

FEBRUARY 1982 80p

# BREAKER

THE CITIZENS BAND  
RADIO MAGAZINE

**CB CALLING CARDS  
-HOW TO QSL**

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ADVICE**

**AMSTRAD  
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## BREAKER


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 A LINK HOUSE PUBLICATION

The publishers of BREAKER would like to make it clear that FM CB radio is legal in this country, whether it be to manufacture, own, install or use such equipment, and it is our intention to encourage and approve of such practices. 'Bout bloody time they gave us something...



Had a great response from my credit panel last month, so thanks to all the well-wishers who sent cards, flowers and congratulatory telegrams. Another winner coming up: Cover by David 'When do I get paid' Leigh, centrespread by Norman 'Habitat' Hodson. And a classic takes its place in journalistic history...

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B

# Ratchet jaw

Heard the one about confiscated AM rigs being returned with a seal and a little label saying 'Not to be used before April 1982'? Rumours have always been rife in CB and, of course, they spread very quickly across the airwaves — but this particular gem wins the Breaker New Year Award for the Biggest Wind-up of 1981.

We've had letters and phone calls from readers literally all over the country asking us if we've heard the same and whether it's true. The odd thing is — and this is the clue to its factuality (or not) — everyone who told us about the returned rigs and the 1982 label has 'heard it's happened to a mate'. Every time we've had a phone call on the subject, we've asked the caller to try and trace the person who actually had their set returned. Perhaps even get a photograph. They all said they would. No one has come back with the mearest shread of proof.

It is a very elaborate rumour but is based on nothing except the wish of many people that AM should be legalised. A great many illegal breakers want to believe it will eventually become legal, so they pass it on. And what starts off as 'I've heard that . . . ends up as 'AM will be legalised on . . . Unfortunately, it's just not true.

Not surprisingly, this has caused some alarm in the CB industry — bit tricky selling FM gear if everyone is waiting for some mythical day when AM is being introduced, right?

So Dickie Mould of Amstrad wrote to Bill Innes at the Home Office asking for his comments. In his reply, Uncle Bill said:

'I can confirm that there are absolutely no plans to legalise CB radio on AM. I am aware of the sort of rumour which you have mentioned, and we are doing everything in our power, both in correspondence and in statements to the media, to make it clear that they have absolutely no foundation.'

Can't get much more definite than that. We check out every rumour that drops into our shell-likes and we were told exactly the same by both the Home Office and Customs and Excise. We also contacted the Metropolitan police, because one source told us they were responsible for one returned set. Their reply was the same — no way. Or lots of long words to that effect.

Pity we can't include sound effects in Breaker because the phone rang just as I was reaching the end of that paragraph. It was Vic Bull from REACT UK asking about . . . you guessed it. He has seen a set with an orange seal running over the mike socket bearing the legend 'Seal not to be broken before April 1'. April 1 . . . ring a bell? Good day for wind-ups, huh?

Anyway, we really can't do any more. We have spoken to all

the relevant authorities and they have all denied it outright — and they're hardly likely to issue denials on the one hand and give back 'sealed sets' with the other, are they?

The trouble is, going on their past record, no-one has that much faith in the Home Office and a great deal of what they say is taken with a shovel full of salt by most of our readers anyway, so whatever we say you're not going to believe us, are you? All we can do is pass on what they tell us and, for what it's worth, add that we don't believe a word of this April 1 nonsense.

Much as we would love to see AM legalised, we can't see it happening. But if you do come across one of 'those' sets, send us as much information as possible and we'll check it out for you. And if you hear it from a mate's mate, ask for proof.

Meanwhile, the arguments for and against CB continue to rage — and don't the hacks on the national chip wrappers just love it? The most controversial area is interference (still) and it seems that a fair percentage of British citizens would love to see every service in the country grind to a halt — and then pin the blame firmly on CB, just so they can say 'Told you so'.

Significantly, all this recent uproar has been caused by good ol' inoffensive FM, friend of the people and HMG's gift to the people. Fire chiefs claim it interferes with their station to vehicle links and now even our trusty boys in blue are suffering.

According to a local newspaper, the Devon and Cornwall police say they have 'experienced more interference on police radio networks throughout the force area' since the legalisation of FM. Strange really. Wasn't AM supposed to be the troublesome one? Wasn't FM supposed to be a good clean signal, which wouldn't cause these sort of problems?

Jack Harsant, chairman of the South Western Federation of CB Clubs, said they'd had more problems in the first week of legal FM than in two or three years of illegal AM. But then he goes on to say that none of this would have happened if the Government had legalised AM, so he might be a little biased. He also claims that the Road Runners, one of the local clubs, have been asked by the police to try and cut down on interference. The breakers have reluctantly agreed — but it could mean that 15 channels will be out of bounds. But surely two watts ERP can't cause that many problems — or are some people upping their output? The limited range of FM is making legal breakers, all over the country, look for ways of increasing their power. So the legal system is being used illegally — and it gets curiouser and curiouser.

When the Sunday Telegraph magazine looked at CB recently,

they called on the services of Sir Bernard Lovell, who recently retired as director of Jodrell Bank radio-telescope and should know a thing or two.

We wouldn't accuse such a mighty figure of scaremongery but his 'Opinion' piece does seem to ask more questions than it answers. He points out that anyone who stands close to a radio transmitter is 'bathed in a radiation field' and goes on to say that injury 'particularly to the eyes, caused by the heating effects of radiation, appears to be the most likely danger if the level rises too high.'

He does point out that you and I are protected from these evils by the Home Office specifications — i.e. the restriction to two watts ERP. But, as he so rightly says, 'that is not the whole story'. He says that it is possible to buy 'boosters' which can increase the transmitted power 'by 50 times'. Now, before you all say 'ah, but there are 2,000 watt burners on sale which would increase the transmitted power by 1,000 times', let me tell you what Sir Bernard has to say about 100 watt burners:

'A CB radio operated at this illegal power level could dose a person, at a distance of a yard from the aerial, with radiation near the Home Office safety limit.'

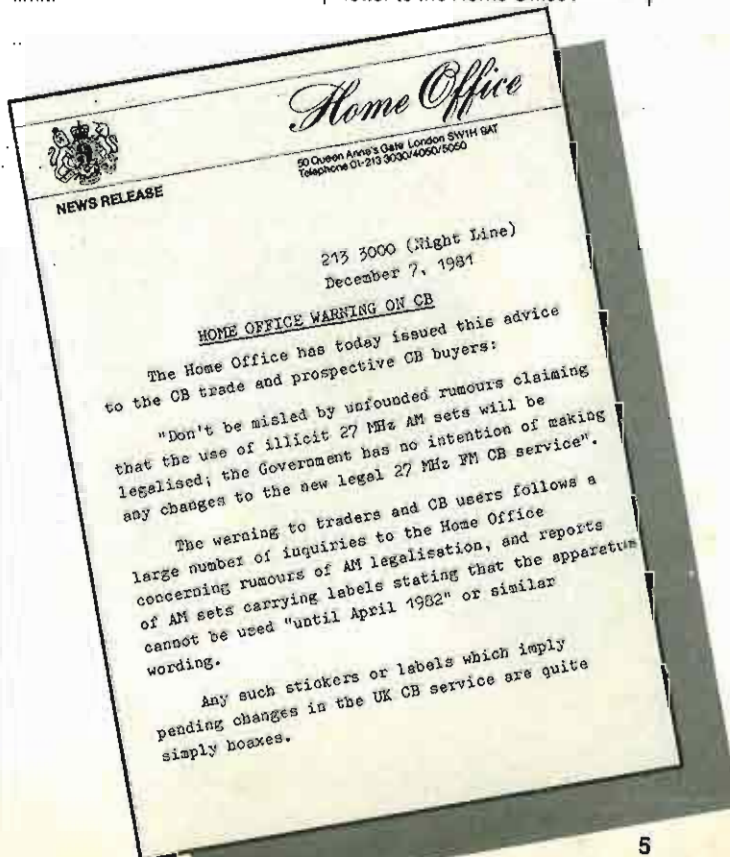
Sir Bernard acknowledges that there is some disagreement as to where the safety limit should be set. The 1976 Soviet Safety Standard, for example, says that protective goggles should be used for exposures 100 times less than the British limit.

'I do not know whether the Soviet or Western limit is more correct, but the evidence produced during the last decade demands a cautious attitude,' says Sir Bernard. That's the trouble with experts — they never agree.

He suggests the Home Office should release a statement about the safety of the 'available CB devices' but in the meantime, he says, the existing Home Office regulations should be enforced by introducing legislation against the sale and fitting of burners. And anyone using them should be 'caught by monitoring devices in the same way as those who exceed the speed limits'.

We've said before (yawn, yawn) that we do not agree with the use of burners but speaking to breakers on FM it seems that most of those turning to extra power are doing so because they believe the antenna specifications to be too restrictive. A small burner, they say, will bring the performance of the new FM service up to that of the illegal AM. And if they're buying a small burner . . . well, it won't do any harm to get something a bit bigger will it? Just in case.

But what if the big powerful burners can do damage? What is the alternative? One answer would be to review the antenna specifications — which are impossible to police, in any case — and bring the performance of FM rigs up to that of their illegitimate AM sisters. We'll be looking at this in more detail in future issues, but in the meantime, might we suggest a letter to the Home Office?



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# Give us a break

## The rules

So. You want to make a point? You want to write a letter? Easy, just scribble on a bit of paper and send it to the address at the front of the magazine.

But remember that we won't publish letters unless you put your name and address on them. We won't print your address if you don't want us to, but we do need it in the first instance. Otherwise, it's the bin. Very sorry indeed, but there it is. Or, in some cases, isn't.

## For sale

Dear Breaker, Have you given any thought to a readers' advertisement page? This would help many breakers who can't afford brand new equipment and also breakers who want more advanced equipment than they already have.

Siezer  
Worsthorne  
Lancs

(Funny you should say that — check out the coupon for FREE readers ads towards the back of the mag.)

## Old slang sign

Dear Breaker, I am writing to tell you what I think of RJW's letter from issue 11 — utter rubbish!

If I copy him, and I ask his 20, and he says '20 what', I won't explain! I'll tell him that if he wants to talk in plain speech he can go and get a damn ham radio licence and talk plain on that — I will also tell him to leave CB to us breakers!

I am surprised you printed such a rotten letter in your fantastic CB mag.

Buck Rabbit  
Wolverhampton

(You have a perfect right to use jargon if you want to of course. But surely other breakers have a right to use plain English, if they want. If someone doesn't like the slang, they shouldn't be prevented from getting the same benefits from CB as you do...)

## Bootwalk

Dear Breaker, I've paid for my licence and got my legal rig, and I'm obeying all the rules about antennas. One problem — all my channels seem to be full of hi band sideband DX'ers, some of whom seem determined to use as much power as possible. How can the legal system work properly under such circumstances? And what are we going to do about it?

It's not the Governments fault — officially 27.6 to 27.9 MHz is clear for use. What happens when a legal user finds himself in an emergency and can't make himself heard through the DXers?

Let's have some ideas on this — I don't really want to get nasty and bust them.

AJ Howard  
Dunkinfield  
Cheshire

(Without getting heavy, all we can really do is ask nicely and leave it to the offending breakers conscience. Unfortunately, that's not working too well, is it?)

## Postive argument

Dear Breaker, I must praise you for an excellent article in the October issue of Breaker, on the use of CB for the disabled.

As you state, a disabled person, even one who is confined to bed, could meet and get to know more people through CB than probably by any other means. I have been aware of the advantages to the disabled of CB for some time but amidst all the debate regarding the legalising of CB no-one (except yourselves), has mentioned the disabled as being one of the positive sides to the argument.

I myself had a motorcycle accident six years ago in which I injured my spine and have been in a wheelchair since. I am fortunate in that I can afford a car which has been fitted with hand controls and it is much more pleasurable to drive than my old invalid carriage. I do not as yet have a rig as I am still looking to see what would suit me best because I have a weak grip in my hands.

Keep up the good work as your mag certainly has its finger on the pulse!

Kenneth Cairns  
Erskine  
Scotland

(If any disabled breakers can recommend specific equipment, drop us a line.)

## Lots of Loveridge

Dear Sir, Re 'Give us a break' letter captioned 'Then again' in September's issue (number 9).

1. There was no permission, express or implied, that my letter was for publication.
2. You did not seek or obtain such permission.
3. You edited my letter.
4. Your comment makes me look silly, when the full letter would have made sense.
5. My letter was sent at a time when legal CB was much more in doubt, again making me look silly.

I require an immediate apology, and either you publish the letter in full, excluding address and telephone number, including the date of course, or you publish a retraction of your comment and apology and explanation.

John Loveridge  
London

(Mmm. Any relation to Angry of Mayfair? We don't actually need permission to publish letters that we receive, of course, although

we don't print them if the writer expressly asks us not to. Mr Loveridge did not. And his letter was addressed 'to the editor'. We will now re-run it, word for word. Although the original letters were in CAPITALS. The passages in bold type are those we edited (making him 'look silly') and the reply is as we originally ran it. It was received by us on June 29).

## Then again

Dear Breaker, You have a magazine with great spirit which I enjoy reading. But I hope you will shortly either be out of business or restricted to a small and diminishing clientele. Because I believe in CB.

It is precisely your type of magazine which is determined to snatch defeat from the jaws of victory, giving all those opponents of CB ready made material with which to counter the many positive aspects of CB.

I shall look for a CB magazine just as informative as Breaker whose editor and staff truly have the long term interests of CB in their hearts not their wallets. I expect to find advertisers geared to a protected market of 6 million users who will be in business long after the bandwagon has crushed the fellow travellers.

**I wish any person who considers the title of Geordie Clayhead's letter (issue no 4 — Give us a break) as being apt to ponder in front of a mirror.**

Yours sincerely,  
John Loveridge  
London

(Just what material we are giving to the opponents of CB I'm not sure. I think you're talking about our coverage of AM — the reason there is more AM in the mag is that FM is still very young so AM is still in the majority but once it's legal...)

## Answers please

Dear Breaker, Having long been a devotee of Ham International (to my mind their AM sets were the best), I decided on a Mariner when legalisation came. I wrote to Ham in August, asking for any information they could give on their legal rigs. I enclosed a stamped, addressed envelope and sat back waiting for a reply.

Two months passed and nothing came, so I wrote again. I have still not had even the courtesy of an acknowledgement, much less the decency of a reply. In these days of hardship, no-one can afford to send out SAEs willy-nilly.

Now, as far as I am concerned, Ham International can keep their equipment. I have ordered a Fidelity CB 1000, and anyone asking for my opinion of Ham International will be told!

Incidentally, I have written to many companies with enquiries and have received replies, generally within a week, some even by return of post.

Caveman  
Hull

(Er, well... some of these companies are very busy, you know... erm...)

## More on morons

Dear Breaker, I ride seatcover to my husband (The Joker) and we now own a legal FM rig.

Since the day it became legal, we keep getting AM breakers on channel 14 playing music, giving out stupid news reports, telling everyone on FM what a load of idiots we are and, of course, blocking our breaking channel.

We have spoken to plenty of AM breakers who are really nice and say that we should all get on together. Surely now, that FM is legal we should all work together. But if you get a few morons on the air blocking the breaking channel and running us all down it will be spoiling it for the majority of AM breakers who are nice people and will not help them to get AM legalised. By the way, I think FM is great.

Fallen Angel  
London E12

(Best thing is to ignore them. Difficult we know, but they'll soon get fed up talking to themselves. They are very boring after all.)

## How long's yours?

Dear Breaker, In your article 'Shouting from the rooftops' (November issue) you said that under the Home Office reg's the max length of a base-load antenna is 1.5M and your diagram on page 36 shows the measurements taken from the top of the antenna to the underside of the loading coil.

However, in the regs on the back of my licence application form it clearly states:

3. Antenna

a) 'Overall length of the antenna, excluding the loading coil, shall not exceed 1.5M.'

From this, I assume the measurement would be taken from the top of the loading coil. Hence your diagram is wrong. Does this mean that you could mount your home base 7M above the ground and have a loading coil of infinite length — allowing for the Civil Aviation Authority reg's — thus getting over the height restriction on antennas?

Super Oscar  
Aylesbury  
Bucks

(That feature was written before the more detailed antenna spec on the licence was released. So, yes, the 1.5M height restriction does apply just to the whip excluding the coil.)

# WHEN YOU FOR A SQU DON'T CO WITH A



It's the easiest thing in the world to walk into a CB store and walk out with a rig.

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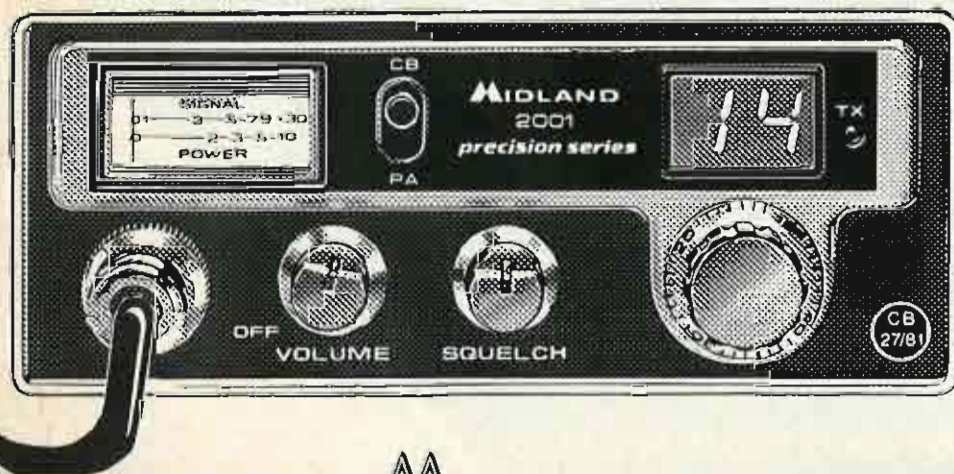
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# HAGES

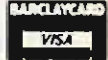
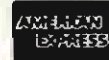
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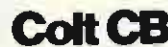
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I am interested in Shellposts COLT CB. Please send me details of my local dealer.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Post to: Shellpost Ltd.,  
185 The Rock, Bury,  
Lancashire.

# Give us a break

## Mon sherry

Dear Breaker,  
You've had letters from Germany and France, so here's one from Cyprus—just to let you know that Breaker, apart from being a good mag, is my only contact with the UK CB scene, so keep up the good work. Ta!  
*Hawkeye II*  
(Ex Shostown Breaker—Stafford)  
BFPO57  
Cyprus  
(I'm sherry, I'll read that again...)

## Ham roles

Dear Breaker Dribble,  
I have just recovered from reading that apology for an article 'Ham Signals'. For all the space it took up, it was pretty thin on information, which I suspect came second hand from other magazines anyway.

Two metres is not wholly channelised, which is the impression the author gave, only a small part is, for repeater and simplex operation. The rest is non-channelised and any frequency can be used with certain sections allocated to CW (morse), amateur TV, SSB, FSK, RTTY, FAX etc. 400 watts PEP max output power combined with the small high gain multi-element beam antennas available on this band allows moon bounce and DX under certain weather conditions.

Full 5/8 wavelength antennas combined with small 12V burners in cars makes the author's 10 miles average max copy distance a farce.

They are right to insist on morse proficiency for class A licenses. CW is still the major mode of operation on the HF bands and below and on 10 metres. It uses simple equipment, needing only 10W power and takes up less of the band than the comparable phone signals.

Also, CW is an international language, the abbreviations and Q codes having the same meaning in all languages.

Please do encourage people to take a serious interest in Ham radio, but not to dipstick sideband on ten especially when FM kicks them off the highband.

Yours sincerely, an ex-CBer, soon to be a ham.

Please have the balls to print this.

*L Swift*  
Shirebrock  
Notts

(The facts used in the feature weren't cribbed from another magazine—they came from an experienced ham operator. We thought he should answer. He did. The letter writer is quite correct in that neither 2m nor 70m are fully channelised. A small portion at the bottom of the band is used for morse, (almost non-existent on VHF). The next bit is used for SSB, the next bit, somewhat larger, (up to 145 MHz) is used for any mode or even cross mode

(CW, SSB, AM, FM, RTTY, TV etc). The next bit, up to near on 146 MHz (nearly half the band) is channelised in 25 KHz steps for repeaters and FM simplex.

Whether your letter writer likes it or not, 2M is very like CBFM in terms of signals encountered around the band (about 80% of all signals at any one time). But, as you correctly say in the article, many other modes are allowed, which is not the case with CB.

Your letter writer can't read (or spell or punctuate come to that)—you say there's a range of 10 miles mobile to mobile, which is the case. A much greater range, fixed station to fixed station, is possible with all the goodies mentioned in the letter (say 150-200 miles), although to satisfy Mr Swift, I suppose we ought to mention that under very rare specific conditions, even greater distances (like 1000 miles) are possible using ducting, meter scatter, aurora etc—as you correctly pointed out.

Feelings amongst amateurs about morse are various. Where Mr Swift is definitely wrong is in his assertion that 'CW is still the major mode of operation on the HF bands below and on 10 metres'. Less than 10% of all amateurs world wide use morse as their major mode of communication.

Finally, you might just like to clear up one fact which, if Mr Swift could read, or was an amateur, would have pointed out. Our frequencies do not stop at 24, 250 MHz—they in fact go on up to 24.25 GHz (an error of 1000 times!) It is correct to write it as you did, it's just that nobody usually does and to read 24,250 everyone would think it was 24.25 MHz. See?

*Mr Brian Prew*  
G4 FJA

(Don't include me—I'm just the go-between.)

## Mickey taking ...

Dear Breaker,  
The mag's fab (blah blah etc) but in your November issue you said (and I quote) 'We don't like burners, we don't believe they're part of CB, we don't think anyone should be using them' (unquote).

So what happens? You've guessed it, I open up your December issue and what do I see on page 2? Three of them! I rest my case.

*Mental Mickey*  
East Yorkshire

(Always one, isn't there? It is illegal to use burners, and that is one of the few CB related laws with which we agree, but it is not illegal—yet—to advertise or sell them. Our advertisers book, and pay for, their space and it is up to them what they decide to promote in their space. However, we don't have to agree with them—and if we don't, we'll say so. We'll be looking at burners in a future issue. Not to promote them, but they do exist and it's ignorance that often causes the problems.)

## Threatening

Dear Breaker,  
Legal 27Mhz CB has been with us for a while now, and I must say it seems to work. But it would work a lot better if it were not for the sidebanders and others using hi and hi-hi channels on AM, creating interference and blotting out legal operators.

I expect that many CBers will be unaware that they are causing interference to the new system. For those who don't know, and don't want to interfere, please stay below channel 56 (16 high), which is 27.605Mhz, and above channel 11 on the hi-hi band, which is 27.985. If you stray onto the 28Mhz band, you'll annoy the hams and some operators have already threatened to jam 27Mhz if this occurs.

I have had experience, during these last two weeks, of breakers who are deliberately jamming channel 14 of the legal system in the South London area, with powerful transmitters. One expressed his feeling that he didn't like the new system, and was going to jam it. Only in more

colourful language. If this happens I suggest that you use the next highest available channel as the calling channel (listen before you speak), until you have cleared the area or the problem ceases. Then report the matter to the GPO. Such people deserve to be caught and heavily fined, as they are doing no favours for the cause of AM CB either.

I have no quarrel with the AM CBers—I have been on AM myself for over a year. I have checked out the range of both systems, mobile to mobile, and found the difference to be insignificant.

So, if you're staying on AM, please keep off our frequencies. If you want to DX then become a licenced amateur radio ham. I won't hesitate to report interference in my area, and other local legal breakers should do the same.

*Peter Braybrooke*

*Keston*

*Kent*

(Maybe we do have to get heavy—sad, but what's the alternative? Perhaps some of the offenders would like to write in and justify their actions.)

## Short note

Dear Breaker,  
I am a member of the Whiskey Radio Club, and I thought you might like to add our QSL card to your collection. Glad to see the Charlie Bravo card in Breaker because I am also a member of that club and have received some nice comments from

across the pond on both QSLs.  
*Whiskey Radio Unit 3*  
*Charlie Bravo 55W*  
*Pwllheli*  
*Gwynedd*  
(For the benefit of those reading this in black and white, the Whiskey Radio card is black on silver. Bit trick.)



## Nom de pseud

Dear Sir,  
Having recently perused your October issue I was mortified, nay, nafting disgusted, to see that you have spuriously attached my name to a fictitious character in one of your more feeble attempts at journalism.

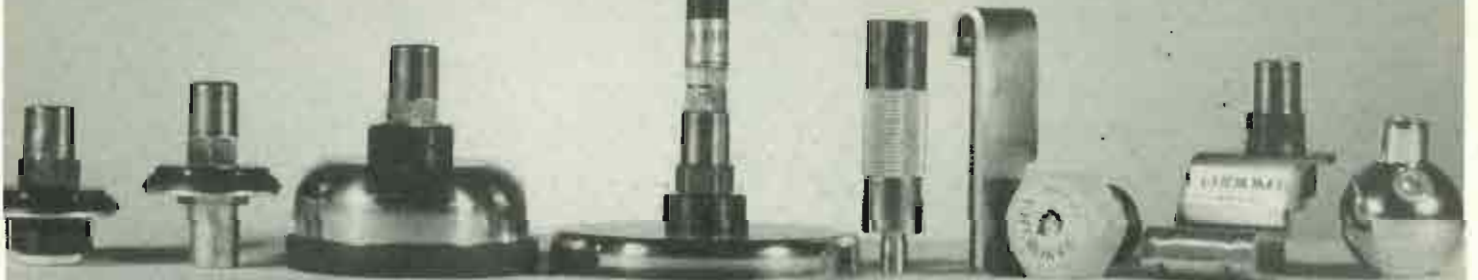
I wish it to go on record that I was just as useless as you, academically, and when you say you spent most of your time playing truant—who the nafting hell do you think it was you used to stand on when climbing over the back gate of the playing fields?

I therefore demand an immediate apology and, if you could see your way clear, perhaps you could send me a couple of quid? (I'm expecting a Postal Order from Australia at the end of March).

Yours, the obnoxious and loathsome,  
*Mark Poncia*  
*Brighton*  
PS I didn't buy your rag—I've got a friend who edits it.  
(Mark who? I only used the name because I couldn't think of anyone more loathsome and spotty.)

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# Citizens' advice

## Discount for disabled

I am disabled and I want to buy a CB. Can you recommend a set? Do you know of a dealer who gives discounts to disabled drivers?

Brian Skinner, Alcester, Warwick.

It is not really fair of us to recommend any one set until we've tested it and you'll find our opinion in our monthly test reports. Your choice of set might well come down to price and specification, both of which can be checked in our Which CB? guide. If possible, try out the set for ease of use. As for discounts, Les Gay of the Exeter TV and CB Service, 182 Cowick Street, Exeter (T5861), is offering 10 per cent discount to all disabled customers. And it's worth getting in touch with Touch CB, a charity organisation specialising in CB for the disabled, at 99 London Road, Slough, Berks.

## To the Krunch

Could you please inform me where I could buy a K9 Kruncher unit to cut out all the hiss on air?

D Fearn, Handsworth, Sheffield.

First we should point out that the K9 Kruncher is not a filter. What it does is take all the incoming signals (including the hiss) and let you hear them at one volume. Because of that, weaker signals appear to come through clearer. The K9 is available mail order from Skylab CB, 2c Keighley Road, Bingley, but as they're presently introducing a new version, you had better contact them for the price.

## Lost for words

I have a KWS 1001 rig, but I don't have a handbook to go with it. Do you know where I could get one, or know anyone who could supply me with a circuit diagram and frequency chart?

Pathfinder One, Mansfield, Notts.

A bit difficult this one. The trouble with AM sets is they were nearly all imported illegally (in the back of freezer lorries mostly), so there are no importers to give any back-up service. Should any readers have the information, send it in (a photo copy will do) and we'll pass it on. Alternatively, let us know the problem and we'll sort it out.

## With knobs on

As a newcomer to the CB world I've got a couple of questions about the controls on CB sets. What do squelch and RF gain do?

Night Hawk, Ormskirk, Lancashire.

Squelch is a way of cutting out the background noise on CB, much of which comes from distant signals too far away to be

heard clearly. In effect it progressively cuts out the weaker signals as you turn it up, so only the strong local signals come through. It's essential on all CB's. RF gain controls the amount of amplification in the RF amplifiers, which handle incoming signals. This means if a signal is particularly strong you can turn down the RF gain and protect your set (and your ears) from it. A nice refinement on a set, but not essential.

## Sets change

How do I approach the Customs and Excise when I want to convert my set? Is there a central address I can write to?

R Budd, Cranleigh, Surrey.

The first thing to do is contact the local Customs and Excise office. They will tell you where to pay your £5, which covers any excise not paid on the set, and they should also be able to suggest approved conversion shops in your area. It is up to you to get the set converted, buy a license and have the CB 27/81 stamp engraved on the set.

## Aerial display

Why don't they make a bigger legal aerial for home base use? I don't want to use an illegal aerial, just a decent legal one. At the moment, we can only reach the end of the street.

Red Robin, Pedmore, Stourbridge.

The legal specs are quite clear about antennas. A 1.5 metre whip with base loading is all that's allowed for home base or mobile use. The reason for this is that it limits the amount of power you can transmit with a legal four watts down to two watts effective radiated power (ERP) which in theory lessens any TVI you might cause. Remember, though, any antenna mounted above seven metres has to have a 10dB attenuator fitted which reduces the power of the set from four watts to 0.4 watts. We don't like it either but if you want to stay legal, that's yer lot. Unless it's changed...

## Home on the range

Does the range of HO spec rigs vary from firm to firm—and what sort of average range can I expect?

Prophet of Doom, Plymouth, Devon.

The Home Office specs limit the power output of any legal set to four watts but the better quality sets use more advanced circuitry, which uses that power more effectively—giving the set a better range. Of the sets we've tested, the range hasn't varied too much, although the quality of sound does differ. Sets with better tone and noise filtration controls and superior sound reproduction make it easier to hear incoming signals. Range

varies with the surroundings—it will be cut down if you are surrounded by tall buildings which shield the signal and uninterrupted in open country. Expect something like 3-5 miles around town and around 12 in open spaces.

## Buy for now

Would you recommend the Amstrad 901? How would using it with a nine foot whip enhance its performance, and how would that compare with the K 40? Is the K 40 best for home base use, or is a Pan 5/8 or Mini GP better? Can you recommend a 10-20 watts power amplifier for the Amstrad? I am not intending to use any of this in Britain.

S Naik, Manor Park, London.

Questions, questions. First of all, the best way to find out about

the Amstrad is to read the test in this issue. As for the rest of your questions, they are very difficult to answer as you say you'll be using the equipment outside this country. The Amstrad is unlikely to be legal anywhere else in the world, and it will not be legal here if you were to use a power amplifier or a nine foot whip. Comparing a big antenna to a legal one is pointless as all legal antennas are designed to be restrictive. You would be better off buying equipment in the country you're going to.



## Cover story

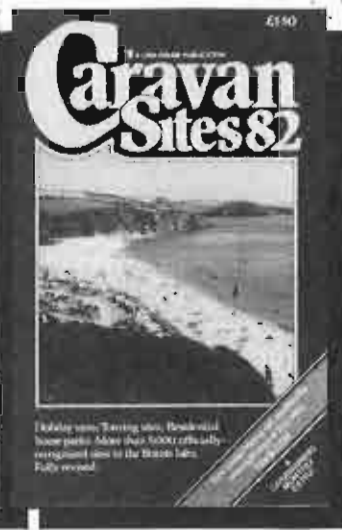
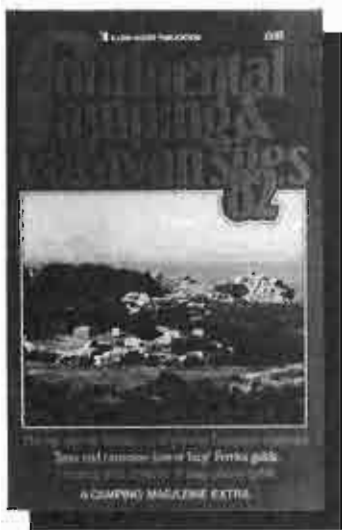
Do you know anyone who makes brackets to fit a CB to motorcycle handlebars? Also, is it possible to buy a waterproof cover which would allow me to use the set in the wet?

P McLenzin, Prescott, Merseyside.

You're on your own with this one we're afraid. You'll have to adapt ordinary brackets for your own use, but it shouldn't be too

difficult to fit CB as we've had many letters from breakers on bikes in the past. Waterproofing your set is more difficult. In America waterproof sets for use on boats are available but there are none in this country yet. Any home made set-up to keep the rain out is likely to leak and connect you directly to the bike's battery through your CB. Fitting a fairing does seem to be the answer. Or wait until a purpose-built bike rig comes along.





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**BREAKER**

# Lowdown

## Headlines

Just a quickie. If you've read Breaker for a while you'll know we've covered CB and motor bikes a few times, and we always say the best way to use one is with a head set built into your helmet. The next problem is finding a head set that'll fit — here's one answer. Write to Apache Import and Export, Apache House, 125 Brockhurst Road, Hodge Hill, Birmingham, and they'll write back and tell you where you can get one.

## Happy ending

When Alison Inman didn't meet her mother as arranged one night, the police started a search for her around her home in Farnham, Surrey. Her parents also called on the local breakers to help in the search, and although it was pouring with rain, breakers from 10 miles around answered the call and helped the police scour woodlands and graveyards.

Any story like that deserves a happy ending, and this one is no exception. At 5.30 the next morning Alison was found asleep under some bushes two miles from her home by two breakers and a policeman. Everyone went home, including Angel Delight, who'd stayed up all night to co-ordinate the search on CB.

This story will not surprise anyone who's been interested in CB for a while. In the past breakers have often gone out of their way to help in searches where the fact that they're in radio contact has speeded up the whole business. And Peter Inman, Alison's father, was full of praise for the breakers who helped bring her home safely. One thing though, Peter thinks that if the breakers had been on legal FM instead of AM the lack of range would have meant that fewer people would have joined the hunt, and so his daughter may not have been found.

A good point, but once FM is established, surely there'll be so many breakers sitting on your doorstep that range won't matter?

## Rich kids

When we were kids, the only present we got was half a dead rat in a shoe box tied up with string. And that had to go around nine of us. Eee, but those were good days. Depression, unemployment, disease — grand.

Not like now though, with all these rich parents running around in their Mercedes and buying their spoilt kids expensive toys for birthdays and the like. Just take the Pines Police Bike. It's got its own engine and can be fitted with its own CB, and anyone up to 13 or so can ride it. When we were 13 we were working down 'pit for 25 hours a day, we never had the £120 they want for the bike, or the £80 it costs to fit the



CB. No, we had it tough. There's no way we could go Hobbies and Models, 21-23 Ballards Lane, Finchley Central, London N3 for stuff like that when there was 18 of us living in a matchbox in the middle of the road. And do you know, if you tell kids that today they don't believe you . . .

## Into TOUCH

We all know by now how useful CB can be to the disabled. We've covered the topic a few times in Lowdown, in our feature CB for the disabled (issue 10) and in readers letters. The response to our feature was so great that we're planning a follow up, so keep an eye on Breaker over the next few months.

And so to TOUCH CB, a new charity which has been formed to help provide CB for the disabled, especially where they cannot afford it themselves or where they need adaptations. The charity was formed under the charter of an existing children's charity, and is at present applying for its own charter.

They plan to supply a licenced rig, antenna and power transformer to any disabled person who requires one on an extended loan. The disabled person can keep the set for as long as he or she wishes, but to ensure that any sets no longer wanted are returned it's asked that a deposit be placed with TOUCH. At present this is around £25 and local firms and institutions that may wish to help are encouraged to help meet this. The money is returned in full when the set is sent back, and while the person keeps the rig the licence is paid every year.

All accessories that might be needed, power mikes, speech processors, external speakers and slide mounts can be bought locally or through TOUCH at reduced prices. Special modifications such as touch or speech control are available, though in some cases a small charge might be made.

If you want to know more about the scheme, contact TOUCH CB at 99 London Road, Slough, Berks.

## Church news

Chapter one. And the Lord spoke unto Mr Peter Law, or Southern Cross as he was known in the Land of the Children of CB, and commanded him thus, saying 'Go out into the lands of West Kent, Bromley and Bexley and speak unto the peoples living there unto'.

Chapter two. And Southern Cross, being a diocesan secretary, and being blessed both in the eyes of God and the Radio Regulatory Department, did move among the people of West Kent, and of Bromley, and of Bexley, and of the surrounding lands, and spake to the faithful and righteous of those provinces, and did counsel them thus, saying 'Give unto me your handles and rough 20s so that I may compile a register of the Godly in the land of Rochester'.

Chapter three. And the believers moved to Southern Cross, and with him, in the name of the Lord, to gather together a list of handles for the greater glory of CB.

Chapter four. And God was pleased, and sent to Southern Cross many fine copies, and milk and honey flowed upon the land of the children of Rochester. Amen.

## Voxing clever

Maybe breakers should pay some attention to their public image — it seems some people are a little wary. Voxson, sole UK agents for Tenvox products, have just announced that their one year warranty on their ICE systems is to be extended to two years. Fine sentiment — but will it apply to their CB set?

Er . . . no. Voxson say they are waiting for 'further knowledge of their clientele' before committing themselves. Their normal one year warranty on their ICE systems is to be extended to two of which they say: ' . . . experience has shown that even these particularly robust, high quality units are too open to inadvertent abuse . . .'

It will be interesting to see just what conclusions they come to.

## Recorded delivery

At last a beginners' guide to CB that you can listen to without collapsing into fits of uncontrollable laughter. Unfortunately it features our very own Richard Nichols, but that aside, it's really quite good.

It's called 'A Guide to Citizens Band Radio' and apart from the aforementioned radio star and bar support, it also features Dave Lee Travis and Richard Hudson-Evans, who tell you everything worth knowing about the history, jargon (not too much, fortunately), installation and use of CB.

There's even some music thrown in, which makes the whole thing slightly reminiscent of the 'listen and learn' broadcasts we used to get at school. You'll find it on sale at Radiomobile dealers, record stores and CB shops. You can always record over the RN bits. . .

## Wheeler dialers

Back in the days when FM CB was first suggested, a lot of people said it would never measure up to AM. The range, they said, would make the service unworkable. Now, as we all know, the FM service has turned out to be pretty good, and the range is almost on a par with an ordinary AM set. But how would you like a set that can reach anyone in the world from your car? Sound a bit far fetched? Well, it's not really, it's a car telephone.

We've covered car telephones in Breaker before, but AirCall, with over 8,000 subscribers, is one of the largest independent networks in Britain and they have just launched their new Interconnect system nationwide.

In the past, callers have had to give messages to an operator to pass on, but now it's possible to patch directly into the phone network so you can talk directly to anyone on a phone in the World. Provided they're not engaged.

Mind you, none of this is cheap. Installation costs from £27 and the monthly rental is £75, which means you could pay out every month what you've paid in total for your CB. But then you can't experience the delights of wrong numbers on CB, can you?



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Serial No. ....

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2. Are you a Federation Member? .....

SIGNED .....

DATE INSURANCE IS TO COMMENCE .....



# Lowdown

## Name that loon...

We've noticed that a few personal call-ups are being used on channel, so we thought we'd pass on a few we've heard:

Van Gough, you got your ear on? The Pope, are you on the balcony? Medicman, you got your stethoscope on? Canary, you out of your cage? U Boat, you on the surface?

Know any others? Drop us a line.

## Family favourites

Had a note from Richard Duncan, who is presenting a weekly radio programme on CB for the Forces, and civilian, listeners in Germany. We're keeping him up to date with the news from Blighty but he says he'd like to hear from anyone with connections with the Forces' CB world over there. Drop him a line to The British Forces Broadcasting Service, Germany, BFPO 19. And that's an order.

## Canonised

You know something is a success when the BBC starts a programme dedicated to it, so it's a sure sign of the strength of CB that BBC Radio Scotland now has its own CB radio show.

Called the Breaker 810 show, it's broadcast every Sunday evening from 5.05pm until 5.50pm, presented by Noel Cannon (Tennessee Superpicker). It features news and views on CB with equipment tests and legal advice. It also features a lot of country music, which is great if you like that sort of thing and murder if you don't.

The show also reckons to have the largest unofficial CB club in the country, though what the difference is between an official and an unofficial club we're not sure. What's more the claim to have the largest membership may upset some people, especially the big DX clubs. We don't want to appear to be harping on about this, but there is one last criticism—the junior section is called the Breaker 810 Carpet Monkeys Club.

## Firsty work

It seems everyone wants to get in on the 'I-was-first-with-a-CB-licence' bandwagon. It all seems a bit pointless when anyone could buy a legal set two weeks before November 2, and in any event there were plenty of AM breakers operating on the legal frequencies through their naughty multimode sets.

Anyway, next up on the 'I-was-there-first' roll of honour is Rupert Carlidge, Managing Director of Plustronics, who sell Midland sets in Britain. He was at Newcastle-Under-Lyme Post Office at one minute to nine November 2 with the head postmaster of Stoke on Trent, Mr Cole, to see that everything went well. And what's more, we've got the pictures to prove it.

And the result of all that effort was that Mr Carlidge was the first legal breaker in the North Staffordshire area. Something to tell his grand children no doubt.

## Company plug

Following hot on the footsteps of last month's piece on interference, come words of wisdom from Champion, the spark plug people.

As they rightly say, interference on the new FM system shouldn't occur at all, but it does—so something has to be done. We've gone over this ground several times now—suppression kits and the like—but they make one new point which is worth a quick mention.

It's all very well suppressing everything that moves but what happens if you come within range of someone else giving out interference? Exactly—you get a large helping of snap, crackle and pop.

Champion—in their press release, which presumably will also be going out to the major motoring publications—emphasise the importance of suppressing your vehicle so it doesn't interfere with other people's. This is obviously in their own interests commercially, but any move which makes the general public aware of the problem can't be bad.

If you're still trying to cope with your own problems, and you're in the market for suppressed spark plugs ensure an 'R' appears in the type number—the RN9Y, for example.

The picture shows a cut-away of a suppressed plug—the arrow is pointing out the resistor built into the central electrode. Neat arrow, huh?

## Select area

Yet more wonder technology from the chips with everything brigade. The Tenternet is a selective calling device which will send out or receive any one of eight pre-set coded signals over the air to alert another user that you want to contact them.

First of all you need two Tenternets, one on your CB and



another on your friends. If you want to call him up, you select his code from the eight stored in the box and press a button. The unit then sends out a coded digital signal over the channel which is picked up by the other unit and recognised as its call sign. Then, depending on how you've set it up, the unit will ring a bell, light a light and otherwise tell you that someone is calling you. It means that you don't have to listen on channel 14 all day to see if someone wants to talk to you, this set will do it for you.

The coded signal is a very short blip, so it can be sent down a channel already being used without upsetting someone else's conversation. Clever huh?

All this will set you back around £70, and if you want to know who's selling them in your area you'll have to get in touch with Tenternet at 3 Ashford Road, Tenterden, Kent.

## Ch...ch...changes

We've had a few phone calls from people who've bought legal rigs and found that the controls on their's don't match the buttons listed in our Which CB? guide. You may have noticed one or two small errors yourself as you've gone over the list.

Now the first rule of responsible journalism is never to admit you're wrong, and don't worry we're not about to. Neither will be bore you with the details of how difficult it is to write a buyer's guide when you've been up all night nursing a kid with measles, the wife's just gone back to mother and the gear box has fallen out of the car. No, we don't want your sympathy.

We'll give it to you straight. No beating about the woss names. As we write the magazine some time before you get to read it, you can see there's a fair chance that things will change in the meantime. With CB, things changed so quickly in the early days that it's lucky anything in the guide stayed the same. We had entire ranges change hands and names over night, and the number of changes that took place between us seeing a prototype and your buying the production model means they could be two different CBs. And if

you don't believe us take a look at the Amstrads on the cover of the September issue and compare them with the rigs on sale.

But things have settled down now, so it's all straight again. God knows, it isn't easy. Where did we put those Valium?

## Gently does it

How's this for a complete service? From a magazine already known for its brilliance in bringing you all that's best in CB, we now extend our service to music. Are there no lengths to which we will not go... to?

And this month's featured group is Mr Gentle, with 'One four for a lady breaker', but to protect the innocent we'll keep their real names secret. If you bought the December issue you might have seen an advert for them. If you didn't see it, we suggest you read Breaker a bit more closely in future, OK?

The record. Well, we played it a few times and we all agreed. Yes, it was a record. Not half as bad as most of the CB records we've heard in the past, and it wasn't country and western, thank God. Which leaves us with the difficult job of trying to say exactly what it's like. Well, it's not Mozart, it's not punk, and it's not heavy metal. There, that narrows it down a bit. Probably the easiest way to find out what it's like is to send £1.25 to Mirage Music, c/o 3 Edward Terrace, Folly Road, Folkstone, Kent, and they'll send you a copy. Easy.

## Still doing it dept.

Helping others in trouble department. Maggie May was on holiday in Tenby when her mother was taken ill. Enough to ruin anyone's hols and Maggie didn't know the way to the hospital. So she put out a call on CB, and up came her saviour in the shape of the Martian.

The Martian give them an escort to the hospital and then off he went. As Maggie says, 'This could have been somebody's life'. Thanks to the Martian, and to the other breakers around the country who've done the same thing and have never been mentioned. Oh, and Maggie, we hope your mum's all right.



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been bitten*



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To enjoy CB at its best get Cobra, known to CB'ers in the UK for over 2 years (and in the USA for considerably longer) as being in a class of their own when it comes to quality both in manufacture and performance — and that's important, unless you don't mind your rig being in the repair shop, or worse, constantly causing interference simply because the car vibration has loosened up one or two connections.

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# On Ice

## Stacks of sound

The best way to keep a company going during difficult times is to make sure you don't get caught selling the wrong products. If you've only got a few things to sell and no one wants to buy them you're in trouble, so the answer is to sell lots of different things. Diversification. Nice girl.

So BL sell cars and car parts (although it hasn't done them a lot of good), Dunlop sell tyres and all sorts of rubber ware and we on Breaker sell anything we can get our hands on. And buy the rubber ware.

It seems JWR did the same business studies course as we did, because these days they seem to be selling all sorts of bits and pieces to do with cars. You've all heard about JWR and engine parts, custom paints, tyres, seats and even CBs. What you might not know is that JWR now do their own in-car entertainment stuff.

The JWR Sound Stack, a three-component system for people with plenty of room in their cars, has a stereo cassette, stereo radio and a graphic equalizer with 30 watts per channel output.

Available later is the Sound Stack GL, which will feature a digital read out radio and a light display on the graphic equalizer. Both the sets are made to be easily removable and so can be used in your home with a suitable power pack. The basic Sound Stack will retail at about £150, and the GL at around £175 when available. Which just leaves you with the problem of where to put all that stereo in the car...

## British made

Now here's a rarity. Not only is this radio cassette designed in Britain, it's actually built here. It's the Motorola 7101 built in Stotfold, Hertfordshire, and it makes such a nice change to see something British on this page. Should really stand and sing the national anthem.

Right, now sit down and we'll tell you something about the set. The radio is long and medium wave with six push buttons, five medium and one long. The cassette has lockable fast



forward and rewind, auto eject and anti tape spill, as well as 20 watts per channel output. The controls on the set are the multi function sort, which means you use one switch for a number of things. The left hand knob on the set is volume and on/off when pulled out and balance when pushed in, with tone control sitting inside that on a pointer control.

The set is made to fit the standard dash board hole, and it's finished in special non-offensive crinkley black. It should set you back about £85, which is not a lot these days, and as it's British it's worth more than a quick look.

## One year on...

Tenvox, who as we all know make expensive and very nice stereo equipment, are planning to extend their warranty. They want to show people that their goods are reliable enough to last two years without breaking down, so they're extending their guarantee from one year to two years on most of their range. Only speakers and the Voxon CB unit are not included in the new deal, but they are still covered by the old one year warranty. Nice to see a company offering something for nothing for a change.



## Uher the one

Ever heard of Uher? No, he's not a full-back for Hamburg, although with a name like that he deserves to be. Uher is also known as Green Ice, which conjures up pictures of a mild mannered professional footballer by day turning into a super hero by night, righting wrongs, defending women and children, defeating evil.

Actually all that's rubbish (what do you mean you've noticed?). Uher is in fact a well-known brand of high quality hi-fi and in-car entertainment equipment which is marketed under the name of Green Ice. Well, if you had a name like Uher you'd change it as well, wouldn't you? Apart from being jolly nice to look at, Uher's main claim to fame is that it's being fitted to the Frazer Tickford Metro. You remember the thing, £3,000 of Metro dressed up by Aston Martin and sold for £12,000. Who said British industry was dead?

There are easier ways of getting a Uher though. You can go out and buy one in the shops, and depending on where you go and what you buy you'll spend about £135-£208. Not cheap, but then neither is the stereo.

The Uher CP8000 includes cassette deck, tuner and graphic equalizer. The cassette has chrome tape selection controls as well as balance and fast forward/eject. The stereo FM/AM radio has a distant local switch, stereo mono control and a quiet button. Unfortunately it doesn't have push button station selection, which is a bit poor on a set of this quality — even the stuff you get off the market has push buttons.

Finally there's the graphic equalizer, which has all the stuff you'd expect plus volume and fade control over the other two units. All together it will put out 30 watts per channel through the recommended FT301 three way pod speakers.

A nice touch with the Uher is that it all slides out and you can buy a rack and power supply for about £40 so you can use it in your home. Just like having your rig on a slide mount, though we hope the Uher is less easy to pinch...





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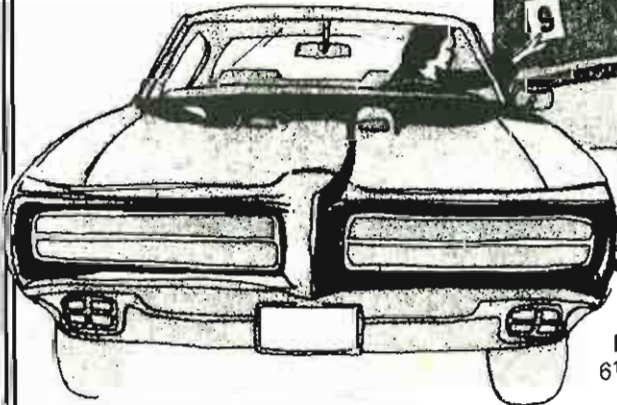
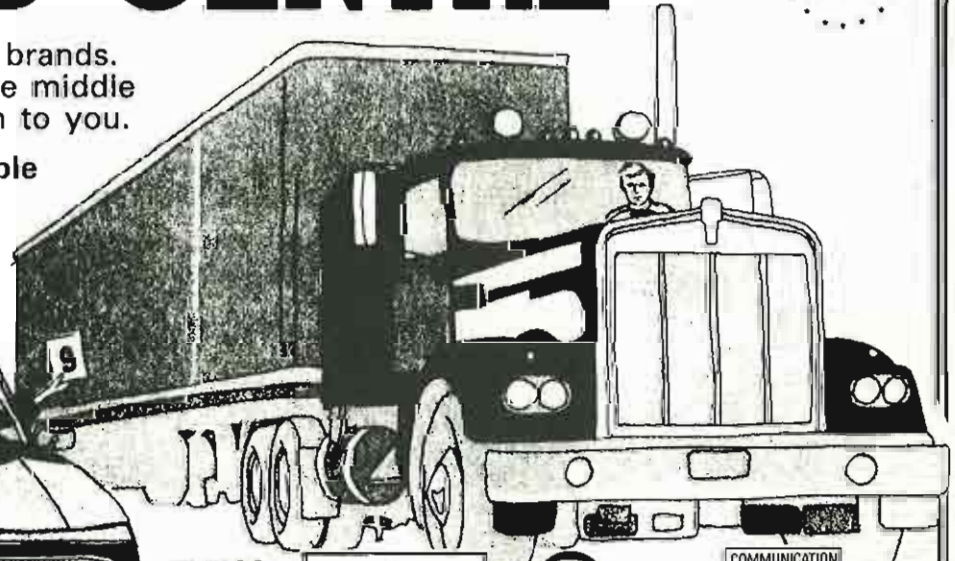


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# Wrappin'

Drove a J-car the other day. Impressed, huh? Bet you had no idea we were so in tune with all the latest up-to-date developments in the motor industry, did you? Well, as it happens you're right and we're not. Poned it off Triple C, or Cars and Car Perversions, as it's lovingly known in many quarters. It's not a bad rag, actually. Kind of like *War Cryor Watchtower* with bobble hats and Scotch Eggs.

But anyway. This J-car. These are the new generation of Vauxhall and Opel in the European market, in which they do not actually represent the total revolution in design concept and engineering which they are apparently thought of across the pond.

Yes, make no mistake about it, this is not a product of anywhere apart from the GM marketing department and the brains in Detroit. In the States the J-car represents a reasonably new departure in passenger car design. Aside from any other considerations it is, by Yankee standards at least, a small car. Traditionally American cars are designed and built on a scale roughly proportionate to something like a small battle cruiser with a helicopter pad; any bigger and you'd be able to land a Phantom on the bonnet. Which puts the J-car in one of the somewhat derogatory small car brackets; the designations, travelling downwards, go from domestic sedan through compact to sub-compact, the latter being roughly equivalent to an average European saloon.

Much of the J-car seems to be derived from the Chevy Citation (power plant for a start), which in turn, if we remember correctly, was largely based on work performed by the Opel part of GM Europe.

In any case, the new J-cars, sold as Cavalier, etc. over here, are front-wheel-drive, with small solid engines (1.3 and 1.6) which shove out as much power as an average 2-litre unit, give or take a tiny bit.

The one we blagged was a 1.6 Cavalier and v nice it was too. Some of us have never been all that keen on front-wheel-drive; the tendency to snatch at the steering plus all that mad scrabbling in corners (especially while pulling away from a standstill) has always seemed a trifle undignified; we grew out of Minis years ago.

The Cavalier wasn't like that at all, with steering which is largely speaking very well-mannered, only indulging in such frantic histrionics in response to an ambitious launch away from rest. And surprise surprise, the baby 1.6 will actually provide some action if you want it, without bouncing the tach needle on its stop.

While you're inside the car we should point out that the interior is what the 'proper' motoring titles would probably call well-appointed. This, as you are almost certainly aware, is a

cop-out for describing all the sumptuous leatherette, simulated velvet substitute and plastic wood in glowing terms. We'll settle for well-appointed ourselves, on this occasion, and merely add that it all seemed to be jolly tasteful, so there.

Control-wise, it seemed to have everything we wanted; as a rule driving any car even for a relatively short period eventually leads you to a point where you're thinking 'I wish it had a . . .', or similar. Didn't really think about it much on the Cavalier, and we didn't notice anything missing, which is another way of saying that it has a complete set of ancilliary equipment.

Very nice, is the overall impression we were left with. Very nice indeed.

In a way it's reassuring to find that our benighted and much-criticised motor industry isn't alone in having to get its burn into gear in order to face the ever-growing threat of Japanese imports; the J-car may not represent Detroit's final response or its finest hour, but it's at least an indication that they are facing the challenge.

This, incidentally, is true in areas other than straight family saloons. In the musclebound sportscar world, where American-built big-inch baddies like Camaro, Corvette et al have had it all their own way for so long, the Oriental threat has been growing for a while now. The Datsun 260Z was the first big-selling imported sportster to mark the trend, but since then Mazda's RX7 and now, for 1982, Toyota's sleek and swoopy redesign of Celica are proving remarkably popular.

Nice, then, to see the 1982 sportscar range from GM has had an extremely attractive facelift. Corvette is almost unchanged (don't knock it, and don't waste time trying to change the most winningest formula ever) but the Camaro/Firebird range has come



Above: The new Cavalier two-door from Vauxhall . . .



Above: . . . and the other end. Below: The tasty new Firebird.

off the drawing boards with its character preserved intact but a much more slippery and stylish line. Euphoria may not be exactly what it's been greeted with, but widespread approval certainly. Look at the picture and say you don't like it. Now take those stockings off. And leave your suspenders at home in future . . .



# On the side of the law

And still details of new models are arriving on our desks. Some are similar to others already announced — and internally, some are virtually identical — but some are new, vital and exciting . . . just like the soap powders they tell us about on TV. And they don't come much more different than the converted Stalker we've featured in colour this month.

## Banding together

If you thought the Commtron Nato — the rig that combined the illegal AM channels with the legal FM channels — was trick, take a look at the Stalker ST-9F DX. Selling for around £180, it features 80 AM channels, 80 FM, 80 upper sideband, 80 lower sideband and the 40 British FM channels. And it's on sale legally.

The ST 9F DX is a conventional Stalker set, imported into the Isle of Man dismantled, assembled there — with the addition of the UK FM channels — and brought over to the British mainland. Section 7 of the Wireless and Telegraphy Act, which prohibits the manufacturer of AM sets on the mainland, doesn't apply to the Isle of Man and since there is no import restrictions from the island to the mainland, the rigs come in with duty and VAT paid. So they can be sold and bought legally — although the usual law regarding use still applies.

As we said last month, the British Government is trying to close this 'loophole' in the law but so far any move to do so has been rejected by the Manx government. The ST 9F DX is coming onto the market in two forms — with the illegal AM, FM and sideband functions disconnected (and bearing the official mark), or with all channels operational and without the mark.

Apart from switches for the various functions, the ST 9F DX has controls for on/off/volume, noise blanker/automatic noise limiter, clarifier and RF gain.

The set is manufactured on the Isle of Man by Turmann Models Ltd, who also do mail order and live at Unit 2, Government Industrial Estate, Union Mills, Isle of Man. Contacts on the mainland include ADS Electronics, 239 Dickson Road, Blackpool, Lancashire and Romford CB, 2 Roneo Corner, Hornchurch Road, Hornchurch, Essex.

Also produced by Turmann Models is the more conventional, 40 channel FM Commtron CB 40F. We haven't had one to play around with yet, but it seems good value at around £70 or so. It features channel 9 and attenuator switches, as well as the usual channel selector, squelch, volume and power/signal meter.



Commtron CB 40F



The Johnson

## Johnson's baby

You've probably heard of Johnson before, and if you haven't, it means you've not been reading Which CB? very closely. Johnson have been in there for some time with some of the cheapest rigs on the market, under £50 for a well-equipped 40 channel rig. When a company offers so much for so little you have to wonder if they can really do it, after all it wouldn't be the first time someone has bent the truth a little.

Johnson, however, look pretty good. It's taken a long time for them to get their models into production, and as usual some features have changed on the sets from proto-type to production model. There is only one rig in the range, and for under £50 it looks very good value. It features PA, RF Gain, dimmer as well as the usual signal and power meter, channel selector and LED channel read out. On its own it's nothing special to look at, but at that price, who's arguing?



Harvard 400M

**Harvard**

Harvard have announced a range of five CBs with prices ranging from £20 to £100. The cheapest is a two-channel handset which operates on 14 and 19. Fine if you like chatting to a lot of people very quickly but not a lot of good if you fancy a longer talk. Still for £20 it's not too bad, with transmit and receive lights and a switchable squelch.

More use is the 410T handset. It has 40 channels, channel nine switch, variable squelch, hi-lo power, transmit and receive lights, signal and power meter and external power socket. You do have to pay for all that though, in this case £80. You might object to paying that for a handset when you could buy a mobile for the same amount, and you'd be right, as Harvard do two mobiles for £80, the 400M and 402MPA. The 400M looks the better bet as it has a front mounted mike, RF gain, roger beep, signal and power meter and transmit, receive, roger beep and channel nine lights. The 402MPA, on the other hand, has a side mounted mike, a rear mounted attenuator and a signal power meter. The bit that makes the difference is a PA switch, so if you really value annoying your neighbours, this is the set for you.

Top of the range is the 420M. For £100 you get a front mounted mike and all the little buttons that make CB so much fun — tone, RF Gain, channel nine, CB/PA and a front mounted attenuator switch are all there as well as the usual signal and power meters.

The set has a neat moulded plastic face plate with none of the fake chrome that often litters CBs — and it's certainly none the worse for that.



Harvard 402 MPA

**Transcom's two**

Transcom International sounds to us like it should be an international trucking company, the sort of people who run 40 tonne juggernauts to Istanbul. As it is they're in the business of importing 40 channel rigs into Bracknell, which sounds like a far better deal.

Although Transcom are planning to have a full range of sets early this year, at the moment they're only importing two mobile units, the GBX 2000 and the GBX 4000. The 2000 is a fairly basic set with only volume, squelch and signal power meter. It also has an attenuator switch on the rear. More up market is the 4000, which in addition to the features of the 2000 has RF gain, tone, roger beep, PA, channel nine switch, with Rx and Tx lights. Both sets are finished in brushed aluminium.

The 2000 costs £69.96 and the 4000 £89.96, which puts them in the middle of the CB market, although their later sets will improve the range with a home base and a few handsets.



Harvard 020 and 410T

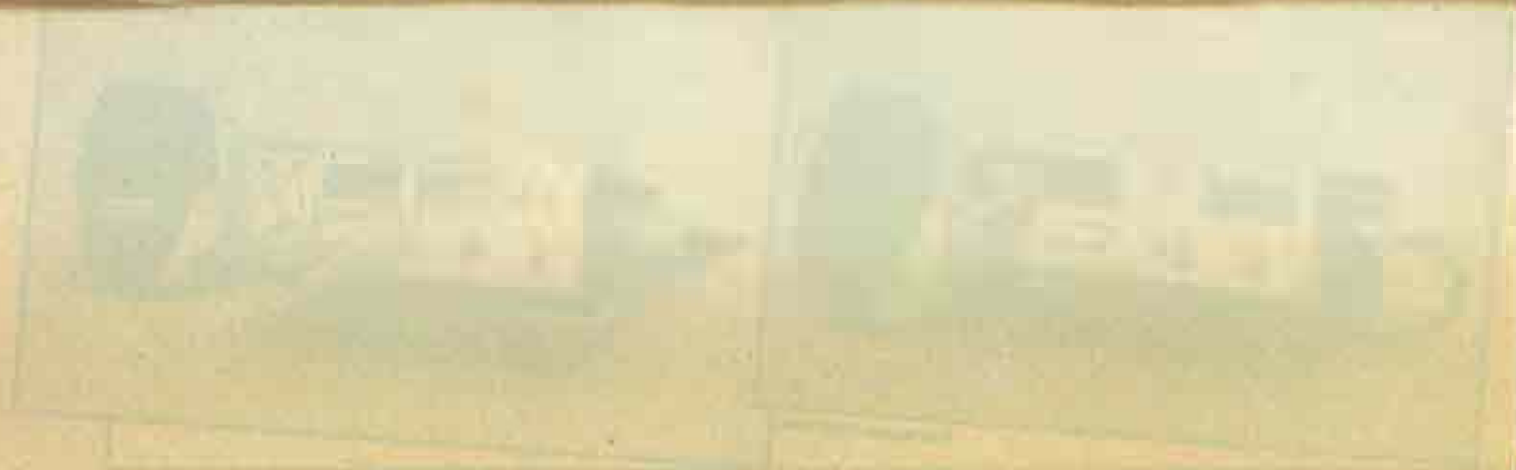


Transcom GBX 2000



Transcom GBX 4000

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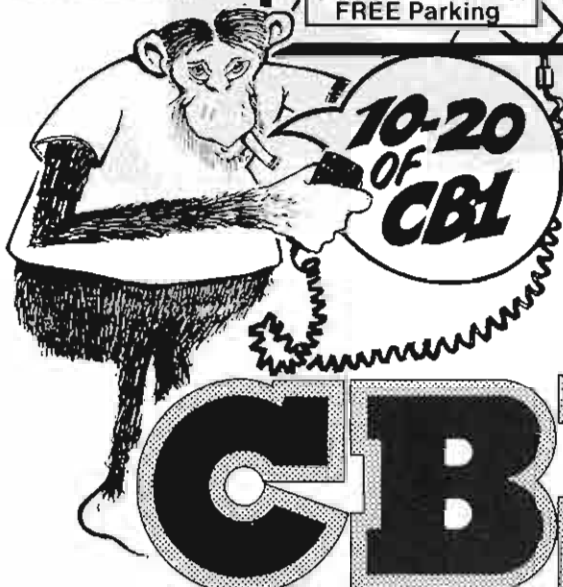
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# WIN! WIN! WIN!

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This is the big one. Your chance to carry away something so truly wonderful that we won't even try to describe it — mainly because we're not sure what it'll be yet.

The problem is, you see, that people are just so generous. Companies send in loads of goodies, we write a few words for the mag and then we're stuck with them. The goodies that is — we push the words on to you. So there comes a time in every magazine's life when the office just gets too cluttered with stuff people have sent in. The door gets hard to open, we can't close the drawers and it takes ten minutes to find our typewriters among the rubbish (sorry, prizes — what a give away) on the desks.

So we thought we'd give you the goodies to go with the words — and some of the goodies we didn't write about. Well, when we say give . . . Yes, a competition. Your chance to win . . . something. You don't need long lists of glittering prizes to tempt you to enter our competition do you? You trust us, don't you? We're sure

you'll just love it/them/her.

In line with Breaker policy we've decided to make the competition very easy: none of this name five transmitter diodes in two minutes stuff for us. No, all you have to do is think a bit. Don't panic, you don't have to think too hard, or we'd have to be clever and sort out all the entries. No, this is simple. Just look at the picture of the policeman on the bike talking to the men in the car with all the funny aerials. What do you think he's saying? Why don't you write in and tell us? Then if you're very lucky, and we think your answer is best, we might send you some wonderful bits and pieces. If we can print it that is. We might even give another prize (*steady on — MF*) the best unprintable one (copies available at £5 each in plain brown envelope . . .).

All you have to do, then, is send your suggestion in to Breaker, Link House, Dingwall Avenue, Croydon, Surrey. And mark the envelope 'competition'. Include name, address, telephone number



Picture by reader T R Yates, Oxford.

(photo and bra size, if applicable) and large amounts of cash (if you really want to win). Generous to a fault, that's our trouble. Might as well just hand over our salaries. No, you're better off with the prizes . . . whatever they are.

## One off the wrist

Do you feel lonely? Are you on the edge of despair? Do people ignore you when you ask for a 10.36? Not surprised, pal, we're getting a bit peed off with you ourselves. We tell so many people the time during a day on channel that we're beginning to feel like the speaking clock. Though slightly less polite on occasions. So what can we do to curb this timeless state that is sweeping the nation? How can we bring back a sense of order to this once great nation? Easy. What you need is a little time on your hands. And by a neat coincidence, we've got some watches for sale . . .

But these aren't your ordinary mamby-pamby 'my, is that the time, I must be going' watches. These are mucho macho 'sod the time, let's have one for the road' watches. The matt black coated case and strap are all very interesting, but it's the face that's really trick.

### Getting black looks

Emblazoned on the face is a Breaker logo, which is hardly surprising on a Breaker watch, but the whizz bit is that it disappears twice in every minute. Gradually fades away . . . and then appears again. Just like that. So half the time, the face is grey with the red Breaker logo, and half the time it's just plain black. And the little white arrow ticks round with the seconds like magic. 'Tis a wonder of science, and no mistake. Tom's been playing with it for hours — but when he's finished, I'm sure he'll like the watch too.

### Gnome-made product

The Breaker watch is made in Switzerland, the land of precision chronological instruments — and watches — but it amazes us that the country is so rich when they can produce racy little numbers like this at

such a reasonable price. Get the feeling we're about to ask you for money? Correct. Now, remember, this is a once in a lifetime, never to be repeated, too good to be missed offer available only through Breaker — but even if you could shop around, you wouldn't get them any cheaper than this anywhere else, I can tell you. Even if they were available. Which, of course, they're not.

### Time is money

So, if you want to impress your friends, and get right up your enemies' noses, just send us £14.99 (including small gifts to the Post Office and Treasury). How can we do it? To be honest, it's worth letting them go a bit cheap to stop you lot asking us the bleeding time every five minutes.

So fill in the form and send it to the address indicated with a cheque or postal order made out to 'Breaker'. Go on, buy yourself some time . . .



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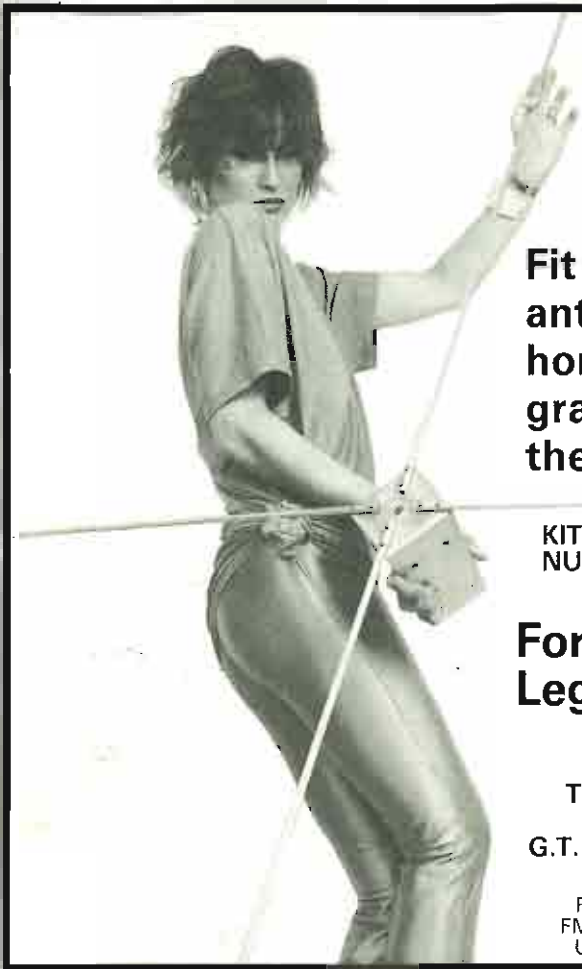
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# SPECTRAM

CENTRAL GARAGE, THURGOLAND, SHEFFIELD.  
Tel: SHEFFIELD 886113.

# Safe and sound

Remember when you were at school? Those human biology lessons behind the bike shed? And little differences were always settled amidst a storm of fists, satchels and cries of 'bundle'? Remember how you had to write an essay about your holiday at the start of a new term? No, neither do I. Much too old. Young Tom does though. Things have changed now, of course, and we're all far too dedicated to The CB Cause to take holidays, so when a company offers us a free . . . er, sorry . . . a chance to see how they operate on their home ground, we leap at the chance. I had a few days in Italy with CTE recently, so it was only fair that Tom should go on the next little beano. Well, I didn't know it would be a day trip to Birmingham with Securicor. This is his account.

Eight-thirty is a bit early in the morning for me. Normally I need two cups of tea and a bacon sandwich before the world starts to move, but catching the 8.35 Euston to Wolverhampton meant being up at the crack of dawn and risking a British Rail breakfast. Very dodgy. What's more, the invitation had been sent to Martin, but he's no fool, so as I trundled northwards he was still safe in bed. One of the advantages of being editor I suppose (*The only advantage, pal — MF*).

Mind you, it's not all bad. Securicor had paid for first class reserved seats to Birmingham so a bunch of journalists could go to see their car-phone showroom and fitting bay. They also do CBs now, which is why Breaker, and the other mags, were invited. One thing though — Rick Maybury from Citizen's Bland didn't make it, which led to the rumour that the whole trip was a wind-up by him, and we

would all be dumped in an open field in the Midlands.

As the train pulled out, the guard came on over the intercom, 'Good morning to all you last minute sprinters. You'll be glad to know you've just caught the 8.35 to Wolverhampton calling at Birmingham New Street.' Apparently someone wasn't too happy as the guard came back on about an hour later: 'To the two passengers who joined this train believing it was going to Preston, we'll arrive at Birmingham at 10.13, which will give you just time to have a cup of tea before you catch the 10.31 to Preston. Thank you.' The guard's name was Bill Finals, and anyone who can work for BR for 38 years and still have a sense of humour must be a saint.

Birmingham. The man from Securicor who travelled up with us was looking very pale. Anyone who's travelled 100 miles in close contact with us has every right to look pale, but it turned out he gets travel sick. It also seems he has a poor sense of direction because we went on a short tour of Birmingham City centre looking for a taxi rank and, by the time we'd found one and reached the showroom, our man was looking rather green. He went off to sit down and we, hardened journalists all, headed for the bar, er, I mean we started gathering information.

And then the grand opening. Mr Smith, Chairman of Securicor, pulled a little string and we all rushed into the showrooms, which is based in one of their cash handling depots. All in all it's a neat little set-up with a full range of car phones and two CB models on sale — the Unidem Uniace 100 at £100 and the 200 for £115, which can be fitted on the premises for about £20. Highlight of the demonstration was when Mr Markwick,

Securicor's Commercial Director, rang Finland direct with a mobile phone and was told the weather was, unsurprisingly, cold. The wonders of modern technology . . .

After lunch — the food was great but have you ever tried eating standing up with a glass of wine in one hand and a knife and fork in the other? Who says journalism isn't a skilled profession? — we had a chance to wander around the building and chat to people, which is when you really find out what's going on. The showroom-fitting bay is the first of a series which Securicor hope to set up across the country, and it's well worked out. You get the chance to select the equipment you want in pleasant surroundings and have it fitted to your car at the same place. Securicor see their main business coming from the radio telephone side of the business, which is not surprising as they run their own radio telephone network, and with the sets ranging from £400 to £900 you can see there's room for some profit. At the other end of the scale they will supply and fit an in-car computer, a cruise control, various car alarms or a CB depending on what you're after. The fitting charge for alarms and computers is £50 — not cheap, but then it's professionally done.

So with all that done it was time to go home, and as we trundled back to London the talk turned to CB, magazines and ideas for the future. Someone mentioned they were doing a feature on radio and fish (not us, I promise), which leads to the immortal question, 'What does a fish say when he wants to get on air?' Answer: 'One-four for a carp-ie'. And the funny thing is, they might well use that . . .



The Unidem Uniace 200 is the top of the Securicor range and features mic and RF gain, PA, tone and dimmer. At £115 it's a little pricey.



Securicor will fit CBs and radio telephones on the premises. This one's going into an XJS . . . not ours.



Bottom of the range is the Uniace 100, a good basic set. £100 seems rather a lot though. Still can't get used to seeing 'Securicor' on a set.



The showroom manager, Don Bell, in the showroom at Handsworth, Birmingham. Ring 021 525 7555.

# On the test of a wave

Last month the Breaker test looked at the two Harrier mobile rigs, manufactured for, and imported by, Dixons. This month we're turning our attention to the two Amstrad mobiles, the CB 900 and the CB 901, which are also available in major High Street chain stores (such as Currys, Argos and Comet), as well as the more specialist CB outlets. Amstrad are already well-known in the consumer electronics market for hi-fi products and have recently run an extensive advertising campaign in the press and on TV. Like the Dixons Harriers, they were among the first rigs on sale, so they have also quickly become established in the CB market. But do the sets live up to their name? The Ridgeback tells all...

Amstrad is a big name in the hi-fi world, so when I was given two of their new rigs to test, I began with high expectations. It's a popular theory that no major company will risk its good name on poor quality CB sets but it is, perhaps, a dangerous assumption to make. And a theory we will be putting to the test over the coming months.

## Appearance and controls

Both the CB 900 and the CB 901 are finished in the popular satin matt black. You might remember Breaker ran some of the first colour photographs of the early prototypes but the production models



that we tested vary quite considerably from those early designs. The local/distant and auto squelch controls are no longer included on the sets and the RF attenuator switch (high/low power) has been moved to the rear panel, which also features sockets for power supply lead, external speaker and PA outlet (901 only).

There are LED indicators for the receive (red) and transmit (green) modes with additional LEDs on the 901 for roger beep (red) and PA (green). An attractive red and green bar type signal strength readout replaces the more conventional meter. The mike socket is on the left hand side of the set, which, like the Harriers tested last month and a lot of the sets we have on the stocks for future months, causes problems with the mike cable pulled across the front of the set. The mikes themselves, supplied with both sets, look like something out of a low budget space movie and in my opinion spoil the overall appearance of the otherwise attractive sets.

## Ease of use

Switching on the sets for the first time is quite impressive with an array of bright LEDs. Both the 900 and the 901 are compact sets (although larger than the original prototypes which suffered cooling problems), so the space had to be saved somewhere. The result is that the controls were found to be too close together and operating the rig with



average sized (male) hands, it is difficult not to upset the other controls. This can be overcome if you're very careful, but it really needs smaller diameter knobs. For male readers, we recommend taking a small-handed female to fiddle with your knobs. Not sure the wife would understand though.

On the 901 we tested, the squelch control was found to have an intermittent fault. The background noise couldn't always be overridden and when it could, it had to be turned almost 3/4 of a turn to be effective, leaving very little adjustment. We suspect, however, that this was a fault unique to our set.

I personally like the roger bleep facility on the 901 (AGH! — MF), but it is switchable and on several occasions I was asked to turn it off (*Proper thing too — MF*). The bleep signifies the end of transmission and shortens the conversation by eliminating the necessity to say 'come back', 'break' or 'over' (*Too much exposure can also shorten your life, make your ears bleed and cause baldness — MF*).

The ease at which the LED bar meter can be read makes signal reports easy to give, particularly when you're driving, and can be seen at-a-glance from the normal driving position, saving a lot of eye strain. The mike supplied with our CB 900 tended to make the voice sound high pitched and on occasion transmitted only a carrier wave and not the voice modulation. We spoke to Amstrad, however, and they assure us that this is a fault common only to pre-delivery models, so sets on sale will be OK.

## Performance

Range tests can only be made out on the road and, as we said last month, comparisons are difficult because there are so many variables involved — weather, terrain and so on. Good copies were made on the Amstrads over distances of two to three miles in town and around eight in open country. Although, once again, we got out about 20 miles late at night when the airwaves were free of any interference and most other users.

Technically, both sets were found to operate within the Home Office MPT 1320 specifications but, as with the Harrier tested last month, power output was very much dependent on the SWR. Tests carried out with various antennas showed that the power output was greater if the SWR reading was around the 1.6 mark and a reading of 1.2 drastically reduced the power. This appears to be an anomaly of the 27 FM band and does not appear to be a fault of the set.

## Instructions

The instruction booklet supplied with Amstrad sets is one of the most comprehensive we've yet come across. Not only does it have fitting and operating instructions, it also contains information on the REACT emergency monitoring service, how to set up a base station, interference (causes and cures), a list of CB slang and the 10 code. But as in the Dixons booklet, it doesn't point out that the set must be set

on 'hi' power (four watts) when tuning the antenna because most SWR meters won't operate on the 'lo' (0.4 watts) setting.

## Conclusion

The Amstrad 900 and 901 are good looking sets spoiled by the appearance of the microphones. The controls have a smooth action but were felt to be too

close together. The large LED bar meter made it a pleasure to give signal reports and the contrasting colours, once you get used to them, make it easy to see which functions are being used at a glance. The compact design makes them an ideal choice for anyone short of space and at around £80 for the CB 900 and £95 for the CB 901, they represent good value for money.

# Amstrad

**Model Type:**  
CB 900 and CB 901

**Supplier/Distributor:**

Amstrad Consumer Electronics Limited, 1-7 Garman Road, Tottenham N17 0UF. On sale at major specialist CB outlets plus large chain stores including Currys, Comet and Argos.

**Specifications:**

	TYPE OF SET	NO. OF CHANNELS	SQUELCH	TO NE	RF GAIN	MIKE GAIN	PA	ROGER BLEEP	NOISE BLANKER	AUTOMATIC NOISE LIMITER	PA LIGHT	RX LIGHT	TX LIGHT	SIGNAL METER	POWER METER	DISTANT/LOCAL	CHANNEL 9 SWITCH	DIMMER	ATTENUATOR
900	M	40	●	●	●							●	●	●					●
901	M	40	●	●	●		●	●			●	●	●	●			●		●

M: MOBILE H: HANDSET B: BASE STATION

**Findings:**

	CB 900					CB 901				
	1	2	3	4	5	1	2	3	4	5
Overall appearance				●						●
Performance			●					●		
Mike — performance	●							●		
Mike — plug position	●					●				
Controls — facilities				●						●
Controls — ease of use		●					●			
Controls — sensitivity			●				●			
Meter readability					●					●
Speaker clarity			●					●		
Instructions					●					●

Key: 1-poor, 2-fair, 3-average, 4-good, 5-excellent

**Summary:**

At around £80 for the CB 900 and £95 for the CB 901, both represent good value for money. Competing as it does in the 'basic' end of the market, the 900 is very well equipped. It is rare that tone and RF gain controls feature on a rig in this price bracket. The 901 also stands up well against its competition. Their compact design and clean styling will make them a popular choice. Still don't like the mike though.

# Breaker Data

**BREAKER**



AMSTRAD

TONE



VOLUME



•off

TONE



VOLUME



•off

3  
Rx

SQUELCH

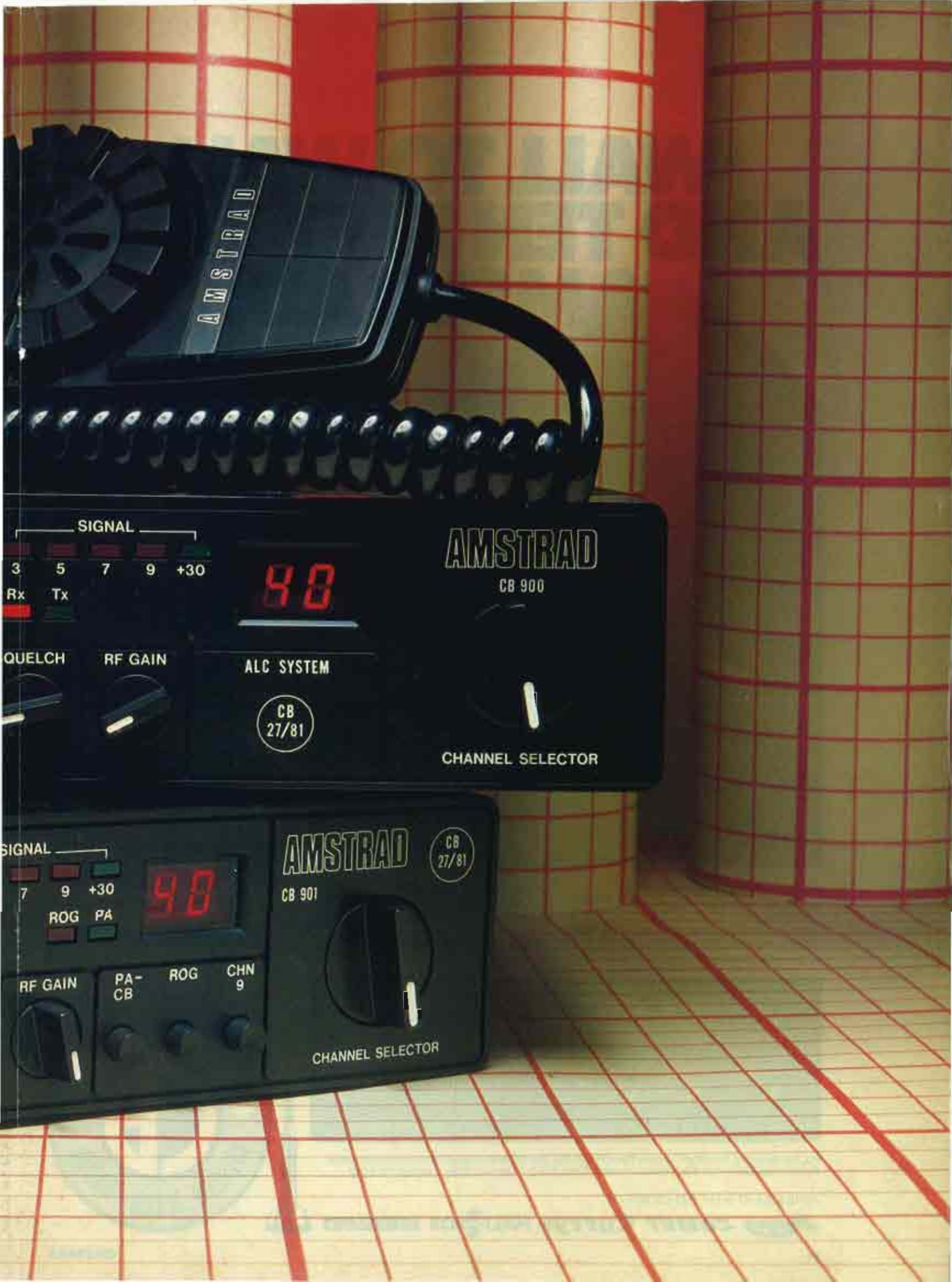
SIGNAL

3 5 7  
Rx Tx

SQUELCH

RF





AMSTRAD

AMSTRAD

CB 900

40

SIGNAL

3 5 7 9 +30

Rx Tx

QUELCH

RF GAIN

ALC SYSTEM

CB 27/81

CHANNEL SELECTOR

SIGNAL

7 9 +30

40

ROG PA

AMSTRAD

CB 901

CB 27/81

RF GAIN

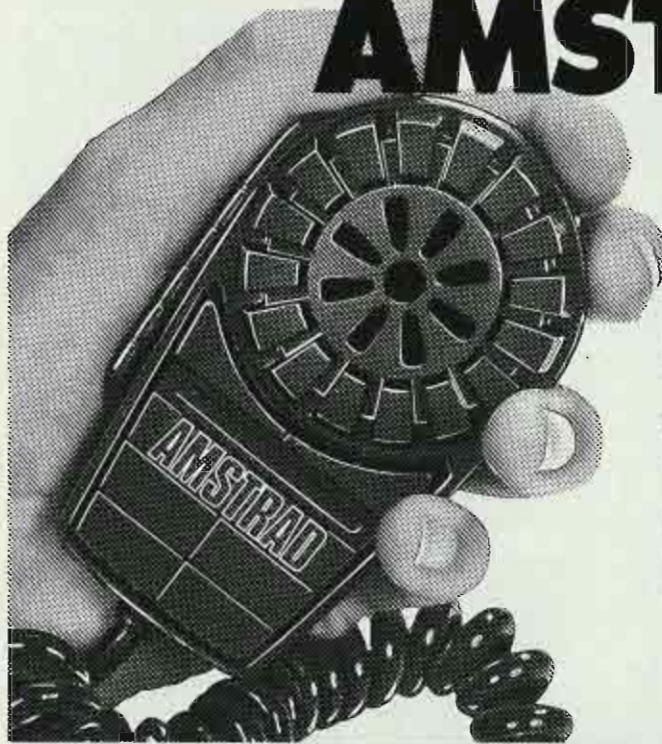
PA-CB

ROG

CHN 9

CHANNEL SELECTOR

# 'WALL TO WALL AND TEN FEET TALL, AMSTRAD!



Nobody knows more about in-car electronics than Amstrad. That's why we're at the forefront of CB in the GB with everything you need for wall to wall reception. A choice of two high performance, 40-channel rigs—both designed from the ground up for the 27MHz FM band and featuring MOSFET technology. Amstrad also offer a unique 1.5 metre triple-fixing antenna.

All come supplied with full fixing and mounting kits. And, with the rigs, we also give a free operating manual and CB guide.

Smokey and Buzby like Amstrad CB equipment too—it all fully conforms to the UK legal specification, MPT-1320.

Amstrad CB Rigs start from around **£79** excluding antenna.



Amstrad CB900 Rig. Highly advanced rig with squelch control, RF gain, LED "pound" meter, ALC system, tone control and LED transmit/receive displays. Note the CB 27/81 Certificate of Compliance symbol.

Around **£79**

Amstrad CB901 Super Rig. Features Roger Bleep, CB/PA, instant Channel 9 switching, squelch control, RF gain, LED "pound" meter, ALC system, tone control and LED transmit/receive displays.

Around **£95**



For full details of Amstrad Citizens Band Radio and the address of your nearest stockist, write to Amstrad Consumer Electronics Limited, (Dept A3) 1-7 Garman Road, London, N17 0UF.

AVAILABLE AT SELECTED STORES OF:

**Agas COMET Currys HALFORDS RUMBELOWS**

**PERFECT MATCH  
PERFECT RECEPTION**

Ensure peak reception with the unique Amstrad CBA 1500 antenna. A 1.5 metre shock spring, base-loaded, stainless steel whip with a choice of magnetic, clip-on or hard fixing. Around **£15**

**LOOK FOR THE SIGN  
OF THE CB LEADERS**



# Easy as QSL

Since the much heralded publication of *Breaker* Issue 1, many thousands of your QSL cards have been received, and what was then a minority CB off-shoot hobby has now obviously grown to a fully fledged hobby in its own right. From your very welcome letters, it's clear that some of you are not quite sure how to start QSLing, and whilst this has been covered in previous issues of *Breaker*, we are updating the information to help the newcomers to our hobby.

The expression QSL is taken from the International 'Q' code, used by Radio Amateurs and the World's shipping and simply means 'confirmation of communication'. Over the years this has been done with a pre-printed QSL card which gave basic details such as your signal strength, time date and place — gradually these became more and more personalised, and with the coming of CB radio, these began to be exchanged between persons just as a greetings card is sent.

Today, the whole idea of QSLing is to make nationwide contacts and to exchange your own personalised QSL card with friends across the world. From this will develop overseas correspondence, friendship and many of you will go on to make firm friends for life. Since I have been QSLing I have made many hundreds of contacts and now have many personal friends all over the world.

How do you start? Well, the obvious first requirement is for a QSL card, and many CB dealers now stock packs of standard cards, that just need your handle, name and address filled in. Very simple, but not really very collectable cards to the experienced QSLer, although they should always be answered as everyone has to start somewhere.

Individually printed custom QSL cards are far better, and the more colourful these are, the better they are received throughout the QSL world. Complex colour cards can be quite expensive, but you can have a two-colour card printed for quite a reasonable price, and with a little planning and forethought it will look really attractive. If your finances do not run to an elaborate custom design at this stage, may I suggest you drop a 25 pence stamp or postal order to Derwent Press of 69 Langstone Drive, Exmouth, Devon EX8 4HZ, who offer very reasonably

priced, individually printed QSL cards from their standard range of printing blocks, coloured cards and inks. There are many designs to choose from, all with your own personal handle, call sign and wording. Very nice cards and very reasonably priced.

For those of you with more money to invest in QSLing, there are many companies specialising in custom designed cards, and many have their own artists who will design a QSL card to your description or rough sketch, and then produce the finished card to your satisfaction. One word of advice — have the final price to you confirmed in writing before you authorise production of your QSL card, and ask for a proof, so that you can ensure all details are correct before they start printing.

One company, which has made a significant impact on the British QSL scene, is Custom Charlie of 14 Coldharbour Lane, Hayes, Middlesex. Telephone 01-848 9241. You might consider having a chat with your small local printer, who are always pleased with your business, and you can personally keep in touch with them throughout the production of your QSL cards.

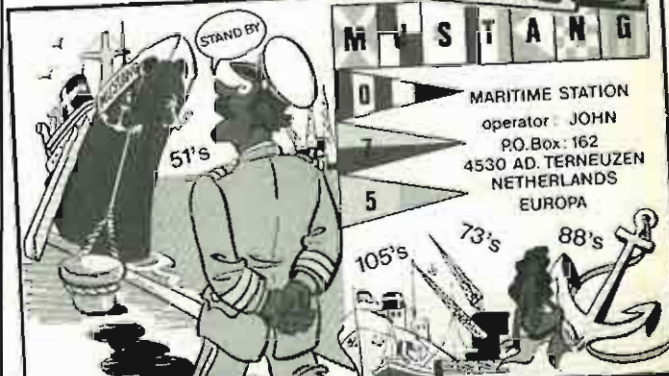
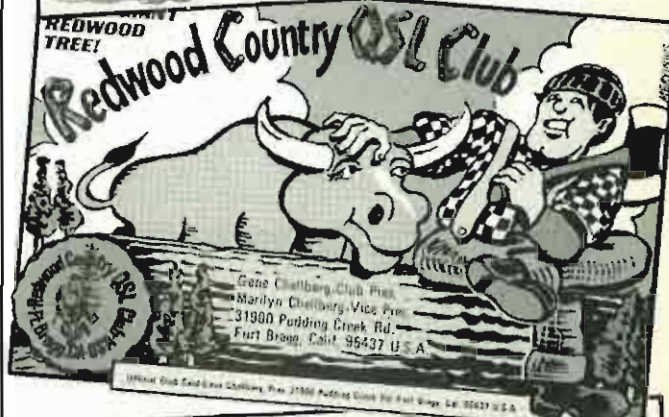
Many QSLers choose to decorate their cards and if you do not have a Union Jack included in the basic design of your QSL card, most stationers stock small self-adhesive Union Jack labels, made by the Ivy Series Press and costing about £10 per 1000 labels. These really brighten up any card and, of course, are very well received overseas, especially in the States.

Many QSLers have taken to putting a small personal label with short messages on their cards, and these can be purchased from Steepleprint of Earls Barton, Northampton NN6 0LS, who will produce 1000 personalised labels, printed black on gold, for £3.50. They look really nice and show that you have taken a little trouble with your QSLs.

Now that you have your own QSL cards, what's next? Well, the best way to make your initial contacts is to join a reputable QSL swap club. A list of these is supplied, and you should enclose a stamped address envelope with all enquiries. Start by joining a few of the British ones, then consider some of the better overseas QSL swap clubs. But beware. Some are just 'get rich quick'

outfits, so choose from my recommendation because I have had contact with all the clubs listed and all give a good club package, which will include the essential club rubber stamp.

When choosing QSL clubs to join, be guided by others. Read Easy as QSL every month in *Breaker* and this will guide you to which clubs are worthy of your custom, and do not hesitate to recommend clubs that you consider give a good return. The clubs will give you your first QSL contacts both at home and overseas, and if you follow the *Breaker* QSL Code, your QSLing will snowball as your cards are circulated throughout the world. In no time at all you will be getting cards from places you have never even heard of. It is courtesy in the QSL world to sign and date your QSL cards, and fellow QSLers always welcome a little message, however short, to add the final personal touch.





**THE BREAKER QSL CODE**

ALWAYS send two or three of your QSL cards.  
 ALWAYS include one or two different friends' cards.  
 ALWAYS personalise one of your cards with a greeting, and tell them where you got their address.  
 ALWAYS exchange at least the number of cards you received.  
 ALWAYS pay the correct postage for airmail or surface mail.  
 ALWAYS QSL back for cards you receive. Word travels fast in the QSL world if you don't.  
 ALWAYS use your club rubber stamps and unit numbers on your cards. It is always especially welcome to exchange with numbers of your own QSL club.  
 ALWAYS try to exchange 1-4-1 Colour and Black and White QSL cards.  
 ALWAYS try to use commemorative or special issue postage stamps.  
 DON'T send one card and expect six in return.  
 DON'T receive six cards and send one in return.  
 DON'T send cards surface mail and expect an answer within a week.  
 DON'T send scraps of paper with your name on — they usually end up in the

vertical file where they belong.  
 DON'T send QSL cards with your name and address scrawled on them — carefully constructed personal cards are much better.  
 DON'T join a QSL swap club if you don't QSL 100%. Any club only works when you do your part.

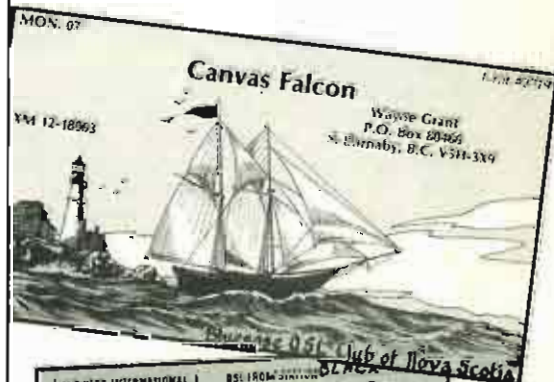
DON'T send a QSL letter that you wouldn't be pleased to receive yourself.  
 If you have any questions or problems after reading this, please drop me a line — The Medicman, 187 Walton Road, East Molesey, Surrey KT8 0DY — and I will always be pleased to help a fellow QSLer. Don't forget to read the Medicman Easy as QSL article every month in *Breaker* — this will give you all the best and latest in your new hobby. Happy QSLing.

**QSL SWAP CLUB ADDRESSES**

**BRITISH CONCORDE INTERNATIONAL CB-QSL CLUB**  
 187 Walton Road  
 East Molesey  
 Surrey KT8 0DY  
**BIG BEN DX CLUB**  
 PO Box 14  
 Godalming  
 Surrey GU7 1HY  
**ENGLISH INTERNATIONAL DX CLUB**  
 225 Arnold Street  
 Boldon Colliery  
 Tyne & Wear NE35 9BA  
**PAPABRAVO INTERNATIONAL DX & QSL CLUB**  
 PO Box 48  
 Preston  
 Lancashire PR1 1AB  
**WHISKY DELTA CHARLIE INTERNATIONAL**  
 PO Box 1a  
 Normanton  
 West Yorkshire WF6 2RX  
**SUPER STINKY QSL SWAP CLUB**  
 Postfach 2664  
 D 6750 Kaiserslautern  
 West Germany  
**AUSTRALIAN INTERNATIONAL QSL SWAP CLUB**  
 PO Box 855  
 Fremantle 6160  
 Western Australia  
**REDWOOD COUNTRY QSL CLUB**  
 31900 Pudding Creek Road  
 Fort Bragg  
 CA 95437  
 USA

**THIS MONTH'S QSL CONTACTS**

Jorgen Hansen	PO Box 614, Caracas, Venezuela 1010-D
Lady Paddesteel	Voophofstraat 32, 2271 BX Voorburg, Netherlands
Spencer E Ford	1171 South G. Street, Lakeview, Oregon 97630, USA
Hilbert Val	10 rue du Melspelt, 8993 Keispelt, Luxembourg
Ian Thompson	20 Monmouth Road, 24 RD, Stratford, New Zealand
Bill Grochowski	216 — 8th Ave SO, Clinton, Iowa 52732, USA
Arthur	PO Box 5172, Lisbon 1704, Portugal
William Ziepniewski	Half & Half Cottage, Middle Road, Warwick 7-09, Bermuda
Dagobert Hecht	09720 — Rudge Ramos, Post Box 5237, Brazil
Wolfgang Strobel	Ried, Dorfstrasse 10, 8113 Kochela. See, West Germany
Bob Seberini	PO Box 1892, Edenvale 1610, South Africa
John	PO Box 162, 4530 AD Terneuzen, Netherlands
Steve McLellan	Box 7, Parker Road, Nanoose Bay, British Columbia, Canada
Joan Hansen	853 Springvale Road, Mulgrave 3170, Victoria, Australia
Dick Adamson	8969 Nightingale, Fountain Valley, Cal 92708, Orange Co., USA
Knut Sjonneson	Olaf Schous vei 14, Oslo 5, Norway
Ivan Salesen	PO Box 23, Big Bend, Swaziland
Hiroshi Yamada	856 Nishishimojo Kofu 400, Japan
Paul & Dit	Essenburgstraat 125a, 3022MH Rotterdam, Holland
Otto Frei	Hauptstr 4, 6909 Rauenberg, West Germany
Jean Schook	49 Rue Prince Henry, Helmsange/Walferdange, Luxembourg
Bill McBride	PO Box 4, Postal Station 'C', Winnipeg, Manitoba, R3M3S3, Canada
Rolly	PO Box 223, Carrington, Western Australia
Paulo	Box 53, 61420 Trbovlje, Yugoslavia
Stefano	Box 10, Montevarchi (Arezzo), 52025 Italy
David Beattie	14 Joan Mount Gardens, Belfast BT14 6NX, N. Ireland
Alan Alderman	PO Box 564, Goulburn, New South Wales 2580, Australia
Siegfried Sofke	Meller Strasse 14b, 4503 Dissen am Teutob. Wald, West Germany
Ron & Mary White	PO Box 4221, Fremont, Cal 94538, USA
N J & M K Topp	Box 899, Gisbourne, New Zealand 16349
Phillipe	PO Box 31, 8460 Koksyde, Belgium
Brian Osborne	PO Box 528, Devonport, Tasmania 7310
Reggie	Box 2295, Paramaribo, Suriname
Wilhelm Johannes	Sekip L-4, Yogyakarta, Indonesia
Giovanni	Box 13, Campino Airport, Rome 00040, Italy
Ronnie Parker	33 East Oakland Avenue, Pleasantville, N.J. 08232, USA
Hugo	PO Box 8056, 90.000 Porto Alegre RS, Brazil
Steven Barratt	3 Mooreville Road, Burnie, Tasmania 7320
Terrence Howes	13 Baberton Street, Tokoroa, New Zealand
Rinus	PO Box 3178, Rotterdam 3003AD, Holland
Rick Young	Box 583, Warton, Ontario, Canada N0H2T0
Henk van den Brink	PO Box 6794, 6503GG Nijmegen, Netherlands

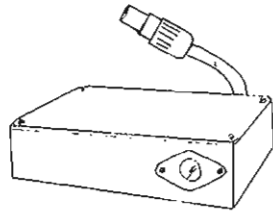




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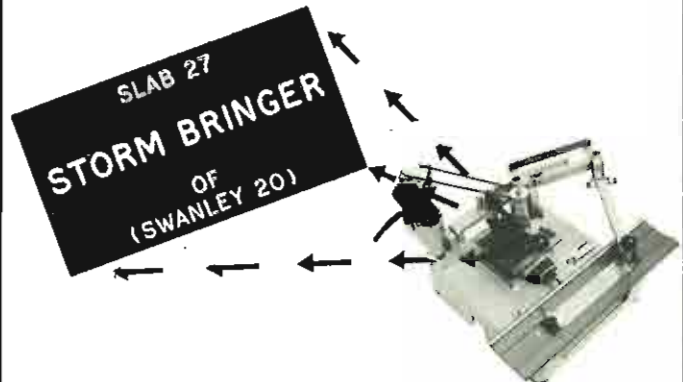


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 A LINK HOUSE PUBLICATION

# Yamming the airwaves

## -WHEEL SPEAK AGAIN

You've probably seen radios on motor cycles before. We've looked at CB on bikes on several occasions. Then there are the bike messengers who buzz around the centre of most big cities and, of course, the police motorcyclists. But this is a story of bikes and radios with a difference — one; because you couldn't ride this bike on the road and two; because the bike isn't fitted with a radio anyway. Confused? Well read on.

It all starts with Ian Huntly and a friend, Doug Randall. Like a lot of people up and down the country they bought rigs as soon as they could, which at the time meant using the old AM system. So on the same day Doug and Ian bought identical sets and learnt the ins and outs of the system, and later they moved up to some very naughty sideband sets (not that they use them now — Ian is the leading light of TWINS, an FM CB club).

Like a lot of breakers, they soon recognised the value of CB used in conjunction with other pursuits and that's where the bike comes in. Doug races motorcycles, and for a privateer among the big teams he does quite well, which is no bad thing as he's got £8500 of motorcycle to support. For the technically minded it's a TZ Yamaha 500 H, and for the rest of us that means it's very fast. On the Isle of Man in 1980 Doug was timed at 159 mph on the straights and averaged 110 mph around the 37¾-mile circuit.

You may not have thought about it, but CB and racing motorcycles make good partners. On a big road course like the Isle of Man, the pit crew is out of touch with their rider for 90 per cent of the time, and on the far side of the circuit it could be raining while the pits are dry. The answer is to use CB, not between the pits and the rider, but between the pits and a few look-outs dotted around the course in strategic places, who can either signal the bike in the normal way, or report back to the pits, who pass on the message to the rider. American teams at Le Mans have been using a similar system for the past few years because it's cheap and flexible.

Ian and Doug found it was the perfect answer to their problems. Around the track on the Isle of Man they found others on channel, so they found they could make friends as well as order urgent spares and check on Doug's progress. There are no plans for fitting a set to the bike as yet, because when you're doing over 130 mph you've got your hands full. And in any event the Yamaha doesn't have a battery.

Doug has been quite successful with his bike and his seventh place in 1980 made him one of the highest positioned private entries in the TT, which is even more praiseworthy when you realise his only back up is Ian and his brother Jeff. Most of the costs are paid out of their pockets, but they are open to sponsorship offers and were contracted to the Cat's Whiskers CB shop for an experimental period at the end of 1981.

The 1981 season wasn't as successful as previous years because of an accident which kept Doug out of some of the major races. Still, he got back in time for one of the last races of the season, the Race of Stars at Darley Moor near Derby, and got in the placings. Doug and Ian are hoping for great things in the 1982 season, especially on the TT circuit, so if you'd like your name on their bike ring Ian on Reading 65748 and he'll sort something out.

The use of CB with motorcycles is just one of many possible sporting applications. At the moment the Auto Cycle Union, which governs motorcycle racing in this country, has no rules governing the use of CB at its meetings, but this is to be reviewed in the near future. If officially sanctioned, it would mean the use of CB at motorcycle racing meetings could increase dramatically as the system has so many benefits.

The uses for motorcycling can be carried over to other motor sports where driver and support team may be out of contact at vital times. The RAC, which looks after rallying in Britain, has said that competitors can use legal CB on rallies over special stages. This is helped by the fact that local people on some events monitor channel nine, and so can come to the aid of a stricken car faster than the organisers. The RAC has banned its use on road rallies, however, because it could be used to give some competitors an unfair advantage. If a support vehicle were to travel ahead of the cars and report back which of the control points were manned and which were not, it could give a team enough of an advantage to win the race. You'd need a bloody fast support vehicle too.

The RAC say they see little advantage to the organisers in using CB. The type of information that the organisers send to each other, who's crashed, how badly, who's in the lead and so on, is not the sort of thing that they want to be generally known. In any event, most organisers now have their own radio link, and so

would not have to rely on CB. But if you were on channel near the RAC rally, you'll know a lot of the marshalls are using it.

For Doug and Ian, and many other amateur riders and drivers around the country, CB could prove to be the cheap link that makes all the difference to a race meet. It would be quite easy to rig up a set on a car or bike with a voice operated mike, so it can be used at any time and not interfere with the driving, but still leave the car or bike in contact with the pits at all times. If you're into racing, that could be worth looking into. And it's not expensive.

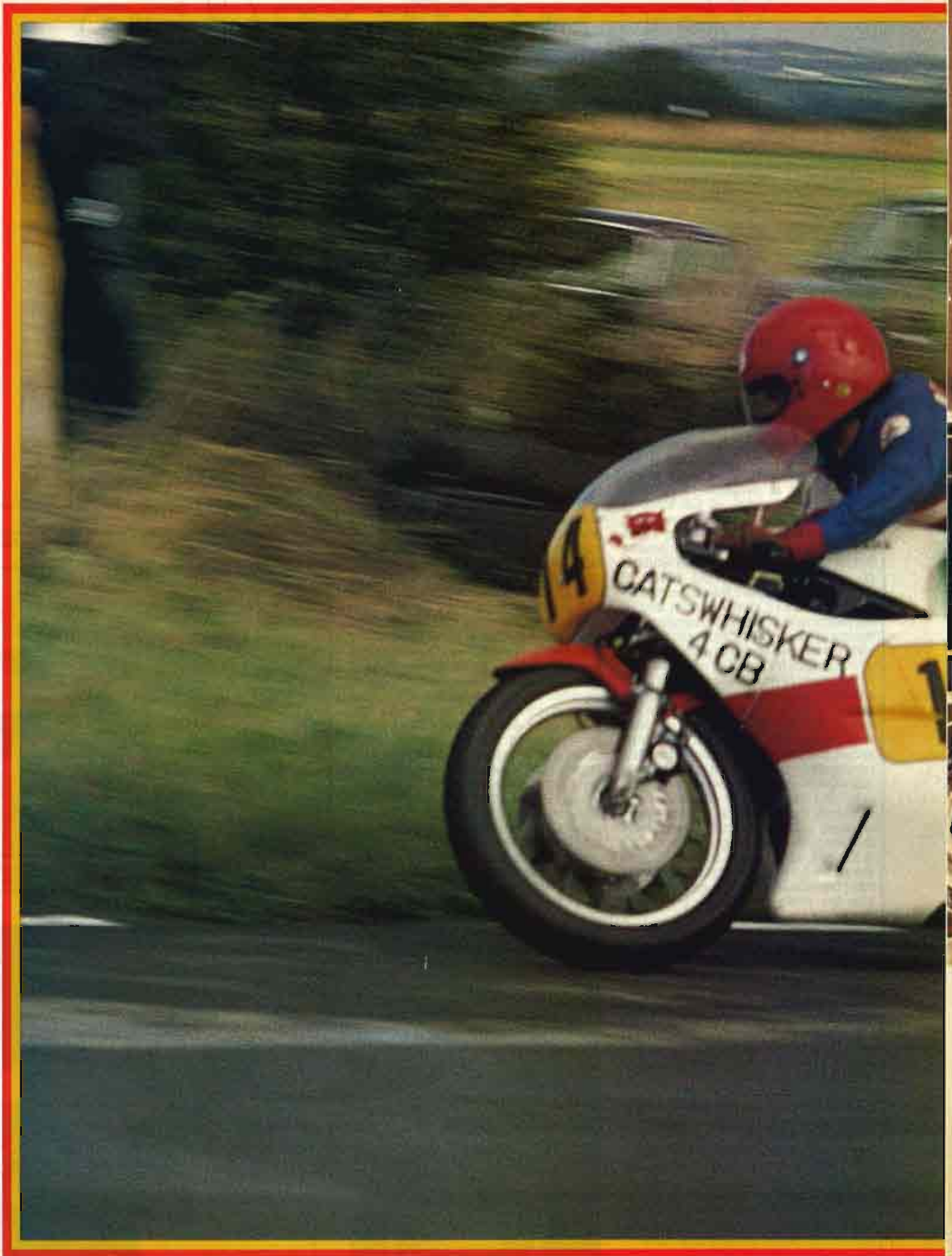
There's one last advantage of CB and bikes, although this one isn't any way connected to winning races. Because Ian is involved in a CB club, Doug took his bike along so members of the junior section could have a closer look. It may not have won him any cups but it will certainly have won him a few friends.

Ian Huntly (left) and Doug Randall pictured with the beast itself — the 160 MPH Yamaha 500 H. Doug does the racing while Ian and Doug's brother Jeff form the pit crew.

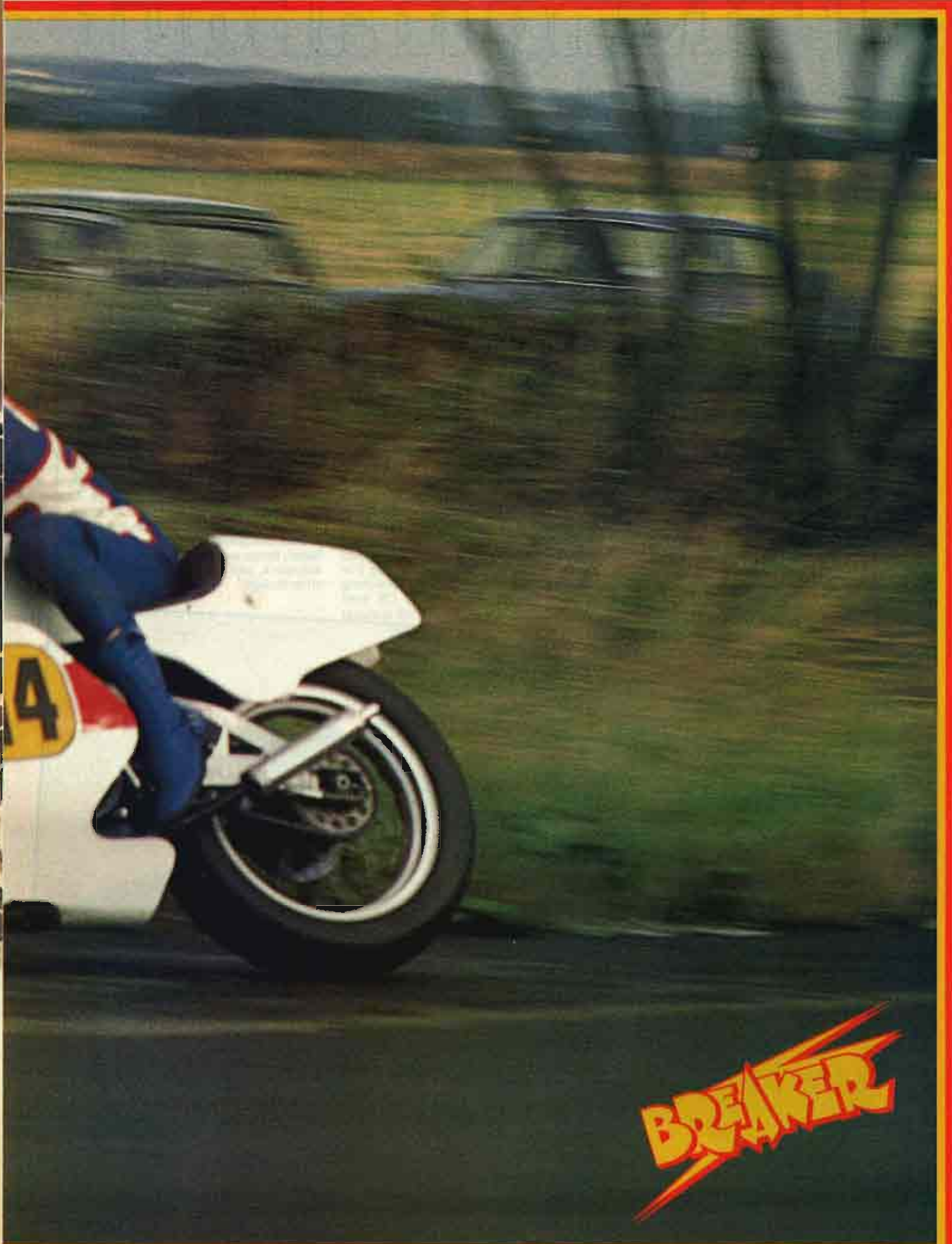


Below: Doug in action, seen here at the Race of Stars, Darley Moor at the end of the 1981 season. The bike was sponsored by a local CB shop as an experiment, but they are now looking for sponsors for 1982, so if you're interested...









**BREAKER**

# Putting it about buyers' guide to extension speakers

How many of you bought a rig and antenna and then thought, 'that's it', I'll never have to spend anymore on that? Wrong. Like any interest, once you've brought the basic stuff (or even not so basic) you just have to go out and buy more bits and pieces for it. Come on, admit it, how many of you've got furry dice in the car or one of those wonderful cleaning arms that don't clean on your hi-fi?

It's just the same with CB. There're lots of gadgets you can buy, some of which will help and some of which won't. Last month we covered power mikes, and this month we turn our hyper-analytical eyes to extension speakers. The thing about CB is that most sets have speakers mounted inside the actual casing, usually on the bottom. And as most CB's are mounted under or in the dash, you can see that most of the sound is going into the floor or being muffled by the dash, so a large helping of the sound disappears around the area of those awful striped socks you got for Christmas.

The answer is to use an extension speaker, which not only brings the sound out to where you can hear it, but can also include filters to give even better sound quality. In some circumstances you can deflect the sound out of the rig, if it's mounted under dash or used as a home base. For more details, see the DIY scoop elsewhere in this issue, but even after applying the combined might of our brain power and your expertise, a mobile set still has to be turned up fairly high. An extension speaker is the answer.

Most speakers will easily plug into the rear of the set (not portables) using a 3.5 mm mono jack plug. The speaker is usually between four to eight ohms, but it's a good idea to check the manufacturers specifications for speaker impedance (look in the electrical specifications under 'receiver', sub-headed 'audio output power'). And as in all good consumer guides, we have to say if in doubt consult a good CB shop. One thing to note though, the Tenvox CB from Voxon doesn't have an internal speaker

at all, it comes with an external one as standard.

There are a variety of speakers available. They should all come with a mounting bracket and cable, but not all have a jack plug fitted. Check before you leave the shop that one is supplied though, as there's nothing worse than having to go back later to buy one — especially with the price of petrol nowadays. We have a look at the fitting a bit later.

All the speakers we tested were installed in a car and run just as you would use them — this seemed the best way to show how they stood up to everyday CB life — and our findings are listed with a pic of each set. Finally, a couple of points. All the prices mentioned are less VAT, but in any event the retail price varies from area to area. Secondly, although suppliers are listed, these are where we obtained the speakers, and some are available from other outlets.

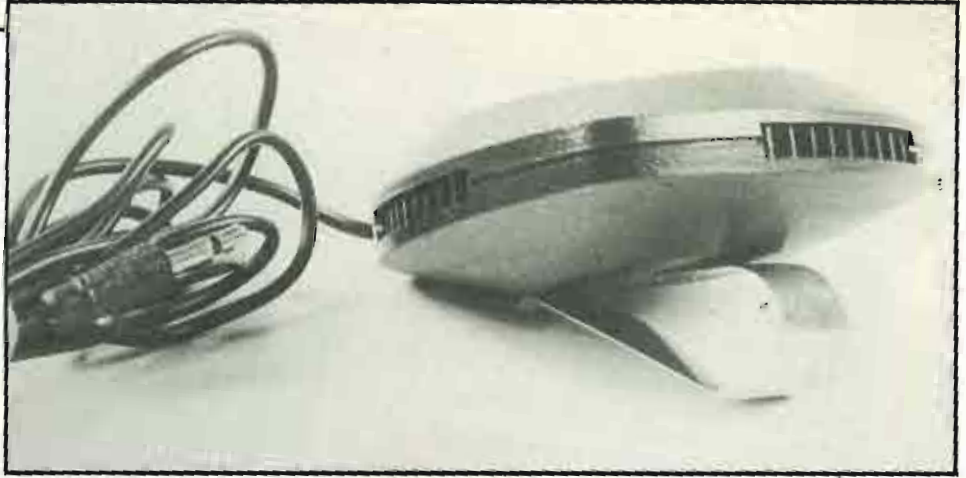


Calrad visor speaker

### Calrad visor speaker

Although the sound quality was a little tinny, this compact speaker was not at all bad considering the price. Whereas the Superex speaker fitted to the underside of the visor, the Calrad can be tucked on the top side and heard quite clearly.

**Max input:** 2 Watts  
**Impedance:** 8 Ohms  
**Dimensions:** 3" triangular x 1" deep  
**3.5mm plug:** Fitted  
**Method of securing:** Fitted visor clip  
**Country of manufacture:** Hong Kong  
**Supplier:** Ten Four, Surbiton  
**RRP:** £3.00



### MS-40-CB

Also a noise-cancelling speaker, with similar characteristics to the Funk Master but has the switch on the front. Not quite as decorative, but just as functional.

**Max input:** 5 Watts  
**Impedance:** 8 Ohms  
**Dimensions:** 6¾" x 4¾" x 2¼"  
**3.5mm plug:** Fitted  
**Method of securing:** Screw-on bracket  
**Country of manufacture:** Japan  
**Supplier:** The Rabbit Hutch, Kingston upon Thames  
**RRP:** £8.65

### Realistic — 21-549

The name of Tandy is well known worldwide and they have a reputation to maintain, so it was not surprising that the speaker received was of good quality. Not too flashy, but not an eyesore either.

**Max input:** 5 Watts  
**Impedance:** 8 Ohms  
**Dimensions:** 4¼" x 4½" x 2½"  
**3.5mm plug:** Fitted  
**Method of securing:** Screw-on bracket  
**Country of manufacture:** Taiwan  
**Supplier:** Tandy  
**RP:** £7.78



Realistic 21-549

### Kraco Ball Speaker — CBS 140

A rather attractive adjustable speaker with a screw fitting base bracket. Sound once again was fairly high pitch which would be murder if you are suffering from a hangover or headache, but a good buy for the price.

**Max input:** 5 Watts  
**Impedance:** 8 Ohms  
**Dimensions:** 3½" ball  
**3.5mm plug:** Fitted  
**Method of securing:** Screw-on bracket  
**Country of manufacture:** Japan  
**Supplier:** Shellpost  
**RRP:** £8.00



MS-40-CB

### Monacor CBES — 1

A thin square speaker with a chrome front. Nothing spectacular but functional with fair audio quality though the finish is not particularly good.

**Max input:** 5 Watts  
**Impedance:** 8 Ohms  
**Dimensions:** 4¾" x 4¾" x 1½"  
**3.5mm plug:** Fitted  
**Method of securing:** Screw-on bracket  
**Country of manufacture:** Unknown  
**Supplier:** Haces, Twickenham, Middx  
**RRP:** £8.00



Monacor CBES-1

TAL CS100

### TAL — CS100

This is the only sample tested in this article manufactured in the UK and besides being compact is one of the better quality units available both in finish and audio clarity. It tends to produce a fairly high tone due to the small type speaker used.

**Max input:** 3 Watts

**Impedance:** 4-6 Ohms

**Dimensions:** 2 3/4" x 2 3/4" x 1 1/4"

**3.5mm plug:** Not supplied

**Method of securing:** Screw-on bracket

**Country of manufacture:** UK

**Supplier:** Telecommunications Accessories Ltd., Thame, Oxon

**RRP:** £12.00

### Realistic Minimus 7 — 40-2034

This is THE speaker for the CB'er who has everything. Actually designed as a hi-fi speaker, it has a sound quality which is excellent and is available in black or silver. The price does not include cable, plug or mounting brackets (brackets cost £8.95 vat inc. — part no. 40-2031).

**Max input:** 40 Watts

**Impedance:** 8 Ohms

**Dimensions:** 7 1/16" x 4 7/16" x 4 5/16"

**3.5mm plug:** Not supplied

**Method of securing:** Screw-on bracket (not supplied)

**Country of manufacture:** Japan

**Supplier:** Tandy

**RRP:** £26.04



### Superex visor speaker

A very neat twin speaker unit which clips onto the visor, so the sound can be easily heard. A very practical and well-made speaker.

**Max input:** 3 Watts

**Impedance:** 8 Ohms

**Dimensions:** 5 1/2" x 3" x 1 1/4"

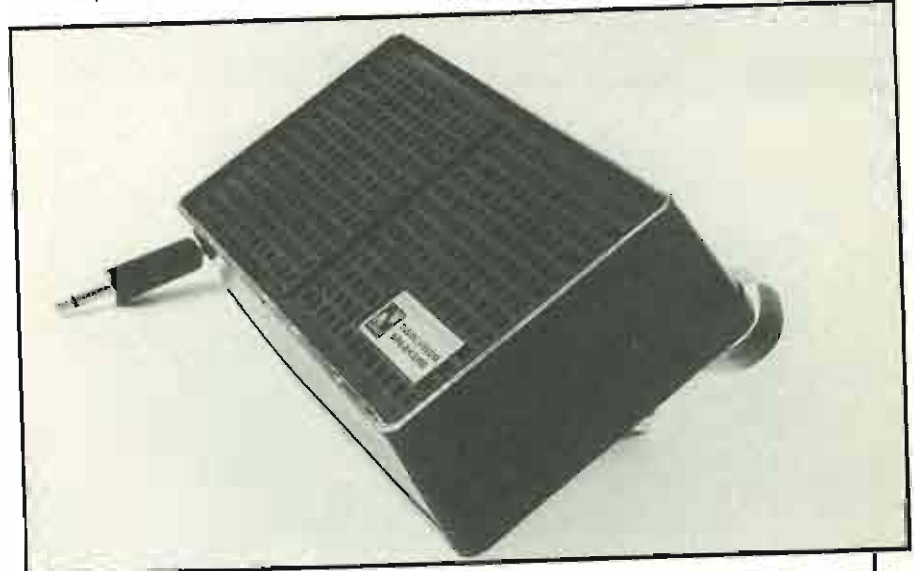
**3.5mm plug:** Fitted

**Method of securing:** Fitted visor clips

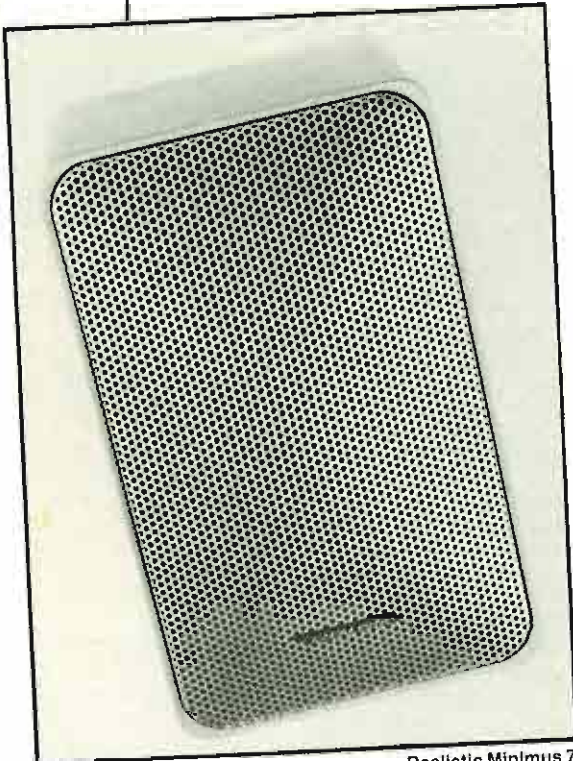
**Country of manufacture:** USA

**Supplier:** The Rabbit Hutch

**RRP:** £10.39



Superex visor speaker



Realistic Minimus 7

### KHi-1

The quality was found to be surprisingly good on this little speaker both in finish and sound and because it's so compact is easily sited.

**Max input:** 4 Watts

**Impedance:** 4 Ohms

**Dimensions:** 2 1/4" dia. x 2" deep

**3.5mm plug:** Not supplied

**Method of securing:** Screw-on bracket

**Country of manufacture:** W Germany

**Supplier:** Himmelreich — W Germany

**RRP:** £12.00



KHi-1

BREAKER

**SEUCS — 1B**

A copy of the KHI-1 and, we're afraid to say, a rather poor imitation. The sound quality was little more than a muffled background noise and when the volume was turned up, the sound distorted and we can only assume (or hope) that the sample we tested was faulty to start with.

- Max input:** 4 Watts
- Impedance:** 4 Ohms
- Dimensions:** 2 1/4" dia. x 2" deep
- 3.5mm plug:** Fitted
- Method of securing:** Screw-on bracket
- Country of manufacture:** Japan
- Suppliers:** Various
- RRP:** £9.00

**Funk-Master 21-404**

This noise-cancelling speaker is also sold under the Midland brand name and has a switch on the top which reduces the background noise. It was found to be ineffectual when used with a CB set which had a tone control, but was effective when used with the basic sets.

- Max input:** 6 Watts
- Impedance:** 8 Ohms
- Dimensions:** 3 3/4" x 3 3/4" x 3"
- 3.5mm plug:** Fitted
- Method of securing:** Screw-on bracket
- Country of manufacture:** Japan
- Supplier:** Haces
- RRP:** £10.87



**Cone Speaker**

No country of origin could be found on this unit, though we don't think we would be far wrong in stating that it was of Far Eastern manufacture. The base of the speaker is secured to the desired location by means of double sided tape which is supplied. Sound was a bit 'tinny' but this is to be expected on a speaker of this size and price.

- Max input:** 3 Watts
- Impedance:** 8 Ohms
- Dimensions:** 2 3/4" dia. x 3" deep
- 3.5mm plug:** Fitted
- Method of securing:** Stick-on
- Country of manufacture:** Unknown
- Supplier:** Shellpost, Bury, Manchester
- RRP:** £8.00



Seucs 1B

Cone speaker

**Auto Concert CB 30**

A sturdy little number in black chiffon, sorry, in black plastic. The sound quality isn't too bad and, once again, it is a functional unit that wouldn't disgrace.

- Max input:** 8 Watts
- Impedance:** 4 Ohms
- Dimensions:** 4 1/4" x 4 1/4" x 2 1/4"
- 3.5mm plug:** Fitted
- Method of securing:** Screw-on bracket
- Country of manufacture:** Japan
- Supplier:** Ten-Four, Surbiton
- RRP:** £8.00

As we've said, jack plugs are not always supplied, so you will have to buy and fit your own, although these are readily available from CB stores.

Providing you can use a soldering iron, fitting the plug is not too difficult. The wire connections are identified by colour coding and the one with the stripe (black and white stripe, grey with black stripe or — very occasionally — just plain red) is soldered to the centre connection on the plug and the plain (black, grey or blue) wire is soldered to the outer connection on the plug.

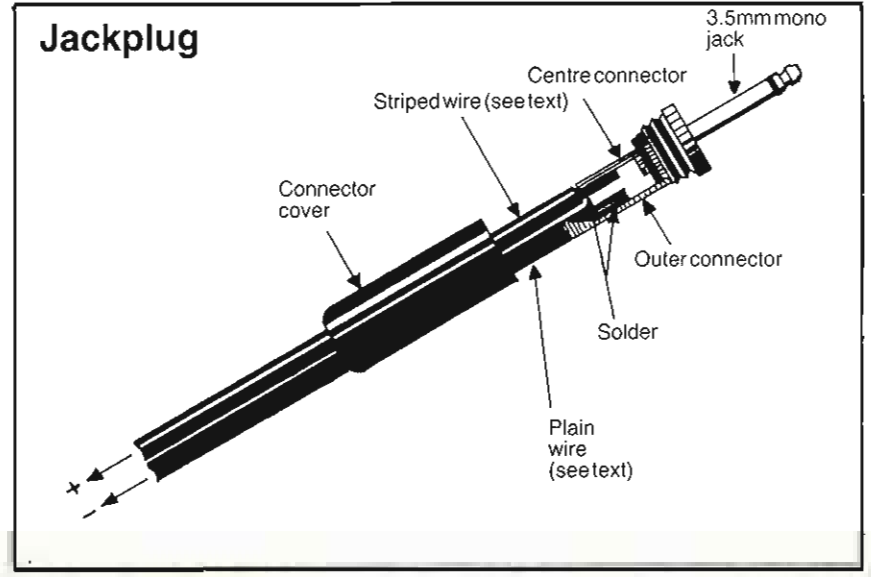
If the colour codings differ to those

described — just your luck, huh? — you'll have to open the back of the speaker and check the colour coding on the + side. That is the wire that should be connected to the centre pin of the plug.

Make sure that the connectors are not touching when you've finished the soldering and, just to be on the safe side, put a small piece of insulation material between the two solder joints to prevent them shorting out. If you're still unsure, compare the plug and cable with our illustration. There, it's all become clear now, hasn't it?



Auto Concert

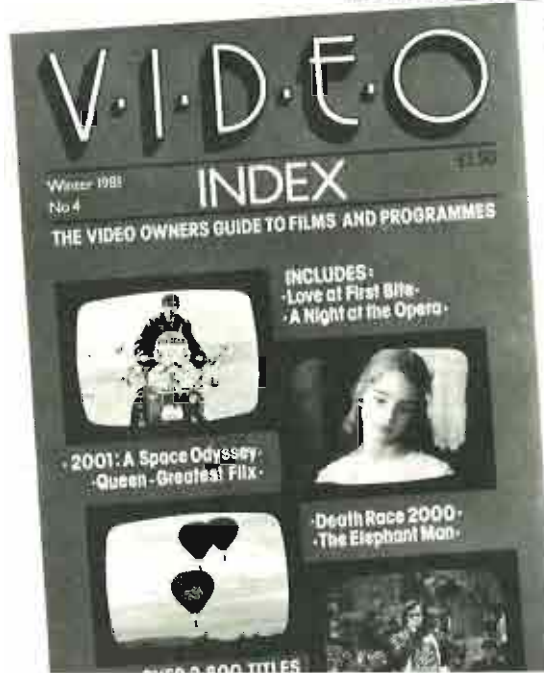


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# SCOOP STORY!

## DIY sound deflector

As we've said, the problem with standard built-in speakers is that they are mounted on the bottom of the set, so all the sound is pushed out somewhere around your feet. And if you're built anything like us — with ears at the opposite end of the anatomy — that's not very useful.

One solution is to fit an extension speaker, and we've just looked at them in some detail, but there is an alternative, which will cost you next to nothing and is a damn sight easier to get together than most of the projects on Blue Peter. We'll be exploring exciting new applications for Fairy Liquid bottles next month, incidentally.

Call it a speaker deflector, call it a sound scoop, call it a bent piece of cardboard covered in Fablon . . . we really don't mind. But like all the best ideas, it's very simple and until someone rips off the idea and starts producing them, you've got to make it yourself, so we'll get down to the practical bit.

The sound scoop is simply a square piece of stiff card — you could use ally if you want to be flash but card works perfectly well — with flaps which are bent to form a scoop. Just like they used to stick on the bonnets of go-faster Ford Anglias, but smaller. Attached to the bottom of the rig, straddling the speaker grill, it simply deflects the sound out where you can hear it. And if you're using

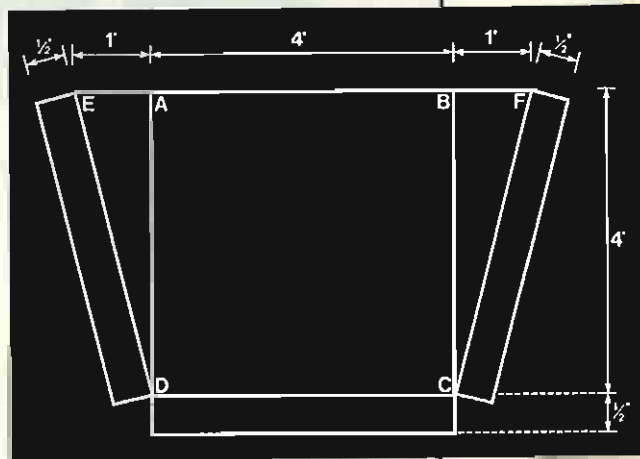
a mobile rig at home, it sits on the scoop with the controls at a useful angle and the speaker still operational. The days of propping the front up with fag packets are over, friends.

The dimensions given in the diagram, not drawn to size, should suit most sets but, of course, they can be varied to meet your needs. Use fairly stiff card — we used the back of a foolscap pad — and lightly score along the lines before folding. Fold up the small flaps first (along lines E-D and F-C) and then fold down along lines A-D and B-C.

We stuck the scoop to the underside of the set with double-sided sticky tape, which holds it firmly without damaging the case. You might find that there are small gaps at points D and C but these can be easily covered over with sticky tape. As we said, we covered ours with Fablon, which is very cheap and finishes it off a treat. If you're doing the same, we recommend covering it before folding.

So that's about it. What more can we say? Our thanks to The Ridgeback for knocking together the racy prototype. Now you can run away and make one for yourselves. Incidentally, a Stanley knife or scalpel is best for cutting it out, but if you're worried about cutting yourself, ask an adult to do it for you.

**Next month: How to insulate your loft with copies of CB World.**



# Which CB? —the rig guide



they can very simply and effectively be used at home too. We went over this last month, and we don't want to labour the point too much, but they are much cheaper than most purpose-built base stations and in the case of the up-market, well-appointed mobiles, the only real difference is the power source and the actual casing. You might find a mobile set is actually more convenient for your home, if you're short of space, and the power supply can be obtained from a small power unit, which will cost around £10-£15. There are one or two functions found in base stations which are rare in mobile — built-in SWR meters, for example — and if you think they are worth the extra money, that is your choice. And if you're feeling a bit flush, can I borrow a fiver?

Did you get that trickolux rig you wanted for Christmas? No, thought not. Maybe Scrooge was right — have you noticed how notes to Santa only work if you ask for handkerchiefs, socks or soap? Looks like you'll just have to buy one, doesn't it? Just as well we've got Which CB? We understand, you see. We know how mean your family is. We must be related.

The market is beginning to expand now and more of the rigs announced by the companies, and included in the guide, are finally becoming available. Still not all of them, which is a bummer if the one you want still isn't on sale yet, but most of the companies are expecting at least their first delivery within the next month or so.

All these rigs mean a lot more choice, of course, which makes the market much more interesting but is a right pain in the arse when you have to pick one. Unless you're one of the idle rich — which is unlikely because most of them are working here — you can't afford to throw away £100 or so. The answer is to consider your choice carefully. Seems obvious but it's easier said than done. Which CB? helps. There are about 60 odd rigs in the guide now and most shops have a range of five or six at the most. But how do you select your buy?

There are four main factors: Price, type (handset, mobile or base station), appointments (number of functions etc) and performance. Once you've decided what you want from each area, you just find a rig that fulfils your requirements by looking through Which CB?

First consideration must be price. If you've got £70, there's no way you can buy a base station. If you've got £300, you can afford to buy four mobiles. So having decided your budget, you can decide what kind of set you want; handset, mobile or homebase.

Handsets are obviously versatile because they have their own power source but they can be restrictive when you start straying into areas covered by the other two types. Using a handset while you're driving is not advisable, particularly if you live near me, and since they usually have a limited power output (about half a watt), it's not really practical to use them indoors. Plus you look like Action Man on leave. They are very popular among kids but they have other practical uses in outdoor pursuits — like hiking and mountaineering — and organising outdoor events such as race meetings and rallies.

Mobile rigs are, not surprisingly, the most popular and don't really need any further comment — except to say that

BRAND NAME	COMPANY NAME AND ADDRESS	MODEL	TYPE OF SET	NO OF CHANNELS	SQUELCH	VARIABLE RF GAIN	MIC GAIN	DELTA TUNE	SWR
AMSTRAD	1-7 GARMAN ROAD, LONDON N17	900	M	40	●	●			
		901	M	40	●	●			
BARRACUDA	ALL HALFORD STORES	GT868	M	40	●	●	●		
		HB940	M	40	●	●	●	●	●
BINATONE	BERESFORD AVENUE, WEMBLEY, MIDDX	Longranger	H	1/2	●				
		Speedway	M	40	●				
		Route 66	M	40	●				
		5 Star	M	40	●	●	●	●	●
		Powerbase	B	40	●	●		●	●
		Breaker phone	M	40	●		●		
COLT	SHELL POST LTD, 183 THE ROCK, BURY, LANCS	295	M	40	●				
COMMTRON	ADS LTD, 239 DICKSON RD, BLACKPOOL, LANCS	Nato	M	40	●	●			
CYBERNET	GOODMANS LOUDSPEAKERS LTD, DOWNLEY ROAD HAVANT, HANTS	Beta 1000	M	40	●				
		Beta 2000	M	40	●	●			●
		Beta 3000	M	40	●	●			
DNT	RADIOTECHNICS LTD, GROVE VIEW, BEL ROYAL ST LAWRENCE, JERSEY	HF-12/13	H	3	●				
		HF-13/40	H	40	●				
		M40	M	40	●				
		B40	B	40	●				
FIDELITY	VICTORIA ROAD, N. ACTON, LONDON	1000	M	40	●				
		2000	M	40	●	●	●		●
GRANDSTAND	ADAM IMPORTS, LIVESEY ST. SHEFFIELD	Interceptor	H	2	●				
		Communicator	H	40	●				
		Buzzing Bee	M	40	●	●			
		Hawk	M	40	●	●		●	
		Bluebird	M	40	●				
		Gemini	M	40	●	●			
		Base Station	B	40	●	●			●
HAM INTERNATIONAL	25 BUCKLAND ROAD, LEICESTER	Explorer	M	40	●				
		Mariner	M	40	●	●			
		Hercules	B	40	●	●	●		
HARRIER	ALL DIXONS STORES	WT1	H	2	●				
		WT2	H	40	●				
		CB	M	40	●				
		CBX	M	40	●	●	●	●	●
		HQ	B	40	●	●		●	





CH	TONE		AUTO NOISE FILTER	SWR METER	INDICATOR LIGHTS		METER		MIKE	SWR SAFETY CUT-OUT	DISTANT-LOCAL	STANDBY	CH9 SWITCH	HEADPHONE SOCKET	DIMMER	AUTO SQUELCH	ATTENUATOR	PRICE (Approx £)	OTHER FEATURES
	VARIABLE	P.A.			ROGER BEEP	NB	ANL	P.A.											
•									•									79	LED SIGNAL STRENGTH
•	•	•			•	•			•									95	LED SIGNAL STRENGTH
•			•						•									70	
•									•									90	
									•									80	
									•									70	
									•									70	
									•									100	INT/EXT SPEAKER
									•									100	
									•									110	CHANNEL SCAN
									•									85	
									•									130	80 CH AM FACILITY
									•									N/A	
									•									N/A	
									•									N/A	
									•									42	
									•									71	AVAILABLE 1982
									•									85	
									•									95	
									•									60	
									•									80	
									•									29	
									•									69	
									•									75	
									•									86	
									•									102	
									•									141	LED DISPLAY
									•									287	
									•									75	
									•									110	
									•									165	
									•									25	
									•									65	
									•									80	
									•									110	
									•									150	



We're testing sets like fury, but there are a lot to get through. We're featuring test reports in Breaker each month — concentrating for the time being on some of the most available mobiles — and we're working on a series of comparison tests. In between sucking eggs, my grandmother always used to say that recommendation is the best form of advertising, so if you know people already involved in CB, ask them what they think of their sets. And if you can get on the air and reach even more people, even better.

Actually trying the set is important — no-one buys a car without a test drive — so if the shop hasn't got a working model for you to play around with (surely most of them should make the effort — it's not too difficult to arrange, is it?), try and find someone with the specific model you're interested in. If they don't mention it, ask about after sales service and try to get something in writing — shouldn't have any trouble with your rig, but then you shouldn't have any trouble with any new product and my dad bought this new Austin Allegro and . . .

So, having chosen the type you want, you're back to cost again. The price of all types vary with the appointments, which ties in the third area of consideration.

Generally, it's a matter of you get what you pay for — but there are exceptions, so compare the sets available because some are simply better value. Price, type and functions can be compared at-a-glance on our guide but performance is a bit tricky.

We've been asked hundreds of times, 'Which is the best rig to buy' but it is impossible to answer without finding out what is required of the set — everyone's needs vary — so maybe these few words, plus Which CB?, which we will continue to update and include every month, will help. If you need more information on any area of CB, drop a line to our free information service, Citizens Advice at Breaker, Link House, Dingwall Avenue, Croydon. If that doesn't help, try a psychic.



**Which CB?  
—the rig guide**

BRAND NAME	COMPANY NAME AND ADDRESS	MODEL	TYPE OF SET	NO OF CHANNELS	SQUELCH	VARIABLE RF GAIN	MIC GAIN	DELTA TUNE	SWR
INTERCEPTOR	CHELSEA CB CENTRE, 73-77 BRITANNIA RD, FULHAM, LONDON	Interceptor	M	40	●	●			
		TC400	M	40	●	●	●		
		Remote	M	40	●	●			
		HB600	B	40	●	●	●		
JOHNSON	STAR WAREHOUSE, CAMDEN GOODS DEPOT, CHALK FARM RD, LONDON	Johnson	M	40	●	●			
LAKE	ADS LTD, 239 DICKSON RD, BLACKPOOL, LANCS	Manxman 850	M	40	●				
		Manxman 950	M	40	●	●			
LCL	LCL IMPORTS, 101 DIXONS GREEN, DUDLEY, WEST MIDLANDS	2740	M	40	●				
MAJOR	UNIT 2, STATION YARD, WILBRAHAM RD, FULBORN, CAMBS.	2000	M	40	●				
		3000	M	40	●	●		●	●
		4000	B	40	●	●		●	
		5000	M	40	●	●		●	●
MIDLAND	PLUSTRONIX LTD, HEMPSTALLS LANE, NEWCASTLE UNDER LYME, STAFFORDSHIRE	Handset	H	3					
		2001	M	40	●				
		3001	M	40	●	●			
		4001	M	40	●	●	●		
RADIOMOBILE	GOODWOOD WORKS, NORTH CIRCULAR ROAD, LONDON NW2 7JS	201	M	40	●				
		202	M	40	●	●			
RANGER	MODUX, 29a EASTCHEAP, LETCHWORTH, HERTS	PE Ranger	P	2-6	●				
REALISTIC	ALL TANDY STORES	TRC 1001	H	40	●				
		TRC 2000	M	40	●	●	●		
		TRC 2001	M	40	●				
		TRC 2002	M	40	●				
REFTEC	NORTH HERTS CB, 8 MELBOURNE ST, ROYSTON, HERTS	934	M	20	●				
ROTEL	2-4 ERICA RD, STACY BUSHES, MILTON KEYNES, BUCKS	RVC 220	M	40	●				
		RVC 230	M	40	●	●		●	
		RVC 240	M	40	●	●	●	●	●
S & M	QUEEN STREET, HAVERHILL, SUFFOLK	Anglia	M	40	●	●	●		
SIRTEL	24 ALFRIC SQUARE, WOODSTON INDUSTRIAL ESTATE, PETERBOROUGH	Searcher	M	40	●				
TENVOX	VOXON AUDIO, NUFFIELD WAY, ABINGDON, OXFORDSHIRE		M	40	●				
TRANSCOM	1-12 MARKET STREET, BRACKNELL	CBX 2000	M	40	●				
		CBX 4000	M	40	●	●			
WR ELECTROTEK	33 GROVE STREET, WANTAGE, OXON		M	40	●				
YORK	FROM BOOTS AND WOOLWORTHS	861	M	40	●			●	
		863	M	40	●	●	●	●	●



TONE	INDICATOR LIGHTS		METER	MIKE	PRICE (Approx. £)	OTHER FEATURES													
	SWR METER	POWER																	
WHICH VARIABLE P.A.	ROGER BEEP	NB	ANL	AUTO NOISE FILTER	P.A.	R.X.	T.X.	SIGNAL	POWER	FRONT	SIDE	SWR SAFETY CUT-OUT	DISTANT-LOCAL	STANDBY	CH9 PRIORITY	HEADPHONE SOCKET	DIMMER	AUTO SQUELCH	ATTENUATOR
					80														
					95														
					125														
					180														
					44														
					87														
					95														
					N/A	CHANNEL FREE LIGHT													
					68														
					76														
					115														
					84														
					60	BATTERY METER													
					70														
					80														
					90														
					90														
					120														
					70	PORTABLE UNIT													
					120	BATTERY METER													
					100														
					80														
					N/A	AVAILABLE 1982													
					200	934 MHz													
					70														
					80														
					90														
					N/A														
					80														
					96	CHANNEL SCAN													
					70														
					90														
					120														
					70														
					90														



# On the receiving end

Remember those hard torturous years before the legalisation of CB and how everyone was praising the social value of local communication? How it would save lives, and mankind would be richer and more caring? And every newspaper from The Times to the Bumbledown Bugle were carrying stories of people snatched from the jaws of certain death by a man and his rig. It was all true, of course — CB really does save lives. But as the service became more popular, and eventually legalised, what happened to all that coverage? It's a sad fact that when something becomes that widespread, it just isn't news any more. The more it happens, the less the public are interested. Until they themselves are involved in some form of emergency and one of the thousands of volunteer CB monitors comes to their aid.

Over the months we have followed the story of one of these organisations, REACT (Radio Emergency Associated Citizens Teams), and on several occasions we have looked, in some detail, at some of the other groups around. In fact, we are the only CB magazine to have provided that sort of extensive coverage of their work and aims. But there are now thousands of monitors, up and down the country, listening in to the emergency channel 9 waiting for a cry for help, which they can pass on to the relevant authority. We have decided to extend our coverage of their activities to include news from as many groups as we can fit in on a regular basis. So, if you are part of an organisation, whether local or nationwide, send us any news or information you want passed on and we'll do our best to help out. In our opinion, the future success of emergency monitoring in the UK depends on some degree of co-operation between these various groups. Some moves have already been made to that end — perhaps our extended coverage will help still further.

## Farther THAMES

THAMES (Traffic Help And Monitoring Emergency Services) were set up in 1980 by the United Breakers Association but grew so quickly that they soon split off on their own under the leadership of George Mark. He is a kind of human dynamo and seems to be able to work 25 hours a day for THAMES and still hold down a full time job.

We last featured THAMES in Breaker in July of last year when membership was approaching 400 and it is a good measure of their popularity and success that the figure has now rocketed to over 3,500. If you haven't heard of THAMES before, you might think they are a local group operating in London, but although their HQ is south of the river, they are a

nationwide organisation with monitors from Scotland to Cornwall and almost everywhere in between. Like every monitoring group, they are aiming for a blanket 24 hour coverage — they aren't there yet but they are well on their way.

The members are split up into local teams, who work out their own rotas, and they report to county co-ordinators, who in turn report to the national committee. There is no charge for membership and it never ceases to amaze us how generous people can be in donating just about everything. Again, an indication of their

popularity. They have received everything from computers to an offer of a flat to use as their offices, which they have gratefully accepted and it will be opening within a few months. Incredibly they have also been given a number of ambulances — eight to date — and these have caused a certain amount of controversy. We had a couple of panicky phone calls to the office saying that THAMES were planning to launch an ambulance service to operate in competition with the existing official outfit. We didn't think that sounded much like THAMES. George



This THAMES monitoring station boasts home base units, telephone, maps and computer terminal.



THAMES chairman George Mark (Sticks).

thought it sounded like something we can't print here, so we'll just put the record straight and leave it at that.

The ambulances, donated and renovated by the monitors, will be available IF they are needed — at a large-scale emergency where there aren't enough to go round, for example — and they will only be manned by trained ambulance drivers, who are THAMES members. Their paramedico team now consists of 40 ambulance men who are prepared to give up their spare time if THAMES are asked by the authorities to help out. If they are not asked, the ambulances aren't used. They also have a number of medico teams consisting of doctors and nurses. Used to play that myself.

The Rangers are a recent addition to their organisation. They are a team of volunteer despatch riders who again have offered their services in their spare time. This service has proved particularly useful in taking blood to hospitals for transfusions.

THAMES started when FM was a twinkle in a Home Office official's eye, so they were purely AM. This has meant they are now able to provide a full 24 hour coverage in London, for example, but they also welcome FM and this side of their operation is growing rapidly. In the meantime, they can boast over three and a half thousand monitors, some on AM and some on FM, but all providing a vital link between the public and the emergency services at one time or another. THAMES officers are visiting as many CB clubs as possible and George has recruited 16 new members (and an ambulance) in just one evening.

As we've said, a great deal of equipment has been donated, but if you've got a duplicator gathering dust under the bed, they'd love to hear from you. Likewise if you are interested in joining them. Write to

**THAMES**  
18 Shepherds Way  
Monkshill  
Selsdon  
South Croydon  
Surrey

Our very own Mike Newbold, who writes the regular QSL feature, is also REACT UK's county co-ordinator for Surrey. We thought it might be useful to look at one area of their operation in detail, so we'll hand over to him to tell their story.

### Good REACTion

Following legalisation, REACT UK is now in the process of establishing REACT monitoring teams throughout the UK. Unlike some emergency monitoring organisations, who are generally untrained persons monitoring channel 9 when they have a few hours to spare, REACT teams have access to thorough training, and are fully co-ordinated not only by the hours a monitor will cover, but also their operational area.

Based purely on the team concept, REACT UK publishes a magazine which is free to all registered members called the REACTer, which not only gives the news and views of current teams, but acts as a full interchange of information between operational teams.

One of the first fully trained REACT UK teams, which started emergency cover during November, was the Kingston Upon Thames REACT team, whose operational area covers the royal



Left: One of REACT's well-equipped stations.

Below: The Kingston Upon Thames REACT team. Left to right (standing): Mike Newbold, Chris Pearsall, Peter Keel and Paul Manktelow. Left to right (kneeling): Joe Barnett, Val Keel, Karen Pearsall, Keith Williams and Nigel McWade. The spotty one is Roscoe, their team mascot.



borough and surrounding areas. They are closely followed by the Guildford, Sutton and West Drayton teams, giving a well co-ordinated coverage of some hundreds of square miles. This is shortly to be re-inforced by other teams in the surrounding counties, with national 24 hour coverage the ultimate aim.

Following my appointment as the county co-ordinator for Surrey, all members who were existing members of the REACT UK supporters club were contacted, and teams were trained and registered.

The basic team at Kingston upon Thames started with 12 members, whose monitoring coverage was initially 18.00hrs to 01.00hrs every evening. But this has now been extended and new members are now being accepted for emergency monitor training which closely follows the published REACT training programme — with amendments to cover the local operating conditions.

Formed on November 2 1981, the Kingston upon Thames team comprises of Chris Pearsall, chairman and team leader; Keith Williams, vice chairman; Peter Keel, secretary; Karen Pearsall, treasurer; and members Paul Manktelow, Joe Barnett, Val Keel, Nigel McWade, Peter Pye, David Whiteman, and myself. All take a regular weekly shift on monitoring, as well as finding time to sponsor new members and assist with their thorough training schedule.

Realising the need to publicise the monitoring service, all CB clubs within the designated operational area have been visited by members of the team and circulated with a leaflet which details all the facts about the teams and their monitoring hours, and inviting applications from new members. Local CB shops and companies selling CB equipment have also been issued with the leaflets so the information is reaching the

right people — those who own a Citizens Band radio.

The team stresses that it will accept all type of calls which are normally made to the authorities, but emphasises that REACT is not a replacement for the 999 telephone system. It is supplementary to it, for the help and convenience of travelling CBers. Traffic information and traffic directions will be given upon request, but this will be done on another channel following the initial contact on channel 9.

For further information, contact:

**REACT UK**  
executive managing director  
Alasdair Mackay  
142 Lutterworth Road  
Nuneaton  
Warwickshire

Tel: 0203 383005 for all enquiries throughout Great Britain.

For the Surrey and Middlesex area, contact:

**Mike Newbold**  
187 Walton Road  
East Molesey  
Surrey KT8 0DY



## EARS to you

Suffolk EARS started when a local GP gave a talk on first aid to the Eastern Counties Open Channel Club. The doctor in question, Andy Mason, was already involved in the Suffolk Accident Rescue Service which is a group of volunteer doctors who attend road accidents, so he knew how vital it was to get help to road accidents fast.

With the knowledge of the doctor on the one hand and the support of the club on the other, Suffolk Emergency Action Radio Service was born with the creation of a committee. Since then they've formed a number of sub-committees to handle particular areas of EARS work: Base monitors, mobile support, fund raising and equipment. EARS see their system working on two basic ideas, local support for a local service and a high level of training for their monitors. Because of that, no one is allowed to become a monitor until they've undergone a basic first aid course which is run by Andy Mason, although the idea that EARS monitors should be out treating road accidents is not part of EARS thinking. They know that CB monitors are most used in getting the emergency services to the scene of an accident faster than usual, and EARS mobiles are told to keep away from an accident once help has arrived — they could get in the way.



The main job of Suffolk EARS is to watch over the A45 between Cambridge and Felixstowe, which carries some of the heaviest chemical traffic in the country. EARS are quick to point out there are only three public phones between Ipswich and Cambridge, so getting help in the usual way could waste vital minutes. Away from the road, Suffolk is divided into areas with coordinators to control the rotas and collect the report forms which are filled out after every emergency. The group monitor channel nine and 19, and are hoping for 24-hour coverage, but this is something for the future.

The group are now receiving a good deal of local support. Apart from the Eastern Counties club, which is supplying the man-power, the organisation has been recognised by the local police, fire and ambulance services. It's nice to see CB losing the 'cowboy' image it's held for so long. Also a local firm has donated money to EARS so it can buy sets for monitors who cannot afford their own, and to get back up sets for home base monitors in case their own breaks down.

While EARS want their service to be a low-key system helping the emergency services, they would be willing to supply men for larger operations if asked by the

police. They point out that they only offer to help, they never move without being asked by the authorities first. EARS would like to help other groups who want to work on similar lines. If you have a small, local group with a good professional back-up, EARS would be happy to give you the benefit of their experience.

**Suffolk EARS**  
**Mr Mike Braband**  
**c/o Bel-Ray Lubricants**  
**Tomo Industrial Estate**  
**Stowmarket**  
**Suffolk**

## Torbay or not . . .

Big, as we all know, doesn't always have to be beautiful, and it's the same with monitoring groups. You don't have to have a big national organisation to give a good local service, and you could well find you get more support if people feel it's 'their' service.

A case in point is Station Delta Torbay, which started as a voluntary service for breakers organised by other breakers. The idea sprang from one breaker who was an insomniac and realised he could spend his nights listening for breakers in trouble. He asked around and found that there were other people who, for one reason and another, had time free to monitor CB. House wives, for instance, found they could easily monitor during the day, and it was this sort of support that got Delta Torbay off the ground and keeps it running today.

The service started back in February 1981, and they now offer 24-hour coverage around Torbay. Although they have 45 members, 25 or so are on the regular rota, eight members supplying technical help and another 15 or so acting as back-up mobiles when they can spare the time. All regular monitors work from home.

The organisation is kept informal. Originally they formed a committee but they found it didn't work too well and by keeping everything as voluntary as possible, they found people were more willing to help out. A lesson there for other groups to follow, perhaps?

They started purely as an emergency service, and have helped out in a few nasty incidents. One young man tried to

drive along the sea front and unfortunately met an iron bar which was put there to stop cars doing just that, and impaled himself. There are no phones on that stretch of the front, so help could have been a long way away if the man's father hadn't been on channel and called for help through a Delta monitor. In another emergency, a man collapsed suffering from a heart attack and an epileptic fit. Ian Lamble, the husband of Delta's co-ordinator, was driving past and called his wife who was monitoring at the time. Help arrived in time.

Apart from the serious side there is a more mundane aspect to monitoring. Being in a holiday area Torbay is flooded every summer with holiday makers who break down, get lost or want to know places to stay. To help, Delta monitors have lists of garages and 24 break-down services for anyone who's stranded. Every incident is logged and the forms sent to Mrs Lamble who files and orders the information.

The expenses of the service are met through contributions from two local clubs, and to make sure they are getting value for money the Delta people and the clubs get together to answer criticisms and sort out problems. The Delta team also offer their help to other breakers who want to start their own monitoring service. This has been so successful that there are Delta teams in Exmouth, Haldon, Dawlish, Gloucester, Weston-Super-Mare and Taunton, although all of them are independent of Torbay. Torbay is also hopeful of helping to set up new stations in Birmingham and Somerset.

One thing to remember is that Delta Torbay monitor channel 14, not nine, although they use nine for their emergencies. The other thing is that they only monitor on FM. They'll answer a call from anyone, but they have to remain within the law so they can work closely with the emergency services. Other Delta stations may operate differently as they're all independent of each other, but as far as Torbay goes, the law is the law.

**Station Delta Torbay**  
**c/o Mr and Mrs Ian Lamble**  
**78 Berry Drive**  
**Paignton**  
**Devon TQ3 3QW**



Blind breaker Russ Grimley monitoring for Station Delta in Devon.

# Airwaves

**9 Plus 30 Club of Hershham**  
meet Tuesdays at  
The Star  
Hershham  
Surrey

**27 Club**  
Every Monday at  
Saxon Tavern  
Southend Lane  
Catford SE6

**27 FM Club**  
c/o Cosgrove Lodge  
Cosgrove  
Milton Keynes  
Bucks

**A76 CBBC**  
c/o 117 Main Street  
Largs  
Ayrshire  
Scotland

**Aire Valley Breakers Club**  
53 Albert Road  
Sallaire  
Shipley  
West Yorks

**Airwave Breakers**  
Every Monday at  
The Plough  
Bedminter  
Bristol

**All Breakers Club**  
190 Evelyn Street  
London SE8

**Anglia Breakers Club**  
c/o Great White Horse Hotel  
Tavern Street  
Ipswich  
Suffolk

**Apple County Breakers Club**  
PO Box 113  
Taunton  
Somerset

**Appletart Breakers Association**  
c/o 45 Hevers Avenue  
Horley  
Surrey

**Appollo CB Club**  
Pasture Road  
Moreton  
Merseyside

**Aquae Sulis**  
c/o The CB Centre  
Chelsea Road  
Weston  
Bath  
Tel: 0225 333379

**Associated Breaker's Club**  
c/o Dial Electrics  
528 Lever Edge Lane  
Bolton  
Meet Monday nights  
Aquarius Club, Bolton

**Association of Maghull Breakers**  
c/o 69 Vetch Hey  
Netherley  
Liverpool  
Merseyside

**Attic Breakers Club**  
12 Jameson Road  
Bridlington  
East Yorks

**Australian International QSL Swap Club**  
PO Box 855  
Freemantle 6160  
Western Australia

**Avant! Breakers Club**  
c/o Post Office  
Newton of Falkland  
Cupar  
Fife

**Back Road Breakers**  
Alternate Thursdays at  
Liberal Club  
Garstang  
Nr Preston  
Lancs

**Barley Breaker's Club**  
Alternate Wednesdays  
Barley Shief  
New George Street  
Plymouth  
Devon

**Barnet Breakers Club**  
Meet at British Legion Hall  
Brookhill Road  
East Barnet  
Herts

**Barrier Breakers**  
Every Wednesday at  
The Railway Hotel  
Netherfield  
Nottingham

**Barry Breaker's Club of Wales**  
Meet alternate Sundays  
Hotel International  
Barry

**Barwell CB Radio Club**  
5 Mayfield Way  
Barwell  
Leics

**Beachcombers Breakers Association**  
c/o 3 Thursby Road  
Highcliffe  
Christchurch  
Dorset BN23 5PA

**Beach Breaker's Club**  
Mowbray Road  
South Shields  
Tyne and Wear

**Beechwood Breakers Club**  
c/o 14 Sandholes Street  
Paisley  
Scotland

**Beech Breaker's Club**  
Every Sunday evening at  
Blacksmiths Arms  
Thornwood Common  
Nr Epping

**Berlin Breaker's Club**  
Meet fortnightly at  
The Wasserturm  
Spandauer Damm  
Berlin

**Big C Club 80**  
c/o Dominix  
PS 14  
The Market  
Carmathen  
Dyfed  
S Wales

**Big Eyeball Breakers**  
Every Thursday at  
The White Hart  
Devonshire Hill Lane  
London

**Big H Breakers**  
c/o Ardencaple Hotel  
Rhu  
Dunbartonshire  
Scotland

**Big Top Breaker's Club**  
5 Council Villas  
Mellion Ross  
Barneleby  
South Humberside

**Big Wheelers Association**  
35 Alexander Court  
Lansbury Park Est.  
Caerphilly  
Mid Glam  
Wales

**Binley Breakers Club**  
c/o 12 Grange Avenue  
Binley  
Coventry

**Biscuit Town Breakers**  
PO Box 123  
Reading  
Berks  
(send SAE)

**Blackpool Breakers Club**  
c/o ADS Electronics  
239 Dickson Road  
Northshore  
Blackpool

**Boomerang Breakers Club**  
Meet at White Lion  
Moulton  
Northampton

**BOS Club**  
c/o Wernon Arms  
Spondon  
Derby

**Border Breakers Club**  
c/o Cathedral Garage  
Weybread  
Harleston  
Norfolk

**Boston Breaker's Club**  
Bramble Country Club  
218 Christchurch Road  
Bournemouth  
West Parley

**Bottle City Breakers**  
31 Farm Road  
Clock Face  
St Helens  
Merseyside

**Bottsford CB Association**  
c/o 8 Spusby Road  
Scunthorpe  
Sth Humberside

**Bourne End Breakers Association**  
Fridays at  
The Fire Fly Pub  
Bourne End

**Bournemouth Independent Breakers Association**  
Every Tuesday  
Coach House Motel  
Ferndown  
Dorset

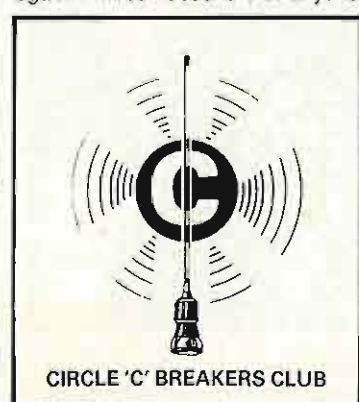
Yes folks, it's the bit you've all been waiting for — at least since you got to the bottom of the last page. It's club news time. Just a quick reminder that we're always pleased to hear from the clubs, whether it be a note, letter, club magazine/newsheet/newsletter, or a snap or two of a club event. And if you fancy making one of the lady breakers famous, not to mention the subject of universal ridicule, send us a pic and we might even feature a club lady of the month now and again. Whatever you've got for us, send it to Airwaves, Breaker, Link House, Dingwall Avenue, Croydon, Surrey. And now, the news. Bong, bong, bong . . .

The Binley Breakers Club are planning a sponsored drive from John O'Groats to Lands End with sponsorship for the copies made en route. Talbots are providing the cars (well done, chaps — we'll all rush out and buy a Talbot tomorrow), a company will supply the rigs and all the money raised will go to the Jimmy Saville Stoke Mandeville Appeal. The club hadn't finalised things at the time of going to press, but we'll bring you more details, or news of the outcome, as soon as we get it. And if you're asked for your support, do your best, huh? . . . The Disabled Information Advice Line (DIAL) in Fife have asked local clubs if they can help to provide CB rigs for disabled and housebound people in the area. The Kingdom Breakers Club, who meet in Leslie, said they would provide four before Christmas and DIAL are waiting to hear from other clubs. If you can help, call Mr Dall (of the Fife Leader; a local paper) on Glenrothes 753891, or write to the Fife Leader at 23-25 Kirk Wynd, Kirkcaldy and mark the envelope 'CB' . . . Some clubs, it seems, will go to any lengths to avoid *Breaker* — members of the Moon Base Alpha Breakers Club from Billinge, near Wigan, jumped out of an aeroplane. They did have parachutes though, and all money raised from the sponsored jump (they're hoping for around £850) will go to a local hospital . . .

**More** charity news — this time from the Meon Valley Breakers Club, who must have the most misspelt name in Airwaves. The club raised £300 by staging a sponsored pram push, from London to Fareham in Hampshire, and handed a cheque to three Cancer Research Campaign representatives at the club's first birthday party. Thanks from the club to the local smokies and everyone who contributed and thanks from us to the club for the pic . . . **Whiskey Lady** has taken over from Kennel Maid as secretary of the industrious Uttoxeter Breakers Club . . . **Kodak** sent us a few pix of the Citizens Band Cruisers Club fancy dress party in Colwyn Bay on Halloween night. We're tempted to say demons are a ghou's best friend, but you'd only groan. The club also held a News Year's Day swim to raise money for a local children's home — that's



enough to make us groan . . . Got a good news newsletter from the Southend and District Breakers Club — including an item on Carpet Sweeper, who was planning a marathon modulation in aid of the Children's ward at the Southend General Hospital. How did it go? And are Lady Tiger's sandwiches really that good? . . . **Moving** experience. Just found a note to say the aforementioned Southend Breakers have moved to The Moonraker, Station Road, Westcliff-on-Sea. Must have been the sandwiches. Meet Tuesday evenings . . . The Circle C Breakers Club in Crewkerne, Somerset, say legal AM will come sooner than anyone



imagines. Hope you're right, but don't hold your breath. Feature on the club soon . . . **News**, from across the border of the Country Breakers Club in Aberdeenshire. Check out the list . . . If you're planning next year's holiday, make a note of the Surf City Breakers in Bude, Cornwall, who wrote to say put out a call for them if you're down there



# Airwaves



'looking for the sun'. Perhaps they know where it is ... The Big H Breakers, or the Helensburgh and District Breakers Club to give them their proper title, got together and decorated the play room at the Stewart home near them in Dumbartonshire, Scotland. They had a few problems, like having to convince Huckleberry Finn that he shouldn't drink the paint and that he should hold the paintbrush at the end without the hairs, but everyone seems pleased with the result. Their thanks to everyone who took part ... John Ham, of the Lakeside International Club in New South Wales, Australia, wrote to ask us if we would include their clubs in the list. We have. Drop them a line, possums



... Another club new to the list, this time a little nearer to home — the Exclusive 32 Club in Forest Gate, London ... This month's gold star goes to the Apple County Breakers



Club in Taunton, Somerset. At their first AGM, they handed over a cheque for £2,000 to the Musgrove Park Hospital for their baby care unit. The money was raised from raffles, discos and sponsored events over the year. Anyone beat that? ... Nice idea from the Stump Town Breakers (from Boston, see? Boston stump? Don't worry), who are 'adopting' local OAPs and helping them out with gardening, shopping, hampers and the like. They have also just finished a sponsored slim (pro-

**BP Breakers Association**  
19 St Helens Avenue  
Fimby Maryport  
Cumbria

**Bracknell Breakers**  
Every Sunday at  
The Bridge House  
Wokingham Road  
Bracknell  
Berks

**Braithwell Rig & Twig Club**  
Every Tuesday  
Braithwell WMC  
Sih Yorkshire

**Bramley and District Breakers**  
5 Ferncliffe Terrace  
Leeds  
Yorkshire

**Breakaway '81**  
Every Friday night  
The Plough  
South Ockendon  
Essex

**Breaker One Four Club**  
c/o OK Corral  
Napier Barracks  
BFPO 20  
West Germany

**Breakers Town CBC**  
Every Thursday  
c/o The Stanley Club  
Stanley Road  
Carshalton  
Surrey

**Breakers Yard CBC**  
Every Monday at  
St Heier Arms  
Carshalton  
Surrey  
Tel: 01-669 5441

**Bricket Breakers Club**  
c/o Watford Component Centre  
7 Langley Road  
Watford  
Herts

**Bridgetown Breakers Club**  
Meet at Phoenix Social Club  
Heesle Road  
Hull

**Bristol Breakers**  
120 Beaufort Road  
St George  
Bristol 5

**Bristol CBC**  
1A St Peter's Rise  
Headley Park  
Bristol  
BS13 7LU

**Brook Breakers CB Club**  
Every Wednesday at  
Badger in the Brook  
Shirebrook  
Mansfield

**Brookvale Breakers Club**  
Sundays at  
Brookvale Pub  
Slade Road  
Erdington  
Birmingham

**Broadland Breakers Club**  
First Sunday at  
White Swan  
Stalham Norfolk

**Bromsgrove Breaker's Club**  
PO Box 5  
Bromsgrove  
Worcs.

**Brown Bottle Breakers**  
c/o The White Horse  
Norton Road  
Thelningham  
Diss  
Norfolk

**Buckingham Breakers Club**  
35 Addington Road  
Buckingham

**Buggen Bandits CB Club**  
On channel 13  
BFPO 25

**Burns Breaker Club**  
c/o Braehead Hotel  
Whitlells Road  
Ayr  
Scotland

**Bury CBC**  
c/o CB Paradise  
69 Northgate Street  
Bury St Edmunds  
Suffolk

**Byron CB Radio Club**  
Byron Hotel  
Ruislip Road  
Greenford  
Middlesex

**Caketown Breakers Club**  
Every Sunday at  
The Queens Hotel  
Pontefract

**Campaign for 27MHz AM CB Radio**  
10 Lochnell Road  
Dunbeg  
Connel  
Argyll PA37 1QJ

**Canary City Breaker's Club**  
Meet first Tuesday of month at  
Ebenezers Freehouse  
Salthouse Road  
Norwich

**Canyon Breaker's Club**  
Meet every Wednesday at  
Hillstown Miners Welfare  
Hillstown  
Chesterfield

**Cardiff & District Breakers**  
80 Richards Terrace  
Roath  
Cardiff

**Carlton & Langold United Breakers**  
Thursdays at  
Langold Hotel  
Langold  
Worksop  
Notts

**Carrick CB Club**  
Tuesday night at  
Carrick Hotel  
Maybok  
Ayrshire

**Castletown Breakers Club**  
29 Graiguen Crescent  
Abertridwr  
Mid Glamorgan

**Castle Breakers**  
c/o Rose & Crown  
High Street  
Tonbridge  
Kent

**Cathedral City Breakers**  
c/o 2 Barryman Court  
Wells  
Somerset

**CB 007 Breakers Club**  
Tuesday nights at  
The Windmill Club  
Rotherham

**CB 4900 Club**  
BFPO 15  
West Germany  
Call on channel 15

**CBA Central Scotland**  
5 Carronvale Avenue  
Larbert  
Stirlingshire

**CBA**  
Coronation Service Station  
Middleton Road  
Heywood  
Lancs

**CBA Fife**  
16 Bayview Crescent  
Methil

**CBA Reading**  
PO Box 123  
Reading

**CBA Sussex**  
15 Buckingham Mews  
Shoreham By Sea  
Sussex

**CBCB Club**  
103 Southwood Road  
Downside  
Dunstable  
Beds

**CBGB**  
CB House  
Crosby  
Liverpool

**CB Information Centre**  
7 Sandringham Crescent  
Harrow  
Midox HA2 9BW

**CB-NE**  
PO Box 61  
Sunderland SR3 1EZ

**CB Radio Action Group**  
55 Dartmouth Road  
Forest Hill  
London SE23

**Central 27 Breakers Club**  
Alternate Tuesdays at  
The Bruce Inn  
Inr Landmark  
Springkerse Road  
Stirling

**Central England Breaker's Association**  
Meet on Tuesdays at  
Staffordshire Volunteer  
Collingwood Road  
Burbury  
Wolverhampton

**Cheapo Breakers Incorporated**  
c/o 3 Skanley Road  
Maghull  
Liverpool L31

**Cheesy Breakers Club**  
116 St Christopher's Drive  
Caerphilly  
Glamorgan

**Cheltenham Breakers Assn**  
6 Pitville Crescent  
Cheltenham  
Or: The Crown and Cushion  
Bath Road  
Cheltenham

**Chichester & District Breakers Club**  
Every Sunday at  
Bulls Head  
Fishbourne  
Chichester  
Sussex

**China Town Breakers Club**  
c/o 54 Oxford Road  
Penkull  
Stoke on Trent

**CHUB Club**  
c/o 103 Roseberry Gardens  
Cranham  
Upminster  
Essex  
Meet Elm Park Hotel  
Hornchurch

**CIA BBC**  
Every Thursday  
The Maggie  
Sunbury on Thames  
Middlesex

**Cinderellas Breakers Club**  
Alternate Tuesdays  
Melling Hall Hotel  
Melling  
Lancashire

**Circle C Breakers**  
c/o The George Hotel  
Crewkern  
Somerset

**Citizens Band Cruisers Club**  
Every Wednesday at  
Mount Stewart Hotel  
Rhos-On-Sea  
N. Wales

**City Circle CB**  
Bedford Green  
Horseferry  
Leeds

**Clear Air Association**  
Mondays at  
Woodhays pub  
Wednesfield  
Wolverhampton

**Clog Town Breakers Club**  
33 Fendle Court  
Astley Bridge  
Bolton BL1 6PY  
Tel: Bolton (0204) 50046

**Clogtown Claypit Breakers Club**  
Aquarius Club  
Halden Street  
Dean  
Bolton

**Club 14**  
Every Thursday at  
Spotted Cow  
Willesden High Road  
NW10

**Club Breakaway**  
c/o 123 Hasler Road  
Canford Heath  
Poole  
Dorset

**Clyde Coast Breakers**  
c/o Island Hotel  
New St  
Stevenston  
Ayrshire

**Clydeside Breakers Supporters Club**  
62 Rosemount Crescent  
Carstairs  
Lanarkshire

**27 Coastline Breakers**  
PO Box 24  
Rhyd  
Clwyd  
North Wales

**Coastline Breaker's Club**  
Meet every Wednesday at  
Wash and Toge  
Le Strange Terrace  
Hunstanton  
Norfolk

**Copy Cats Club**  
The Manager  
Martholme Grange  
Allham  
Accrington  
Lancashire

**Corn Grinder's Club**  
The Pheasant Inn  
Windmill Street  
Brill  
Bucks







ceeds to charity) and they are planning a sponsored bed push. Sounds a good club . . . **More** work for the kids. The Olde Capital Breakers Club from Winchester took a coachload of handicapped and underprivileged children to Bognor for a day out and that was such a success they put on a Christmas party for them. They're doing a sponsored parachute jump too. You really don't have to throw yourselves out of aeroplanes to get a mention, you know. Bribes might be harder on the pocket but they're a lot easier on the legs. . . **A new one** for DXers. You'll find Sierra Delta International DX Group in the list . . . **Always** like to hear a club has taken its name from a pub. Shows they've got their priorities right. The Brookvale Breakers Club meet at the Brookvale pub in Slade Road, Erdington, Birmingham . . . **Another** FM club. The 27 FM Club in Milton Keynes say they welcome families with children and they're planning to set up a junior section . . . That's all we've got room for this month. And don't forget to let us know your club's news — or the Curse of Twong will fall upon you.

**Towards the end of 1980, the Northampton Breakers Club** — like many other CB clubs at that time and since — hit a sticky patch. Usual problems; lack of volunteer organisers and lack of support for events. But in January 1981, the club was reformed with a new committee and constitution and they've since gone from strength to strength. In the words of the Hollywood classics, this is their story. Film rights open to negotiation.

There were, at the time, four clubs in Northampton and the local CB movement was scattered to say the least. The first move was to set up a new committee of willing and active volunteers and the method they used to do this was unusual, but having seen the results, also a useful pointer for clubs in the same position.

The main problem of club management, whether it be a club for breakers or Nazi war criminals with an interest in crocheting, is that the majority of the organising work falls on the shoulders of the few. The Northampton Breakers Club found a way of preventing this happening by saying the committee would consist of certain jobs — and then inviting people to take them up. That way everyone knew what they

were letting themselves into and anyone with skill or experience in a certain role could do what he or she was best at. Spilling drinks and falling over at the bar is a post that doesn't crop up very often, which is a pity because most clubs have a good few members who could meet those requirements perfectly.

So the NBC committee was formed with the usual posts of chairman, deputy chairman, treasurer and so on, plus a few more specialised like liaison officer, responsible for organising meetings and events with other clubs (and taken up by a company representative who travels around the country) and an entertainments officer, who was mucho busy during the run up to Christmas (taken up by a lady member called Kaftan, who had experience of organising charity events and the like).

The meeting place is vital to any club — and one other local club had already suffered by meeting at various pubs in the town — so the NBC approached the local football club's sports and social club and they now have priority booking of the building, which means it is easy to organise events all through the year. The NBC have a good relationship with the football club and a more recent deal means that CB club members can also become members of the Northampton Town Sports and Social Club for an additional £1 annual subscription. NBC membership is set at £1.50 for the year.

The club house's capacity is limited but there is ample room for the regular 200-300 of the club's total 700 membership who attend their Sunday meetings. Some clubs' regular meetings are really nothing more than drink and chat — which is not enough to sustain a club over any length of time — and the NBC recognised this and decided to do something about it. Various forms of entertainment are provided, varying from video films to live bands — including the Jets, who recently had the dubious distinction of appearing on the Beeb's Top of the Flops, and had NBC members standing shoulder to shoulder in the packed club room.

They used to stage monthly eyeballs at the nearby Billing aquadrome, which is available to them out of season, and the money raised from one such event went to pay the legal fees of a local breaker who was busted. Apart from that one case (he ended up with a £30 fine), Northampton breakers have very little trouble from the police — in fact they seem keen to co-operate on anything they can.

One of the many club events organised outside of their regular meets is a good example. The club decided to hold a cruise following a nine mile course through Northampton in February of last year. They describe it as a show of strength, since there isn't really anybody of authority locally to recognise their protest. But whatever their reason, the cruise certainly made a point with 900 cars, 100 bikes and about 5½ thousand people taking part. The organisers followed all the proper procedures, asking permission and checking the route, and they say the police were 'magic' — in evidence to ensure things ran through smoothly, but not too much in evidence. Pity all clubs can't be that lucky. The NBC are now planning an anniversary event next month.

**Cottonmount Breakers Club**  
Alternate Tuesdays at  
Cottonmount Arms  
Mallusk  
Newtownabbey  
N. Ireland

**County Area Breakers Club**  
4 Corbett Gardens  
Ardersier  
Inverness

**Country Breakers Club**  
Alternate Mondays at  
St. Kathrines Motel  
Fyvie  
Aberdeenshire

**Country Town Breakers Club**  
Angorfa  
Baptist Street  
Penygroes  
Caernarfon  
Gwynedd

**CREST Leeds**  
Every Tuesday  
The Gate Hotel  
Kenmere Avenue  
Leeds 14

**Crewe Breakers Club**  
1 Main Road  
Crewe  
Cheshire

**Cromwell Breakers**  
c/o The Winning Post  
Market Deeping  
Peterborough

**Cuckoosland Breaker's Club**  
PO Box 2  
Penicuik  
Scotland

**Dare Breakers' Club**  
c/o Paul Venn  
72 Tre Telynog  
Cwmbach  
Aberdare  
Mid Glam  
S Wales

**Dark Island Breakers**  
PO Box 1  
Benbecula  
Scotland

**Delta Breakers**  
Sundays at  
Invicta Co-op Sports Club  
Burnham Road  
Dartford  
Kent

**Den Breakers Club**  
c/o 38 Down Field Way  
Chaddlewood  
Plymton  
Plymouth  
Devon

**Derwent Valley Breakers**  
10 Prospect Terrace  
New Kyo  
Stanley  
Co Durham

**Deveron Valley Breakers Club**  
Turnill  
Aberdeenshire AB5 7PQ

**Diamond Breakers Club**  
Diamond Jubilee Club  
South Kirkby  
West Yorkshire

**The Diamond Breaker's Club**  
c/o 16 West Close  
Stevenage  
Herts

**Didcot and District 27 Club**  
Meet first and third Sunday of the month at  
The Rio Hadden Hill  
Nr Didcot  
Oxfordshire

**Ditch Breakers**  
Meet every Monday at  
The Railway Hotel  
Netherfield  
Nottingham

**Dinnington & District Breakers Club**  
Alternate Wednesdays at  
The Squirrel  
Dinnington

**Dixieland Breakers**  
PO Box 25  
Grimsby  
South Humberside

**Doctor's Cure Breakers**  
Meet in the Legion  
Healing  
Grimsby

**Don Valley Breakers**  
PO Box 41  
Doncaster  
South Yorks

**Dorset Nob Breaker's Club**  
c/o 3 Barr Lane  
Burton Bradstock  
Bridport  
Dorset

**Dragon Breakers Association**  
c/o 70 Florrid Ligwy  
Moellre  
Anglesey  
Gwynedd

**Driffild CB Association**  
c/o 22 Haworth Walk  
Bridlington  
East Yorkshire

**Dukesville Breakers Assn**  
23 Potter Street  
Worksop  
Notts

**Eagle Breakers Club**  
c/o 76a Penn Hill Avenue  
Parkstone  
Poole

**Earthquake City Breaker's Club**  
DL 71  
Rotherham Record  
Regent House  
Rotherham

**East Antrim CBRC**  
PO Box 4  
Antrim

**East Coast Breakers Assn**  
c/o The Tartan House  
Fraling  
Nr Colchester  
Essex

**Eastern Counties Open Channel Club**  
c/o Everards Hotel  
Cornhill  
Bury St Edmunds  
Suffolk

**Edinburgh Breaker's Club**  
Meet Mondays at  
Sinalra's Lounge Bar  
St James Centre  
Edinburgh  
Scotland

**Edinburgh CBRC**  
22 Rose Gardens  
Edinburgh EH9 3BR

**Elite Breakers**  
The Father Thames  
Albert Embankment  
London SE1

**Essex Breakers Convoy Club**  
c/o 67 Nobles Green Road  
Soulmead  
Essex

**Essex Citizen's Band Club**  
24 Bryony Close  
Witham  
Essex CMB 2XF  
Tel: Witham (0378) 513532

**Exclusive 32 Club**  
c/o Stateside  
129 Forest Lane  
Forest Gate  
London E7

**Falkirk and District Open Channel**  
PO Box 15  
Falkirk  
Scotland  
FK1 1AA

**Farnborough Area Breakers**  
Every Thursday  
The Oasis Club  
Alexander Road  
Farnborough  
Hants

**Fish Town Sea Bees**  
Meet at Big Wheel  
Grimsby  
S. Humberside

**Fistral Bay DX-QSL Club**  
11a Edgecumbe Avenue  
Newquay  
Cornwall

**Five Bridges Breakers Club**  
c/o Barfield  
Oakville Road  
Hebden Bridge  
West Yorkshire

**Five-0 Breakers Club**  
c/o The Sports and Social Club  
Moore Lane  
Newton Aycliffe  
Co Durham

**Five Pools Breaker's Club**  
c/o The Old House at Home  
Blakedown  
Kidderminster  
Worcs

**Flixton, Urmston & Davy Hulme**  
Good Buddies Assn  
PO Box 2  
164 Corn Exchange Buildings  
Manchester 4



# Airwaves



Other recent events include two Christmas parties: One, a sit down dinner in their own building and the other a larger affair in another club with a greater capacity. When we spoke to them, they were also planning a football match against the Coventry Provident building society. Just hope the Coventry gang knew what they were letting themselves in for because the NBC team were wearing fancy dress, providing a 'sin bin' complete with a dustbin full of custard for offenders, and a rugby ball instead of a football. Who said the spirit of adventure was dead? Hope to bring you pix of that soon. Providing the custard didn't get into the cameras.

One idea which, we guess, would go down well in other areas was a lecture — An introduction to CB — which they held just after legalisation. Given by the deputy chairman, Bob Souster (hope that's spelt right, Bob), and attended by about 150 locals, it attracted everyone from CB retailer representatives to kids who were hoping to get a rig for Christmas. The club says they don't mind kids using CB — some are a lot more sensible than the adults, after all — but they believe they should do everything they can to ensure they use it sensibly. To that end, they are planning another lecture along the same lines to reach the people who did get sets for Christmas but didn't make the first event. We can't help thinking that if some people actually did something to get sensible guidelines across to the newcomers — instead of just moaning about them — it would be a lot better for everyone. Here endeth the lesson.

The advent of FM meant decision time for the NBC, as it did many clubs: Should they welcome the newcomers or keep it strictly AM? The NBC — like most clubs, we're glad to say — decided to keep membership open to anyone involved in CB, whether AM, FM, sideband or a combination of all three and just downright flash.

No club would be complete without its charity work and the NBC is no exception, directing any funds raised to local causes. All six local hospitals

have benefited from their efforts; the Harbrough Street hospital alone received £280 collected on the cruise. The local Area Health Authority didn't seem too keen to associate themselves with CB at that time, but they were interested in the money and picked it up at the club meeting the following day.

The club holds reciprocal eyeballs with other clubs regularly and two coach loads turned up when they invited a bunch from Leicester — they still used the football club venue but held it on a Saturday, which is usually a bit quieter and ensured everyone could get in.

If you've been to Northampton, or have spoken to any of the town's breakers, you might already have heard of the local News at Ten service. The Bear, a local breaker, puts out a half hour bulletin of CB news every Sunday night on channel ten (on AM and FM) and publicises the forthcoming activities of the NBC and other Northampton clubs. Not quite what CB is all about, we know, but providing it's done in co-operation with the local breakers — as this is — it is a useful and popular service.

A 24 hour emergency monitoring service, Help 9, also operates in Northampton and the NBC do what they can to help them out. The club say they would have set up their own group if Help 9 hadn't already been on the air but it would have stretched their resources, so the rotas are organised by Help 9 themselves and NBC members help out and raise money for them when they can.

So that just about ends our lightning tour of Northampton and one of its clubs — we didn't stop off at any of the local casinos because I lost a fortune last time. If you're a local breaker yourself — perhaps new to FM — and would like to join their merry throng, call in at one of their club meetings in the Northampton Town football and social club, 400 Obelisk Rise, Sunnyside, Northampton. Likewise if you belong to another club and want to organise some kind of joint event. But if you're planning to challenge them to football, don't say we didn't warn you.



**Forest Park Breaker's Club**  
c/o 1 Tor Street  
Stoke on Trent  
Staffs

**Forfar and District Breakers Club**  
Meet every Monday in  
Slag Hotel  
Forfar

**Forth Valley Breakers**  
Burns Inn  
Kerroway  
Fife

**Fosseway Breaker's Club**  
c/o The Rugby Club  
Stow on the Wold  
Glos

**Freedom Breakers International**  
11 June Street  
Boatle  
Liverpool  
Merseyside

**Frog and Nightgown Breakers Club**  
c/o Amberwell  
Pottersheath Road  
Welwyn  
Herts

**Gainsborough Breakers Association**  
Marshalls Sports and Social Club  
Gainsborough  
Lincs

**Garden of England**  
Meet Mondays, 10 pm  
The Becketts  
Southborough Lane  
Bromley  
Kent

**Give Us A 9 Club**  
Every Tuesday at  
Hand in Hand  
Boxhill  
Surrey

**GK 13**  
D5130 Geilenkirchen  
West Germany

**Glasgow CBC**  
361 Hallhill Road  
Glasgow G33 4RY

**Golden Gate Breakers Club**  
c/o The Deva Restaurant  
Cliff Road  
Dovercroft  
Harwich  
Essex

**Good Buddies Club**  
Alternate Wednesdays at  
Halfway House Hotel  
Kingseat  
Fife

**Gower Breakers Club**  
PO Box 12  
Swansea  
South Wales

**Grampian Breakers Club**  
59 Jasmine Terrace  
Aberdeen  
Scotland

**Granite City CB Club**  
92 Forest Avenue  
Aberdeen  
Scotland PH 322073

**Grantham Breakers Assn**  
8 Parklands Drive  
Harlaxton  
Grantham  
Lincs

**Grass Court Breakers Club**  
Every Sunday at  
The Wagon & Horses  
Haydock  
St Helens

**Green Acre Breakers**  
c/o Ye Old Frigate  
Aberdeen

**Guildford City Breakers**  
Tuesdays at  
The Cannon  
Portsmouth Road  
Guildford  
Surrey

**Gwent Breakers Club**  
Meet every Wednesday at  
The Gladiator  
Malpas  
Newport

**Halfway Breakers**  
12 Moot Lane  
Downton  
Salisbury

**Hangmans Breaker's Club**  
Meet on Thursdays at  
The Staffordshire Knot  
Birmingham Road  
Wolverhampton

**Harrow and Wembley CB Group**  
26 Greenway  
Kenton  
Middlesex

**Haying Breakers TX 10**  
Every Thursday  
The Rose in June  
Hayling  
Hants

**Hazzard County Breakers**  
c/o Oakshaw Hall  
School Wynd  
Paisley  
Renfrewshire

**Hazzard County Breakers Club**  
22 Radcliffe Avenue  
Chaddlesden  
Derby

**Hazzard County Breakers Club**  
Meet first Tuesday of month at  
Fleet Country Club  
Surrey

**Heart of Oak Breaker's Club**  
Fellham Road  
Ashford  
Middlesex

**Hereford 14 Club**  
Meet every Monday at  
Crystal Rooms  
Hereford

**Hereward Breaker's Club**  
17 Muntion Fields  
Ropsley  
Grantham  
Lincs

**Herts CB Radio Association**  
PO Box 37  
Potters Bar  
Herts

**Highland Breaker Club**  
PO Box 39  
Inverness

**Hillbillys**  
Meet every Friday at  
The Friend at Hand  
West Wycombe Road  
High Wycombe  
Bucks

**Hornblower Open Channel Club**  
c/o 65 North Street  
Ripon  
North Yorkshire

**Hucknall Welfare Breakers Club**  
Hucknall and Lunby Miners Welfare  
Portland Road  
Hucknall  
Nottingham

**Hunters Heath and Orchard Town Breakers**  
c/o Tally Ho Inn  
Broadheath  
Tenbury Wells  
Worce

**Invitation Breaker's Club**  
Every second Sunday  
The Yorkshire Dragon  
Maltby  
Cleveland

**Isle of Man CB Club**  
PO Box EV 77  
Douglas  
IOM

**Ironstone Breakers Club**  
c/o 16 Lunedale Road  
Scunthorpe  
South Humberside

**Journeys End Breakers**  
Alternate Thursdays at  
Esrick Social Club  
York

**Junior Breakers Club**  
Scout HQ  
Clifford Bridge Road  
Coventry  
1st Thursday every month

**Kent and Essex Breaker's Association**  
Every Tuesday at  
Orsett Hall  
Orsett  
Essex

**Kent and Essex Breakers**  
24 Mill Lane  
West Thurrock  
Essex

**King's Lynn Breakers Club**  
c/o Cellar Man  
Victoria P.H.,  
John Kennedy Road  
King's Lynn

**King's Norton CB Club**  
Poste Restante  
GPO  
Lisburn  
Northern Ireland

**Kintyre Breakers Club**  
Sudown  
Tarbart  
Argyle

<p><b>LA Breakers</b> Unit 13 Carlton Industrial Estate Hawthorn Avenue Hull</p> <p><b>Laker Town Breakers Club</b> Every Tuesday at The Cornish Man Hotel Wythenshawe Manchester</p> <p><b>Lakeside International Club</b> 18 Malvina Parade Gorokan New South Wales 2263 Australia</p> <p><b>Lakeside QSL Swap Club</b> 18 Malvina Parade Gorokan New South Wales 2263 Australia</p> <p><b>Laverock Breakers</b> c/o 12 Wilson Street Larkhall Lanarkshire</p> <p><b>Lazy K</b> Lima Kito Radio Club PO Box 55 Portadown Northern Ireland</p> <p><b>Legal Breaker's CB Club</b> 56 Playstool Road Newington Sittingbourne Kent</p> <p><b>Leapool Breakers Club</b> c/o Maid Marion Hotel Coppice Road Arnold Nottingham</p> <p><b>LEBC (Castle Breakers)</b> Pete Bailby c/o 189 Derby Road Long Eaton Nottingham</p> <p><b>Leicestershire CBars</b> c/o Modern Motoring 68 Narborough Road Leicester LE3 0BR</p> <p><b>Leighton Buzzard CB Club</b> c/o Coombe Drive Eastcote Ruislip Middlesex</p> <p><b>Lennox Breakers Club</b> 4 Lismore Crescent Oban Argyll</p> <p><b>Leslie Breakers</b> Mondays at The Leslie Arms Cherry Orchard Road Croydon</p> <p><b>Lime Bravo DX Group</b> PO Box 11 Oban Argyle Scotland</p> <p><b>Lincolnshire, Nottinghamshire, Derbyshire and Yorkshire area Committee (LNDY)</b> 8 Sunnyside Worksop Notts</p> <p><b>Log Breakers</b> Every Monday at Log Cabin Royal Oak Pub Walnall Notts</p> <p><b>Lorn Breakers</b> PO Box 11 Oban Argyle</p> <p><b>Lost County Breakers</b> Meet every Tuesday at Pete's Paradise Windermere Cumbria</p> <p><b>Lowestoft Jolly Breakers</b> 10 Viburnum Green Lowestoft Suffolk</p> <p><b>Maidenhead Official Breakers</b> Thursdays at The Prince Albert King Street Maidenhead</p> <p><b>Mansfield Area CB Club</b> c/o James Maude Social Club Forest Road Mansfield Notts</p> <p><b>Market Town Breakers</b> PO Box 2 Ashford Kent</p>	<p><b>Marina Breaker's Club</b> c/o 89 Rothesay Road Gosport Hants</p> <p><b>MCBRA</b> 85 Allens Lane Pelsall Walsall West Midlands</p> <p><b>Meon Valley Breakers</b> 4 Lawrence Road Fareham Hants</p> <p><b>Merseyside 27 Club</b> 34 Micklefield Road Liverpool 15</p> <p><b>Maxlco City Breakers</b> The Old Masons Arms High Street Mexborough Yorks</p> <p><b>Mid-Kent CB Club</b> c/o The Orchard Spot Spot Lane Bearstead Maidstone Kent</p> <p><b>Midlands CBRC</b> Unit 2 72 Oval Road Erdington Birmingham</p> <p><b>Midlands CB Radio Club</b> 85 Allens Lane Pelsall Walsall West Midlands</p> <p><b>Milktown Breakers</b> Meet every first Sunday Vanity Fair Bradford Road Huddersfield</p> <p><b>Milton Keynes City Breakers</b> c/o 2 Buckfast Avenue West Bletchley Milton Keynes</p> <p><b>Molesey Open Breakers</b> c/o Royal Oak 337 Walton Road East Molesey Surrey</p> <p><b>Monkey Town Breakers</b> c/o Victoria Hotel Church Street Heywood Lancs</p> <p><b>Monklands Breakers Club</b> c/o 78 South Commonhead Avenue Airdrie Lanarkshire Scotland</p> <p><b>Moon Base Alpha Breakers Club</b> Alternate Mondays Eagle and Child Main Street Billinge</p> <p><b>Moonlight Bay Breakers Assoc.</b> c/o The Great Harry Walsash Hampshire</p> <p><b>Moray CB Breakers Club</b> c/o Gearchange 40-42 Moss Street Elgin Morayshire</p> <p><b>NACB</b> Every Thursday at The Commodore International Nuthall Road Nottingham</p> <p><b>National CB Union</b> PO Box 123 Reading Berkshire</p> <p><b>National Committee for the Legislation of 27MHz CB Radio</b> 47b Stoneygate Road Narborough Leicester</p> <p><b>National Federation of Licenced Breakers</b> 142 Luttlenworth Road Nuneaton</p> <p><b>National Independent Pirate Band</b> Heirman Straat 37 Merksem 2060 Belgium</p> <p><b>Nationwide Breakers Club</b> Tentcroft Street Lincoln</p> <p><b>New City Breakers Club</b> 9 St Leger Court Linford Local Centre Gt Linford Milton Keynes Bucks</p>	<p><b>New Forest CB Club</b> 12 Westcot Road Holbury Hampshire</p> <p><b>Newton Breakers Club</b> Meet every Tuesday at Book and Candle Redditch</p> <p><b>Newtown Breakers Club</b> c/o 14 Cornbrook Holland Moor 2 Skelmersdale Lancs</p> <p><b>Newark Breakers Club</b> c/o 173 Barnby Gate Newark Notts</p> <p><b>Nolsy City Breakers</b> Every Wednesday Flamingo Night Club Darlington Co Durham</p> <p><b>North Bucks Breakers</b> The Folly Inn Adstock Buckingham</p> <p><b>North East Derbyshire 10-4 Club</b> c/o The Shoulder of Mutton Hardstoft Nr Pilsley Chesterfield Derbyshire</p> <p><b>North London Breaker's Assoc</b> Meet every Friday Midland Arms Church Road Hendon</p> <p><b>North Notts Breakers</b> 4 Farm Grove Theivesdale Lane Worksop Notts</p> <p><b>Northampton Breakers Club</b> Wednesdays &amp; Sundays at The Needle Northampton</p> <p><b>North Sea Breakers</b> c/o 27 Zena Street Glasgow</p> <p><b>North Tees Breakers</b> c/o Club Fiesta 395 Norton Road Stockton on Tees Cleveland</p> <p><b>North Walsham Breakers</b> c/o Bankside Lower Street Southrepps Norwich Norfolk</p> <p><b>North West Breakers</b> c/o Ballygomartin Drive Ballygomartin Road Belfast 13</p> <p><b>North West Breakers Assoc</b> c/o 8 Longhill Walk Moston Manchester M10 9NT</p> <p><b>North West Leics Breakers</b> PO Box 10 Coalville Leics</p> <p><b>Norwich Social Breakers Club</b> 72 Silver Road Norwich Norfolk NR3 4TD</p> <p><b>Open Channel CBC</b> 17 Coronation Street Preston</p> <p><b>Open Channel CB Club</b> 17 Coronation Street Blackburn</p> <p><b>Out of City Breakers</b> Every Tuesday Southall Working Mens Club Beighton Sheffield</p> <p><b>Over Wyre Breakers</b> Every Thursday Fernhill Hotel Park Lane Preesall Nr Blackpool</p> <p><b>Paradise Breakers Club</b> Meet alternate Mondays at The Beaumont Park Estate Shiremoor Tyne and Wear</p> <p><b>Pendle CB Supporters Club</b> 110 Barkerhouse Road Nelson Lancs</p> <p><b>Pennine One Nine Club</b> 29 Legrams Avenue Lidgel Green West Yorkshire BF7 2PP</p>	<p><b>Petersfield United Beakers</b> Every second Monday The Square Brewery Petersfield Hampshire</p> <p><b>Pirates</b> Meet every Thursday at The Mill Halfway Sheffield</p> <p><b>Pialstow Breakers Club</b> Every Monday Phoenix Club Grange Road London E13</p> <p><b>Popular Breakers Club</b> 29 Puttenham Road Sherfield Park Chineham Basingstoke</p> <p><b>Pudsey CB Radio Club</b> 54 Harley Drive Swinnow Leeds</p> <p><b>Purbeck One-Nine Club</b> Every other Tuesday at The New Inn Church Knowle Dorset</p> <p><b>QSL Elite (Swap Club)</b> PO Box 114 Toukley New South Wales 2263 Australia</p> <p><b>Quaker Breaker Club</b> c/o Waggon and Horses East Street Salfron Walden Essex</p> <p><b>Quiet Breakers Club</b> 8 Wedgewood Road Cheadle Stoke on Trent Staffs</p> <p><b>Rainbow Breakers</b> c/o PO Box 56 Cookstown Co. Tyrone N. Ireland</p> <p><b>R &amp; B Club</b> PO Box 4 Stranraer Scotland</p> <p><b>REACT UK</b> 10 Buckingham Way Sharnford Leicestershire</p> <p><b>Red Cat 14 Breakers Club</b> c/o Red Lion Derby Road Sandiacre Derbyshire</p> <p><b>Redditch Area CB Club</b> 88 Heronfield Close Churchill Redditch Worcs Tel: Redditch (0527) 67083</p> <p><b>Redhill Radio Breakers Club</b> c/o The Ram Inn Mansfield Road Redhill Nottingham</p> <p><b>Rhine Cuppers CB Club</b> On channel 13 BFPO 40</p> <p><b>Rhondda Breakers Club</b> 35 Shady Road Gelli Rhondda Mid Glamorgan</p> <p><b>Rhythm and Blues Club</b> The Bell Hotel Bolesdale Nr Diss Norfolk</p> <p><b>Richmond &amp; District Breakers</b> Friday nights at Black Horse Richmond</p> <p><b>Ringway Sideband Club</b> Every Thursday at Benchill Hotel Wythenshawe Manchester</p> <p><b>River City Breakers Club</b> c/o 38 Worcester Road Burnham-on-Crouch Essex</p> <p><b>River Exe Breakers</b> c/o 149 Withycombe Village Road Exmouth Devon</p>
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# Airwaves

**Riverside Breaker's Club**  
Every Friday at the  
Redcroft Hotel  
Bo'ness  
West Lothian  
Scotland

**Riverside Breakers**  
c/o 1 St Lukes Grove  
Humberstone  
Grimsby  
South Humberside

**Road Apple DX Club UK**  
SAE to Robert RA 68  
c/o Top Ear  
London Road  
Eaton Socon  
Hunts

**Rolling Stones Breaker's Club**  
The Moss Cottage  
Nottingham Road  
Ripley  
Derby

**Roman City Breakers Club**  
c/o 29 Kelston View  
Whiteway  
Bath  
Avon

**Roman Road Breakers**  
Tuesdays at  
Galway Arms  
Harworth  
Nr Doncaster

**The Rooftop Breaker's Club**  
Every Wednesday at the  
Gon'dola  
Ballon Woods  
Nottingham

**Royal T Breaker's Club**  
c/o 3 Manse Street  
Tain  
Ross-shire

**St Neots Breakers Club**  
Every Thursday at  
St Neots Working Mens Club  
Hardwick Road  
Eynesbury  
St Neots

**Saddleworth Breakers Club**  
Every Monday at  
Well Lit Pub  
Saddleworth

**Sandwell Area CB Club**  
4 Baldwin Close  
Twidale Warley  
West Midlands

**Saundersfoot and District  
Breakers Club**  
14 Ryelands Place  
Kilgetty  
Dyfed SA68 0UX

**Scottish Truckers Club**  
c/o 3 Cornon Crescent  
Bridge of Allan  
Stirling

**Sedgefield Breakers Club**  
c/o 4 Pine Ridge Avenue  
Sedgefield  
Co Durham

**Seven Towers CBC**  
15 Carnuff Drive  
Ballymena  
Co Antrim

**Severn City Breakers Club**  
c/o PO Box 2  
Shrewsbury

**Singing Wheels CBC**  
c/o 2 Grenolen Cross  
Tavistock  
Devon PL19 9ER

**Shannock Town Breakers**  
c/o 15 Birch Grove  
Sunway Park  
Sheringham  
Norfolk

**Shaw and District Breakers**  
PO Box 2  
Shaw  
Oldham

**Sheaf Valley BC**  
c/o 27 Ashberry Gardens  
Sheffield

**Shustoke and District Breaker**  
Alternate Tuesdays  
Shustoke Village Hall  
Shustoke  
Birmingham

**Sierra Delta International DX Group**  
PO Box 9  
Stourport-on-Severn  
Worcs DY13 8QN

**Slab Town Breakers Club**  
Meet every Thursday at East  
and West Ardsley Social Club  
Morley  
Nr Leeds  
West Yorks

**Smokie Town Breakers**  
103 Demondale Road  
Arbroath  
Angus  
Scotland

**Southend and District Breakers Club**  
Tuesdays at  
Moonraker  
Station Road  
Westcliff on Sea  
Essex

**South Birmingham  
CB Club**  
Meet fortnightly at  
Solithull Civic Hall  
Solithull  
Birmingham

**South Side Breakers**  
c/o Jean Armour Bar  
Shawlands  
Glasgow

**South Somerset Breakers**  
c/o 19 Vincent Street  
Yeovil  
Somerset

**South Tees DX Club**  
c/o 73 Tawney Road  
Eston  
Middlesbrough  
Cleveland

**South Wales Action Teams**  
16 Lanelay Park  
Talbot Green  
Pontyclun Mid glam

**South Wales Big 10-4 Club**  
139 Mansellon Road  
Mansellon  
Swansea

**South Wales  
10-100 Artists  
Club**  
Tuesday nights at  
The Landing Strip  
Swansea

**South Wales  
Federation of Breakers**  
c/o 74 Beech Court  
Giffach  
Bargoed  
Mid Glamorgan

**South West Lancs  
Breakers Club**  
c/o 14 Cornbrook  
Holland Moor 2  
Skelmersdale  
Lancs

**Stag Town Breakers Club**  
Every Thursday at  
Courlands Social Club  
Thorpe Road  
Bellamy Road Estate  
Mansfield  
Notts

**Steeltown Breakerways**  
c/o 12 Keelby Road  
Scunthorpe  
South Humberside

**Stour Valley Breakers**  
c/o The Red Lion  
South Street  
Maningtree  
Essex

**Stourport-On-Severn  
Breakers Club**  
Every Sunday at  
The Old Anchor  
Stourport

**Studley Breakers**  
c/o Studley Arms  
Studley Green  
High Wycombe  
Bucks

**Stump Town Breakers**  
Alternate Fridays at  
Gate House  
Redcap Lane  
Boston  
Lincolnshire

**Summer Wine Breakers**  
Every other Thursday at the  
Burnlee Working Men's Club  
Holmfrith

**Swan Valley Breakers**  
c/o 133 Nalders Road  
Chesham  
Bucks

**Swindon CB Club**  
23 Affleck Close  
Toot Hill  
Swindon

**Surf City Breakers**  
Alternate Sundays  
The Summerleaze Beach Hotel  
Bude  
Cornwall

**Tango Foxtrot Charlie  
International DX Group**  
PO Box 14  
Heywood  
Lancs

**Taunton Deane CB Club**  
c/o 19 Trinity Street  
Taunton  
Somerset

**Tayside CB Club**  
c/o 271 Fintry Drive  
Fintry  
Dundee

**Telford CBC**  
Tel: Telford 603474

**Test Valley Breakers Club**  
PO Box 27  
Andover  
Hants

**Thames Area Breakers**  
c/o 81 Villas Road  
Plumstead  
SE 18

**Thamesdown Trancelvers**  
Every Monday  
Swindon Town Football  
Supporters Club

**Three Feathers Sidebanders**  
c/o 269 Ball Road  
Llanrumney  
Cardiff

**Toadown Breakers Club**  
Meet every Sunday at  
Bridgend Inn  
Howey  
Nr Llandndod Wells

**Tunbridge Wells CB Assoc**  
Monday evenings at the  
Robin Hood  
Tunbridge Wells

**TURBO**  
c/o 16 Mendip May  
Downley  
High Wycombe  
Bucks

**Tweed Valley Breakers Club**  
c/o 72 Beech Avenue  
Galashiels

**TWINS**  
c/o 5 Nulhatch Drive  
Earley  
Reading  
Berks

**UK International Radio Group**  
PO Box 13  
Long Eaton  
Nottingham

**Untouchables**  
299 Manchester Road  
Kearsley  
Bolton  
Lancs

**Uttoxeter Breakers Club**  
c/o 26 Westlands Road  
Uttoxeter  
Staffs

**Walsall CB Radio Club**  
c/o 8 Central Close  
Bloxwich  
Walsall  
West Midlands

**Waterables Breakers Club**  
c/o 17 Furzey Road  
Upton  
Poole

**Wellingborough Breakers Club**  
Wednesdays at  
Dog and Duck pub  
Wellingborough

**Wessex Open Channel**  
PO Box 108  
Melksham  
Wiltshire

**Wessex Glamorgan  
Breakers Assn**  
25 Plass Newydd  
Baglan Moors  
Port Talbot  
West Glamorgan SA11 7DF

**West Glamorgan Breaker's  
Association**  
25 Plass Newydd  
Baglan Moors  
Port Talbot  
West Glamorgan  
South Wales  
Meet on Wednesday nights at  
125 Club, Port Talbot

**West London Breakers**  
Tuesdays at  
White Hart  
Southall

**West Glamorgan Breakers**  
c/o Dock Hotel  
Aberavon  
Port Talbot  
West Glamorgan

**West London Breakers**  
Meet at the Steam Packet by  
Kew Bridge

**West Somerset Breakers**  
c/o 5 Periton Court  
Minehead  
Somerset

**Weston Breakers Club**  
33 Lower Church Road  
Weston-super-Mare  
Somerset

**Wetherby DX 27 Club**  
c/o Darne Croft  
Wetherby  
West Yorks

**Weymouth CBC**  
Flat 1  
39 St Thomas St  
Weymouth  
Dorset

**White Cliffs Breakers Assoc**  
PO Box 13  
Dover  
Kent

**Whisky Valley Breakers**  
c/o 4 Tamdhu Cottages  
Knockando  
Morayshire

**Wickrath Breakers**  
On channel 14  
4050 Monchen-Gladbach 4

**Windy City Breakers**  
c/o 19 Lochlubo Crescent  
Barrhead  
Glasgow

**Wirral CB Assn**  
Meet every Monday at  
Riverside Restaurant  
New Brighton

**Woking Centre Breakers**  
c/o Jovial Sailor  
Ripley  
Surrey

**Woodpecker DX Group**  
PO Box 39  
Hereford HR1 2YL

**Worth Valley Breakers**  
c/o 8 Carlisle Street  
Parkwood  
Keighley  
Yorks

**Wye Valley Breaker's Club**  
c/o CB Centre  
106 East Street  
Hereford

**Wyre Forest Breakers**  
19 Chawson Pleck  
Chawson Estate  
Droitwich

**Yorkshires Elite Breakers**  
Fairway Inn  
Birley  
Sheffield

**Young Aldershot Area  
Breakers**  
Meet every Wednesday  
Oddfellows Hall,  
Aldershot

**Young Breakers Assn**  
22 Romley Crescent  
Bolton  
Lancs

**Zebra County Breakers**  
Post Office  
Sible Hedingham  
Essex



# ★ TWONG

SEE THE HAPPY LIZ C.B. MAN! SEE HOW HE TALKIN' TO HIS BUDDY! SEE HOW HE TALKIN' COOL CODE! SEE HOW HE PRESS THE RECIEVE KNOB...



SEE HOW QUICK HE GETTIN' A REPLY...



SEE HOW HIS NEIGHBORK RECIEVES C.B. TOO...



SEE HOW QUICK THE LIZ C.B. MAN GETS PISSED OFF...



SEE HOW HE RUNS... RUNS! RUNS! RUNS!



SEE HOW HE RUNS TO TWONG, GOOLING OF C.B. AND HIS BIRD, RAG-DOLL! SEE HOW TWONG LISTENS...



SEE HOW TWONG DECIDES...



SEE HOW TWONG REACTS...



JEEZ...!



YOU DON' CARE ABOUT C.B.! YOU JUST WANT THAT GUN'S BEE!



I NEVER DO...



C'MON, YOU TROUBLE-MAKIN' LIZ WAZZOK! I'LL TAKE YOU HOME!



MEANWHILE, TWONG'S PUTTIN' OUT ON ALL CHANNELS....



HMM! TWONG FOUN' THE RIGHT HOUSE, BUT WHEREAT THE BOOZE?



WOW! BOOZE COME THROUGH HOLE IN WALL! WOW!!



HEY, HOLE...



WASH! WASH!



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## BREAKER 10-44

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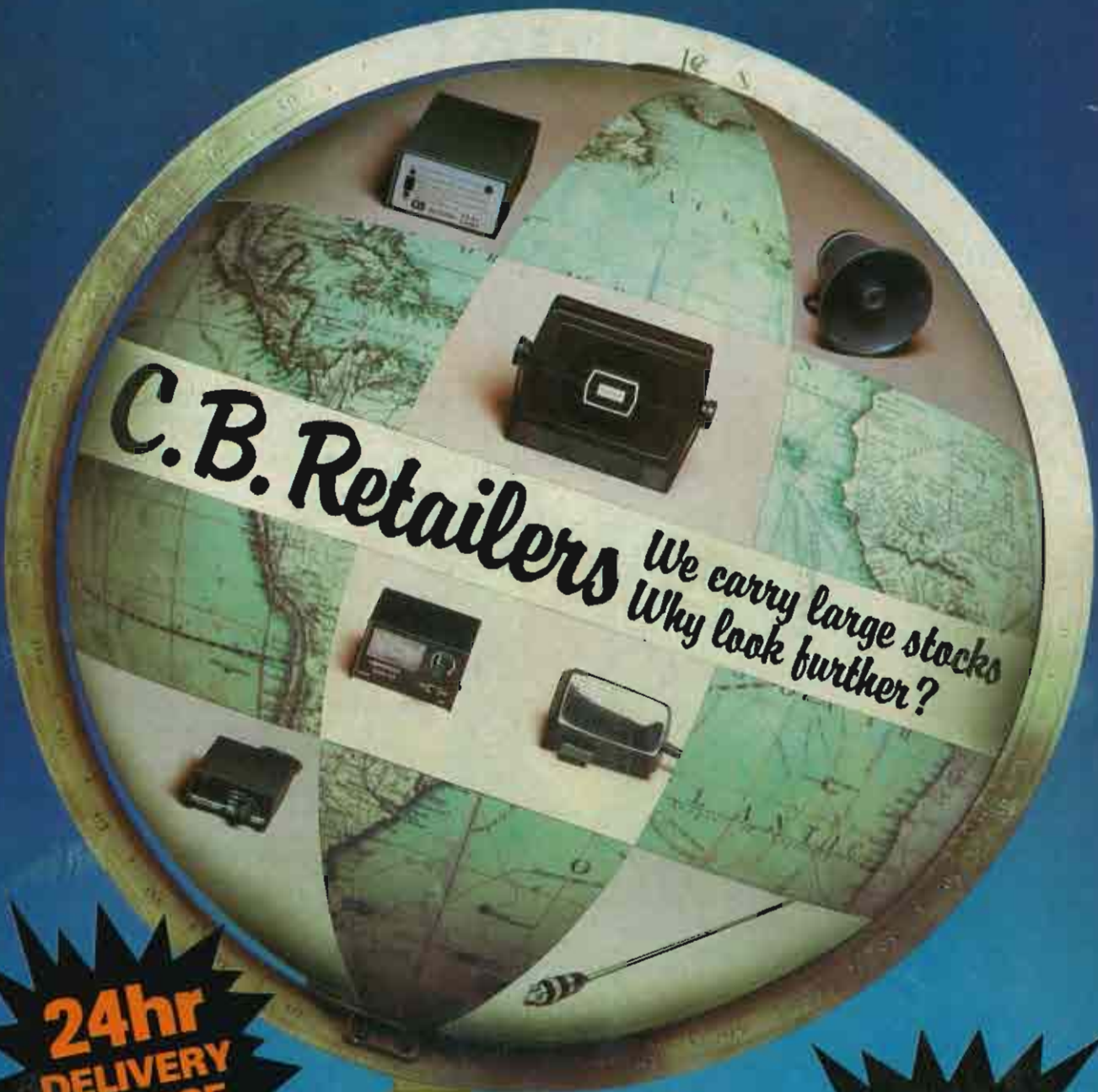
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