attract more of the foul-mouthed, aggrieved 'yobs' who infect the airwaves at the moment.

b) They can be blamed for all the radio interference to TVs, baby alarms etc, regardless of who actually caused it.

c) They have shown everyone who has ever listened to AM exactly how not to use Citizens' Band radio. From their mistakes we should all be able to start with a 'clean sheet of paper' and avoid the obvious mess that abounds at the moment, eg channel 19 for the truckers and channel 14 as the breaking channel should be accepted as the norm.

d) They will act as a filter for the undesirables (who are attracted to CB by its very illegality and probably imagine themselves to be the British version of the *Dukes of Hazzard*) allowing the 'cream' to move over to FM.

e) They will keep the price of AM rigs at a sufficiently high level to allow the genuine breakers to unload their AM rigs onto the 'mugs' that are left and use the proceeds to buy nice new guaranteed, repairable, legal, FM rigs.

f) The public will move their sympathy and interest to legal FM breakers and condemn the AM breakers as being deliberately anti-social. The AM breakers did after all campaign for Citizens' Band radio on 27 MHz (look at the photographs of rallies and demos over the past couple of years — the placards all read "**Legalise CB on 27 MHz**", nobody mentioned AM!). As far as the general public is concerned you have got what you wanted. To them, the fact that you wanted AM and not FM is the same difference as complaining that you wanted all the rigs painted yellow and the Government have insisted that all the rigs will be painted green!

So please, AM breakers, carry on regardless, you are all doing a great job and I look forward to copying the sensible ex-AM breakers on the FM airways come autumn.

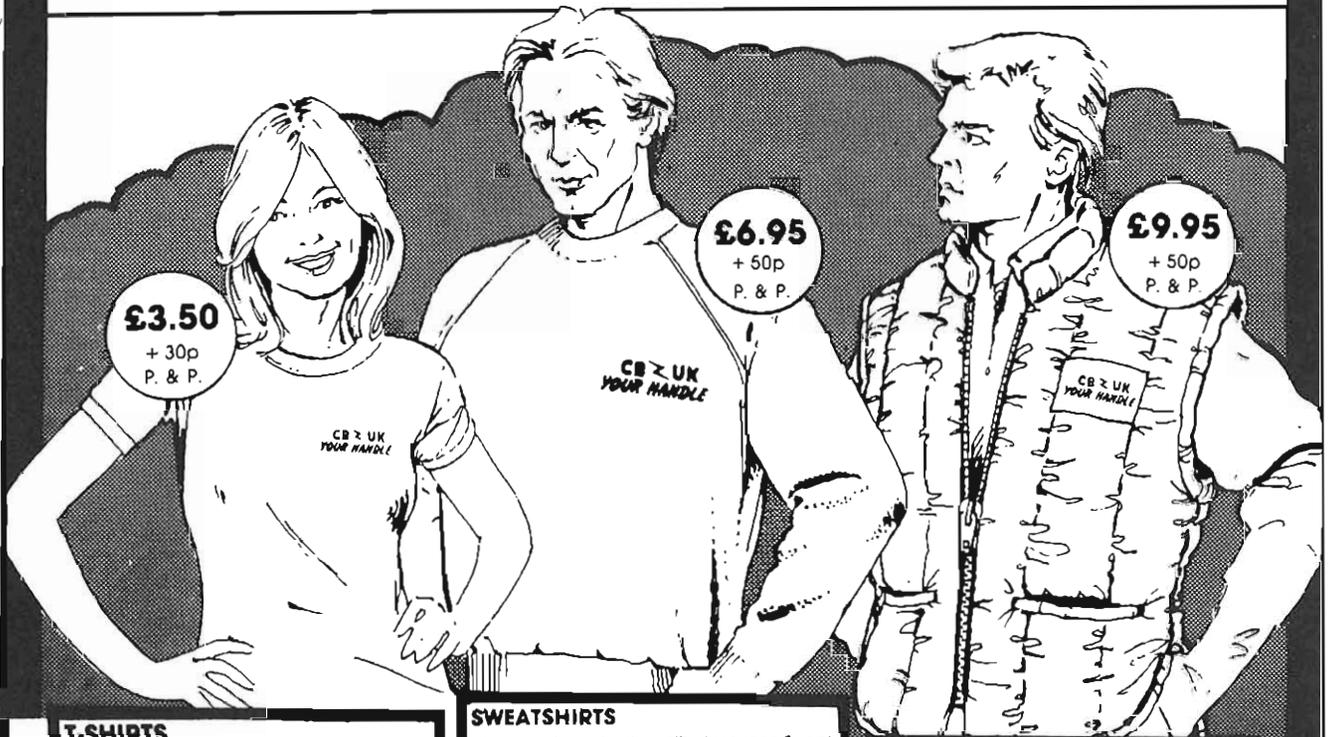
Grim Realist
Narborough.

That should stir a few of you to put pen to paper. How about it? Send your comments etc to Backchat, Citizens' Band, 145 Charing Cross Road, London WC2H 0EE.

CB

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CLUB NEWS

Camping and CB seem like a pretty good combination: this month we hear from a club dedicated to just that.



This month's nomination for the most unusual CB Club goes to the CB Backpackers. Here's a report.

CB Backpackers

Dear CB,
I am writing to your magazine to see whether you would be interested in featuring a new club that I am starting, along with my seatcover Judie. We operate as Freebird (me) and Dreamweaver.

Anyway, what we intend to do is start a club for breakers called the CB Backpackers with the idea of using hand-held walkie talkies to call up other breakers with a view to hitching lifts and hitch-hiking around the country, putting CB to really good use.

We feel that this idea could really catch on, especially when CB is legalised and cheap handsets are readily available.

Even though CB is illegal there are enough breakers on the air at the moment to make the idea workable right now. Dreamweaver and myself intend giving the idea a trial run and very soon we will be setting off for Exeter, taking tents etc and we'll see how far we get.

We would be interested to hear from any other people who enjoy camping and hitch-hiking, especially those who feel that CB could help them with their hobby. Anybody wishing to join would be issued with a free membership card, badge and a list of ideas. Also, any breakers running boarding houses etc would also benefit, and if they would like to get in touch with us

we can include them on our lists.

We would eventually like to see the CB Backpackers recognised as a national service, helping with all aspects of outdoor activities.

We would like to stress that this is not intended as a cheap or free taxi service for selfish breakers and we feel that a membership card should be produced when travelling. Anyone interested in this idea, including clubs which would like to act as area organisers, should write to:

**CB Backpackers,
Kevin Jones,
95b Marina,
St Leonards-on-Sea,
East Sussex TN38 0BL.**

PS. Please include an SAE for further details and free badge.

That sounds like an excellent idea for campers, hikers etc — anyone else got an unusual application for CB?

You may remember we featured CRIS (Citizens Radio Information Service) a few months ago. Here's some more news from Louise Briscoe, one of the founders.

CRIS

Dear CB,
Please find enclosed a photograph of CRIS handing over a cheque for £125 to Professor Scopes who is in charge of the Special Care Baby Unit at St Thomas Hospital, London. We would like to thank everyone who helped raise the money at the CB radio show at Kenilworth last month.



CRIS (Louise Briscoe) handing over a cheque for £125.

CRIS has been snowed under with requests for membership which, incidentally, we did not offer. We started out as a simple information service, but as such a vast number of people want to join us we now have membership cards and will send them to anyone wishing to join. Membership costs £1 and you will be able to use the service as often as you like for your membership fee, but please remember to enclose an SAE whenever you write. All surplus funds will be donated to charity.

Louise Briscoe
55b Brook Drive,
London SE11.
(01-582 9479 9am to 11pm).

Time now for a quick report from the Mansfield Executive Breakers.

Mansfield Executives

Dear CB,
Please could we register our club in your Directory? (Consider it done—Ed)

We meet at the **Brown Cow Pub**, Bridge St, Mansfield on Wednesdays at 8.45pm. We have around 140 members at the moment. The membership fee is £3 per year plus 20 pence on the door. We cater for serious CB enthusiasts and try to help each other out with CB-related problems and we are lucky to have members who have technical knowledge and are able to help out with equipment problems. Some of our technical members have also given us talks on the theory of radio equipment; it may sound a little dry but it's not, the only thing dry on some nights is the wit!

The club started last October and since then we have organised fund-raising for a local children's home and the mentally handicapped. On the lighter side we hold fancy dress dances, car rallies and fox hunts, sometimes in competition with other CB clubs in the area.

Forthcoming attractions include a Folk/Disco Night, Sponsored Walk, Protest March for 27 MHz and a CB-orientated Film Show. For more information, please contact:

'Raven'
62 Bagshaw Street,
Pleasley, Mansfield,
Notts.

Like the badges lads, talking of which

Meon Valley Breakers Club

Dear CB,
The Meon Valley Breakers Club was formed on 18th September last year and is the original breakers' club in the Fareham and Gosport areas. The name of the club comes from the river Meon which runs through Fareham.

At present the club has over 280 members and is increasing with every meeting. The meetings are held on the second and fourth Monday of each month at the **Rowner Recreation Centre** in Howe Road, Rowner in Gosport. The first and third Mondays of each month are set aside for fox hunts which we hold in local countryside areas.

The members of the club range from the usual 'three whats' breakers to highly respected members of the local CB community, known locally as the 'Michaels'. The original six Michaels were a group of breakers who spoke in high-pitched voices on channel 19, just talking to each other. Local breakers started 'Michael hunts' and imitated the original Michaels: there were over 30 at one time! Nowadays the six Michaels have packed in 'Michaeling' and left the imitation Michaels to carry on.

To join the Meon Valley Breakers costs just £3 (£1 renewal each year). Anyone interested should write to the address below:

Meon Valley Breakers,
4 Lawrence Road,
Fareham,
Hants.

How peculiar, wonder if they're taking the Mickey? Now for our last report this month, all the way from Inverness.

Highland Breakers CB Club

Dear CB,
On Saturday, 25th April 1981, at 2.30 pm, the Highland Breakers CB Club staged the Highlands first big 'I' ball, mass rally/march/meeting, in Inverness, advocating legal CB on 27 MHz AM to the standard we have now illegally, or to give us an amnesty on 27 MHz AM.

About 2,000 breakers attended, arriving in convoys, buses, or singly from all over Scotland. We, the HBC, had the full support of the police, local authority etc, in holding this rally and in fact they helped us considerably in setting it up, ie march route, advising on marshalling and stewarding and how to have the march: all this without suppressing our aims and feelings.

Even though I am part of the HBC I still have to say that it was the best organised 'eyeball' I have been to yet, and so say a lot of other breakers who attended. We have had absolutely no complaints at all about our eyeball.

All the breakers gathered at the railway station car park with their ban-

ners and placards where the march started at about 2.40 pm. The march then proceeded through the main high street and shopping centre of Inverness on to the Bught Park, where we held a mass meeting, with various club officials speaking. A point worth mentioning here is the fact that ever since we first thought of this rally we had the full support of Andy Donovan of the IUBA, who said that he was only too willing to come up to Inverness to address our meeting, and it was not until we were all gathered in the Bught Park that we knew he was not going to turn up. As yet we still have had no word from him as to his reason for not being there. So, after having promised us to come up until the last minute, we would just like to ask him through your magazine — what happened? We had even offered to pay half his expenses and to put his good lady and himself up in the home of one of our committee members.

Anyway, after the meeting, we dispersed and headed for the Hayloft, our local brown bottle shop, where the club had laid on an evening's entertainment. The premises were packed to capacity all night, and an excellent time was had by all who attended. We raffled prizes that were donated to us, which included a holiday for four on Loch Ness, in a Great Glen cruiser (this holiday was worth £400). There were also tickets to Eden Court to the Country and Western Festival, a chicken box, and various other prizes.

There was also a prize for the furthest breaker and one for the best-dressed car: these were both for £20 cash.

If anyone would like any more information, please contact:

T M Blues,
4 Corbett Gardens,
Ardersier,
Inverness IV1 2RY.

Time's up again — nice lot of badges this month but there are still a couple of cracks on the CB office wall that need covering up, so keep 'em coming. See you next month.

CB



Highland Breakers big 'I' Ball.

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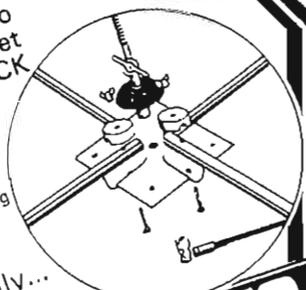
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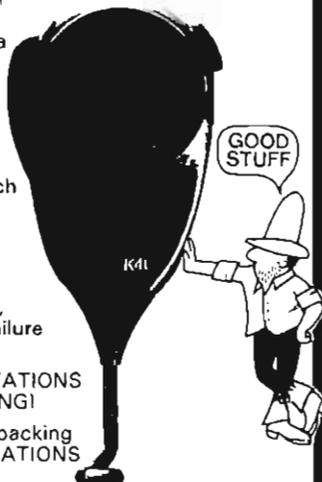
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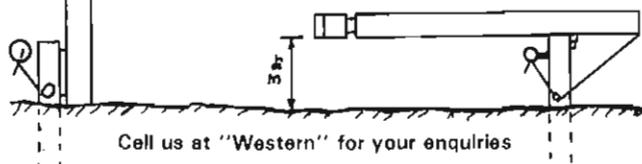


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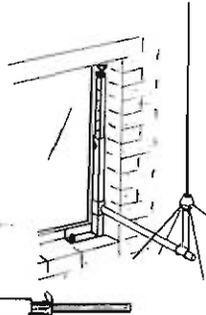
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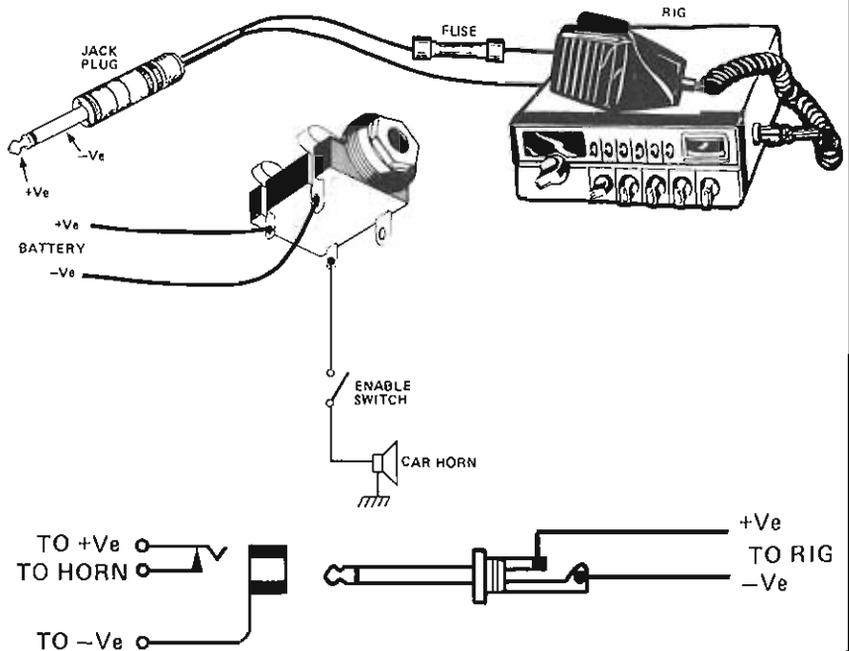
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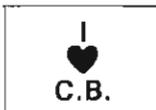
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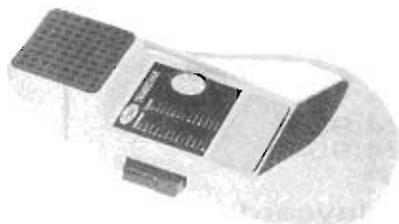
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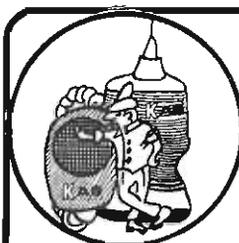
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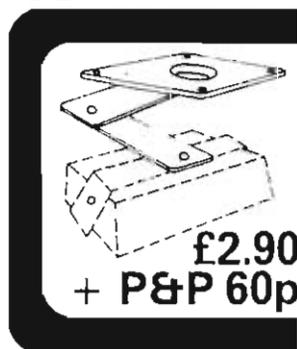
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