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A Link House Publication

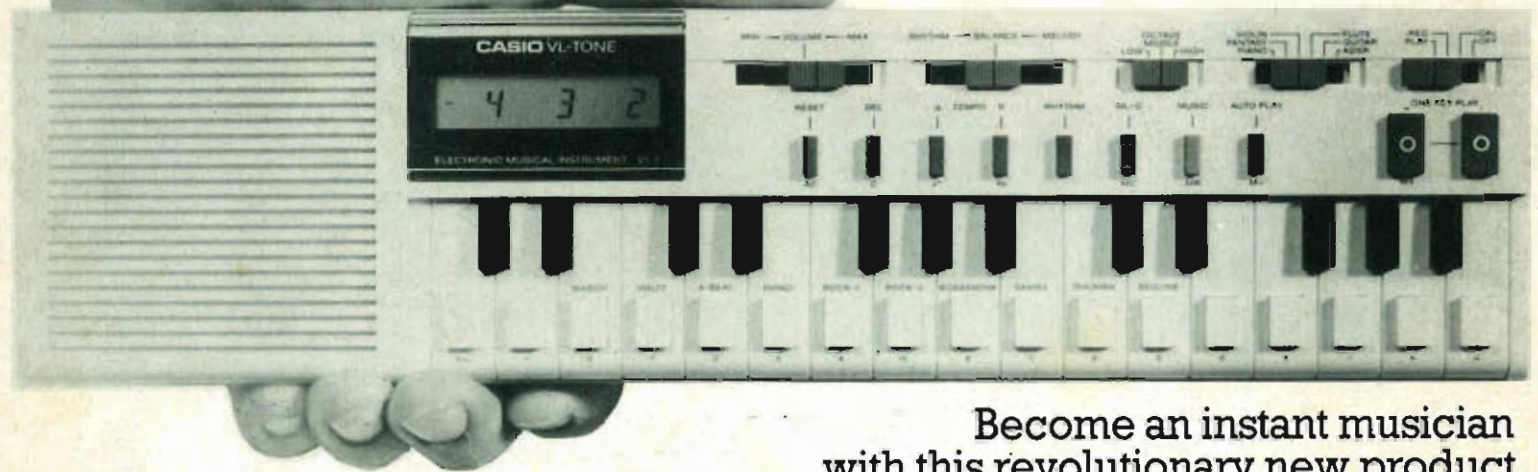
# BREAKER

## Back to base



The Citizens' Band radio magazine

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# CONTENTS



## BREAKER

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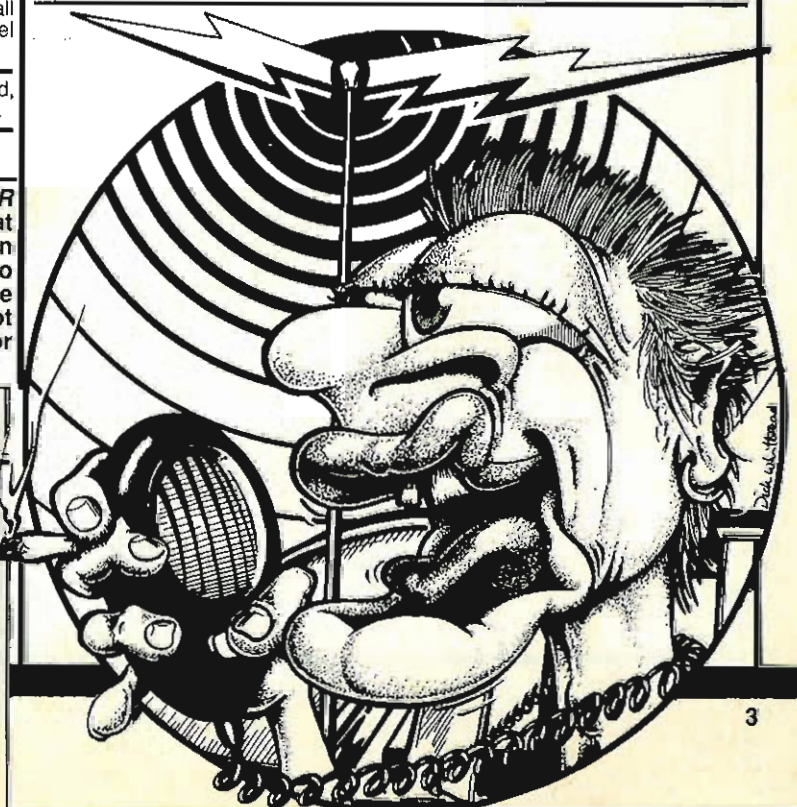
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A LINK HOUSE PUBLICATION

The publishers of **BREAKER** would like to make it clear that CB radio is at present illegal in this country, whether it be to manufacture, own, install or use such equipment, and it is not our intention to encourage or approve of such practices.

Racet/Spinner in the works .....	5
Epistles/Letters pray .....	7
Epistles/Father, son and the Holy Postie .....	9
Rumblings/We sound it out .....	13
Rumblings/Must have been that ham roll .....	15
Earwiggling/A word from our monitors .....	18
Talking heads/The inside story .....	23
Home help/All the dirt .....	30
Jamming/When you hear the pips .....	34
Exports/British calling cards .....	39
Earthy language/Leading a sheltered life .....	44
Must dash/Look at the clock .....	48
Clubs/They take some beating .....	54
Rubber-bander/Twong, Twong, Twong .....	61

We took Bob Irving to lunch and he did the home base pix. We took David Leigh to the BBC and he did the Hitch Hiker pix. We took Sandbagger down the pub and he supplied the rig. I was taken unawares and wrote this. Thank you.



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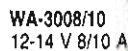
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0-20 V 20/30 A



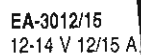
EA-3002L  
1-15 V 2 A



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12-14 V 6A



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12-14 V 8/10 A



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12-14 V 12/15 A



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10-15 V 6/8 A

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EA-3004	EA-3004-7	EA-3009	EA-3016	EA-3033	EA-3002 L	EA-3002	EA-3006 L	EA-3006 N	EA-3080	EA-3008-10	EA-3012-15	EA-3030
3-18 V	3-18 V	0-20 V	0-20 V	0-20 V	1-15 V	10-15 V	12-14 V	10-15 V	12-14 V	12-14 V	12-15 V	12-15 V
2 A	4 A	5 A	10 A	20 A	2 A	3 A	6 A	6 A	8 A	8 A	12 A	20 A
3,5 A	7 A	8 A	16 A	30 A	~ 2,5 A	3,5 A	~ 7 A	8 A	10 A	10 A	15 A	25 A
> 3,5 A	> 7A	>8 A	>16 A	> 30 A	> 2,5 A	> 3,5 A	> 7 A	> 8 A	> 10 A	> 10 A	> 15 A	>25 A
80 mV	90 mV	10 mV	15 mV	20 mV	50 mV	50 mV	100 mV	60 mV	8 mV	50 mV	30 mV	20 mV
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# RATSWEA JAW

Whatever criticisms we might make of the Government and their attitude to CB, it is rare that we can accuse them of acting too quickly. And yet after two years of dithering, the Home Office announced the FM draft specifications, and held three meetings to discuss the proposals, in three weeks.

The eagerly awaited announcement was made so quietly, and was so carefully timed, that less generous souls than ourselves might accuse the Government of being underhand. At the time of writing, ten days after the draft was published, few people know of its existence. If, when you read this, you have already heard the details, you do not have the Government to thank but the lobbying groups who sent statements to the press. And if you do know, bear in mind that the draft was published on April 16.

The timing was all-important to their plans, it seems. It also means that you will have to wait until next month for a detailed examination of the technicalities, because our deadline is upon us. But I don't suppose we can blame them for that. Before we give you a brief rundown on the specs, it's worth looking at the manner in which they were published.

On Maundy Thursday (April 16, the day before Good Friday, you heathens) the Home Office sent an undated letter announcing the draft specs to some interested parties. The letter invited them to make any comments before a meeting to be held on Friday April 24. Because of the bank holiday, the letters didn't arrive until Tuesday April 21, giving them just three days to consider the draft, formulate comments and pass them onto the home office. It would be naive to think that they didn't know the letters would be delayed — the Home Office have a cosy relationship with the Post Office, after all. And why the undated letter?

So, to the meeting. This, at least, gave those who had received the letter chance to comment. Or would have if they had been allowed to attend. Both the United Breakers Association and the National Committee for the Legalisation of CB Radio (NATCOLCIBAR) received letters asking for comment. Both asked if they could attend the meeting to express them. And both were refused admission.

Those who did attend the meeting, and two subsequent meetings on April 29 and May 5, included manufacturers and members of the Land Mobile Radio Specifications

Committee.

The draft suggests 40 channels with 10KHz separation. But the range starts on channel one at 27.60125, channel two on 27.61125 and so on up to 27.99125. The illegal AM service starts on 26.965 and the spacing, although also 10KHz, does not run equally through the range, so it seems unlikely that conversion from AM to FM will be possible.

It also means the FM service will not correspond with any service now used, legally or illegally, anywhere in the world and it has been condemned for this reason, and others, by the NATCOLCIBAR, the UBA and the CBA.

Although CB services differ throughout Europe, it would still be possible to standardise a service throughout the EEC — but if the UK adopts these proposals, we would be out on a limb.

Output is to be limited to four watts with two watts ERP, which will restrict the use of antennas. We'll cover this in more detail in the next issue. And the most significant statement for some of you is that there will be NO AMNESTY.

Before you all plummet into

the depths of despair, here's something to cheer you up. Ready? UHF. Ho, ho. Never fails. The specs suggest 20 channels, with a 25KHz separation, starting at 934.025. Power is set at eight watts and ERP is limited to three watts on sets using integral aerials. That means hand-helds. And if there's no health risk, as the Government has maintained, why the restriction? Huh?

Remember this is a draft proposal, and we hope by the time you read this it will have been given more exposure. We suggest that you write to the Home Office and your local MP stating briefly your opinions on their proposals. If you believe, as we do, that 27AM is still the only politically viable CB service for the UK, tell them so. Politely please. And if you believe that the existing AM operators deserve, at least, an amnesty, tell them so.

We will bring you a full account of the Government's actions, and a detailed look at the draft, next month. In the meantime, consider what the Government think you want. And then tell them what you really want. Just in case they forget to ask.

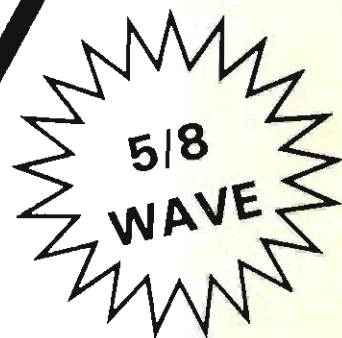
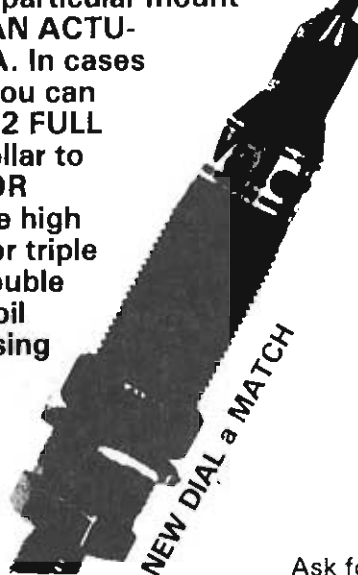


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# GIVE US A BREAK

## The rules

So. You want to make a point? You want to write us a letter? Easy, just scribble on a bit of paper and send it in 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, for obvious reasons, print your address, 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.

## Comic

Dear Sir,  
I bought Issue No 4 today, in spite of its "horror comic" cover, and found to my surprise that it filled a four hour train journey.

Whilst I do not seek self advertising, please feel free to publish my address because, as I don't possess any illegal gear, it would give me some twisted amusement to receive, and repel, any "midnight callers" from HMG.

In "Give us a Break" Rockin Robin claims years of involvement with the communications business, then advocates a frequency in the VHF 100-150MHz range. Since No 4 was put to bed the news has broken but please be advised that 108.0 to 117.9 in 25Kc steps is already in use for aircraft navigation and approach aids and 118.0 to 135.975 for voice communication.

From Airwaves I see no fellow sufferers in this neck of the woods, so if anyone between Grimsby and Scunthorpe should be putting out feelers would you please patch me through?

Bernard Pike  
Keelby  
South Humberside

(Didn't like our cover, huh? Well I wasn't at all impressed by your Centre Airport Hotel headed notepaper.)

## UBN

Dear Breaker,  
Just a line to let you know about our organisation, United Breakers National, which was re-formed 5 weeks ago. We used to be in the UBA, but after some heavy verbal and mud slinging, between ourselves and a certain guy in London, we decided to go on our own.

We still stand for the same aims, namely 27MHz. But we just feel that we have been let down badly. Anyway, we now have somewhere in the region of 3,000 members.

We let our members know all what's going on, both on the legal side and demonstration

wise. In fact, any news about CB, but sometimes we do have problems as we have members as far away as Dundee, Scotland.

The breakers around here are in the local club, which is the Worth Valley Breakers.  
Box Car Willie  
Keighley  
Yorkshire

## Sold

Dear Breaker,  
I cannot understand your Reasoning. I think that as soon as 27FM rigs are in the shops, and if they are as cheap as current 27AM rigs, and the range is say 5 to 10 miles, with a good no skip copy, this will be acceptable to most CBers.

I am one who will sell or retire my AM rig to buy an FM rig. Not to speak to people after 12pm sitting in their beds drinking brown bottles, but to avoid traffic holdups and copy people all day and night when, and how, I like.

Is 27AM any good for this country with all that skip and 10.01 copies? 27FM may be the answer. I am one who won't miss the Italians on a Sunday morning but look forward to traffic reports on traffic on its way to Southend and London during the summer rush.

The Golly  
Leigh-on-Sea

(We agree that, technically, FM is superior. And if a lot more feel the same way as you, FM could work. If.)

## Fun, fun, fun

Dear Breaker,  
I'm writing in answer to Joe 90's letter in Issue 4 complaining about people fooling about on the air.

Personally, I bought my rig for fun and fun I have. I get a damn sight more copies than those who stick to the basic "Whats yer handle, whats yer 20, what rig yer pushin?" Breakers who have nothing better to talk about than CB.

CB is a great hobby but can be taken too seriously. Anyone wanting a good laugh, get your skateboard down to Runcorn and join in the fun.

Lady Driver  
Chester  
Cheshire

(Ladies always seem to get more copies, don't they?)

## Channel crossing

Dear Breaker,  
First of all congratulations on going monthly! Secondly, the idea of standardising breaker channels seems a good one. Channel nine for emergencies, channel nineteen for truckers,

channel fourteen as a general breaker's channel.

I am sure that any mobile breaker finds it awkward to go up (or down) more than one or two channels, especially with a rig secreted out of sight in his wrapper. So why not make all breaker channels five apart (4,9,14,19,24,29 etc). That way we don't get in each other's way.

Here in Northampton the breakers are on 16 and if you go up one, or two you often find yourself walking over the big wheels on the super slab who have knocked it down one or two from 19. On 14 that would not happen.

And why do all those home-bases natter half the night only one away from the breaker channel, when their rigs are in full view and they could so easily go to the top (or bottom) of the shop?

When CB becomes legal there will be hordes of new breakers, and it may be impossible to change things around, so let's get a little order into the 27MHz airwaves before it is too late. Make all breaker channels five apart. That leaves room for eight! One for emergency use, one for truckers, one for mobiles as a general breaker channel, and five for special use — home bases, wallies, ladies of the night, whatever . . . And if we get more than 40!

Towns in this country are mighty close together. No sooner have you left one than you are entering another, and changing breaker channels every few minutes is a real bind. Interference between different places would not occur if the powerful home-bases kept their chatter on the general breaker channel to a minimum and called up other home-base on another frequency.

All the golden numbers . . .  
4,9,14,19,24,29,34,29.  
Kilgore Trout  
Northampton

(And channels 8 and 10 for medical use . . .?)

## Fangs a lot

Dear Breaker,  
Rather than praise you (which I will do further down), I would like to praise breakers themselves.

At the time of writing this, I have been on channel for one week. Being a Green Apple, I was naturally shy regarding transmitting, so just copied the mail for a few days. Finally I decided that to use CB to the full, I had to copy someone, which I did and found to be a wonderful experience.

Following that, about five

breakers, myself included, eyeballed one night with great success.

This letter is just to thank those breakers, especially Chamois Leather whose base 20 we used and who I often copy now. CB is something easily associated with because of the unity, why don't the Government realise this?

I'm sure many new breakers would like to say what I have just said, so on their behalf, thanks breakers and thanks Breaker for your service to us as a down to earth and informative mag.

Blood Donor  
Palmer's Green

(Necks please.)

## What?

Dear Breaker,  
Congratulations on a first class publication. At last we have our own magazine, not too pro-CB and not anti. It's great, keep up the work.

Eager Beaver  
Harrow

(What worries me is that Eager Beaver's name is Nigel.)

## Angry

Dear Breaker,  
Until two months ago I would have supposed that a "breaker" was a person who reduced old cars to cubes of metal.

It was then that my naivety was shattered and my very expensive music centre rendered unusable at the whim of a CB radio moron. When this idiot chooses to exchange his incredibly uninteresting views with his unheard "Good Buddy", I hear his every last cretinous utterance, whether I have the set on tape, radio or record player.

Turning the volume to Zero fails to eliminate the sound of this now hated voice, and the Post Office Anti-Interference service cannot act quickly owing to the vast number of illegal broadcasters using 27 AM.

The sheer offensiveness of this intrusion is matched only by this breaker's tortured diction, punctuated by innumerable "ers" and "ahs" as he drives his peanut brain in a vain attempt to keep this dialogue going in the accepted racy manner of the disc jockey.

To learn more about this cult, I bought a copy of your magazine and read a stirring article which suggested that when and if the Thames breaks its banks, breakers everywhere will contribute to the direction of life saving operations. This

BEFORE



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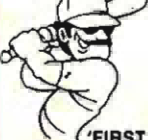
AFTER



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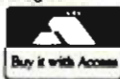
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**IT'S JUST UNDERWEAR!**



# GIVE US A BREAK

suggestion is about as specious as that made by your representative who appeared on television following the legalising of CB and implied that his main concern was for little old ladies living alone who would now be able to keep in touch with their friends.

Is it your intention to arrange reduced prices for these people, by the way, for even at current prices the equipment (I mean rig, of course) costs about as much as 3/4 years telephone rental, which would surely give old ladies access to a greater number of friends and services best equipped to help them in an emergency.

If my tormentor was just out of school, the sheer puerility of his inanities might be understandable, but disclosures he has made in his scintillating broadcasts suggests that he is in his fifties. I have a mental picture of him wearing a large baseball cap, smoking a big cigar and driving along in his 5cwt Sherpa, and, in a quaintly Walter Mitty like fantasy, imagine, it to be a multi-ton American truck.

*(Extremely interesting bit cut for reasons of space.)*

Well "Good Buddy", I doubt whether you will consider this suitable for publication in your magazine but I feel better for having written it, and I hope that there is someone in your organisation with a sufficiently developed sense of responsibility to consider my request that CB users are urged to convert their sets from 27AM. J Ashley  
London

*(You any relation to Angry of Mayfair?)*

## Threat

Dear Breaker,  
I have three issues of your mag and I think it is terrific. I think it is also great to hear you are monthly. But what about all us younger breakers trying to save up for our own (dare I say) rig? Eighty pence a month is going to make a big hole in our hard-earned pocket money.  
The Wombat  
Stanmore  
Middx

*(You pays yer money and takes yer choice. Or we send round the boys to collect your kneecaps.)*

## Warning

Dear Breaker,  
Fab mag, keep it upwards, best I've read so far.  
I've a problem though (no nothing like that!) as I used to be a R/C modeller until I was

introduced to CB.

The problem is that I've read most of the CB mags and they all say different things about legalisation and I don't know whether I should buy a rig yet, or should I wait until they're legal.

I've been on the airwaves with someone else's rig and I've been waiting patiently for too long now! Will AM rigs be stamped out by legal FM breakers or what?

The Falcon  
Dorset

*PS: Do you think Marj Proops could help if you can't!*

*(It is not our intention to encourage or approve of the use of CB... this is a recorded message. We understand FM sets will be designed to stamp out AM — by walking all over it with interference.)*

## Bad news

Dear Breaker,  
Great magazine and better than the other CB magazines I have read. Enough grovelling, now to the point. I am thinking of buying a 27MHz FM/AM rig and wonder if this will be legal in the autumn, due to the AM.

Could you also make it clear whether there is an amnesty for people caught with CB rigs.

Zero Hero  
Rochester  
Kent

*(AM/FM rigs won't be legal if an FM service is introduced and it seems likely that the Government will change the channel spacings so the FM part will be useless. And no, there isn't an amnesty or any plans for one. Tough life, isn't it?)*

## SOS

Dear Breaker,  
I've just finished reading Issue No 4 and there seems to be a lot of varying opinions about which channels should be used for breaking, truckers, emergencies etc.

A system which works extremely well for Marine (Merchant Navy) VHF stations is to use one channel (16) as an international calling (breaking) and emergency/distress frequency. Ships call each other and/or shore stations, on 16 and then switch to a working channel, choosing from up to 79 channels. If a distress is in progress on 16 an alternative channel is used for ship/ship, ship/shore calling, thus preventing interference with the saving of lives.

I see no reason why a similar system could not be used with CB. Undoubtedly there are (or will be) more CB rigs per square

mile than marine VHF sets but then a marine set transmits from 30 to 60 nautical miles.

In Issue 3 Blue suggested using 19 as a breaker channel for trucks, 9 for emergencies, and one other channel for local breakers. Unless a lot of rigs are equipped to monitor channel 9, while using or listening in on other channels, no one is going to be listening on channel 9, thereby making it useless to transmit a distress call.

The advantages of the marine system are many, any thoughts or comments on the drawbacks? Eightball  
Staffs

*(Breaking channels are, perhaps, a little too busy for emergency purposes.)*

## Biker breakers

Dear Breaker,

I am a keen biker and also have an interest in CB and would love to fit a rig to my bike. I have not seen any letters from 'Biker Breakers' in your mag nor any info on fitting rigs to bikes.

There's not much spare space or power and not many places to fit an aerial. How about a biker/CB article, you can use my bike as a test bed if you like!  
The Oil Burner  
Totnes  
Devon

*(We'd like to hear from any biker with...er... information on the subject.)*

## Nat King Cole

Dear Breaker,  
Disco One said in a Woman's Hour broadcast, speaking of 27MHz FM:

"The National Committee for Legalisation of CB Radio, who are supposed to be representing us, should never have agreed to this".

Before this error spreads, may I make it quite clear that there never has been any question of Natcolcibar "agreeing" to 27MHz FM. The decision was made by the Home Secretary alone — nobody else has the power of decision. But, that apart, Natcolcibar's advice to the Home Secretary has always been that if on 27MHz, CB should be AM, and from its last meeting a motion was sent to the Home Secretary saying so again, very clearly.

However, above all, Natcolcibar is in the business of getting a legal CB service going and will not refuse any workable specification, ie one that will give equal or better results than breakers get at present. We do not only have existing breakers to consider, but the far greater number of potential future

breakers, who are not prepared to break the law no matter how stupid they think it is.

Jan Leslie  
Secretary  
Natcolcibar

## Bird brain

Dear Breaker,  
As I was sitting at home watching the Idiot box, I suddenly heard a mention that CB radio was legal. Mercy sakes, I thought as I pricked up my ears, eyes glued to the box. But when they mentioned 27MHz, I jumped out of my seat and wondered when this was going to happen.

However, I was brought down to earth with a bump as the next words I heard were FM. After throwing up and booting the TV, I sulked for days.

After the sulking had finished, I popped down to my newsagent and there was my tonic, Breaker. Well done and 73's and 88's to you for such a brilliant magazine.  
The Budgie  
Somerset

*(You should try a different millet.)*

## Winnie

Dear Breaker,  
Pooh to you, Praying Mantis (Issue No 3). You think you're tender, I'm just 14 and have been on the air for the past three and a half years.

I run both base and mobile (mum's the word) and have a girl whose handle, Velvet Voice, sums her up 100%.

Congrats all round Breaker, great mag. Already got my copy regularly so all I can say is 10-10, we'll do it again. I'm going beaver-eating.  
Super Tramp  
Chessington

*(Bon appetit.)*

## Flag Day

Dear Breaker,  
With reference to Model behaviour (Breaker Issue No 3) 26.975 MHz is usually used with only a black pennant. 27.225MHz is green/blue, 27.245 or 27.25 is blue and 27.275 is blue/violet or violet only.

Modellers can move to 35MHz but it's only legal for model aircraft. Cars and boats are still stuck with 27MHz.  
PB Wilson  
Southampton

*(Looks like we're all in the same boat.)*

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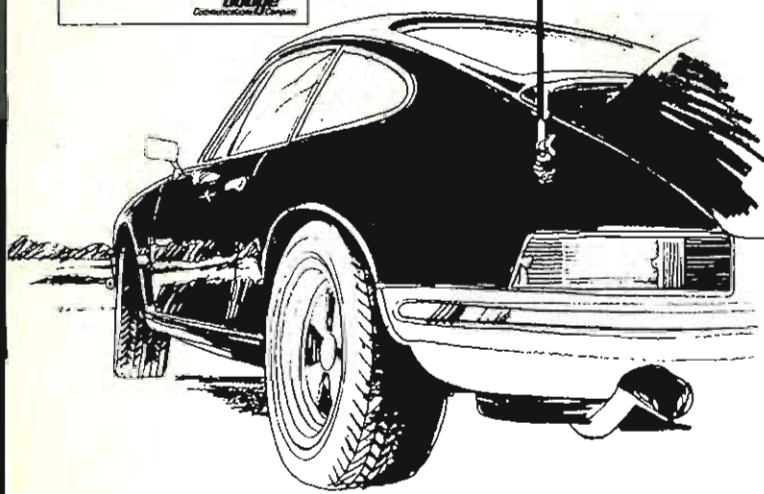
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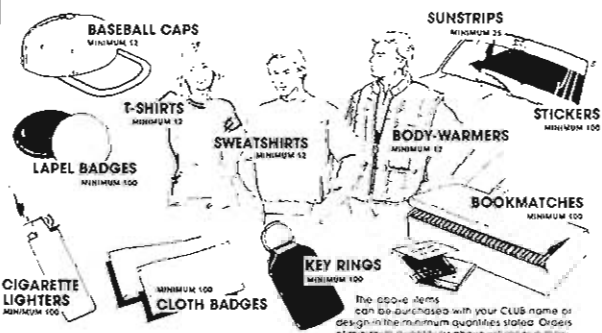
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# LOWDOWN

## Doctor, doctor

The breaking channel row continues with some using 14, others using 19 and truckers getting in where they can. But a suggestion put forward by a newly-formed monitoring group looks like getting support from breakers up and down the country.

When CB first arrived in this country it was logical that the world-wide accepted emergency channel, nine, should also be used here. If you arrive on the scene of an accident you don't want to have to wait on the side until there's a lull in the conversation. So channel nine is for emergencies and emergencies only.

It is also generally accepted that channels eight and ten are kept clear in case your making arrangements for an eyeball at the brown bottle shop bleeds all over someone's 10.33. But what is new, is the use of those two channels for medical purposes.

The idea comes from Suffolk EARS (Emergency Action Radio Service), a monitoring organisation, preparing to listen in to channel 9 on a 24 hour basis when CB is legalised.

One of the organisers, local GP Andrew Mason, is also a member of the Suffolk Accident Rescue Service, a team of volunteer doctors who are equipped with life-saving apparatus and go to road accidents to give on-the-spot medical treatment and recognises the potential of CB calling it the "first major advance in communications for GPs since Bell invented the telephone more than one hundred years ago."

It will obviously be particularly useful for the Suffolk Accident Rescue Service — and similar groups throughout the country — providing they can get on channel. Channels eight and ten are the answer.

Suffolk EARS have visited several CB clubs and all the breakers they've spoken to have agreed to keep the channels free. Although doctors are avoiding illegal CB like the plague (so to speak), they will use a legal service and believe now is the time to introduce the medical channel idea to breakers.

Sounds like a good idea to us. Any comments?

## Channel tunnel

I expect you've heard it in the local. The nurd's considered statement on CB, modelled on something he heard somewhere, or something someone told him: "Yur, CB'll be a flash in the pan. Look at America, it's dying out there,

already". Familiar, huh? Also a load of crap.

What is true is that they've got over the initial boom and the market has settled down, just like it will here. After all they've had CB since 1958, or just before eight o'clock, so they've had time to get used to it. What's now happening in the USA, and again it'll happen here eventually, is that CB is growing up, becoming more sophisticated, and people are finding more ingenious applications.

One which is proving very popular is based at the Chicago airport. And others as well, but I'm not one to namedrop. When the punters drive into the tunnel, which takes them under the runway to the flight terminals, the CB signal is, not surprisingly, lost and their rigs go dead. Not unlike when we drive through the underpass in Croydon. If we had a rig. Which we don't, of course.

The difference is that a flight information service is broadcast on 27AM in the tunnel. Flights delayed, please report to control desk, rig smugglers will be prosecuted, all that sort of stuff. It's financed by a few commercials so it's even self-supporting. Isn't that a good idea? Wouldn't it be useful over here? Giving road conditions ahead, perhaps. The possibilities are endless. The world is our oyster. Or wrinkle, in these times of inflation.

## Smile

QSL cards look like rivalling postage stamps in the collectability stakes. It all began as an off-shoot of CB to confirm long-distance contacts between breakers, and cards were soon being sent all over the world. Now clubs have been formed and it has become a hobby in its own right, and many cards are exchanged without senders having made contact. They simply write to addresses on club lists.

Cards have also become more professional and elaborate in design, as some of the examples in Medicman's Breaker features show. But what if your artistic talents are limited to writing on walls? We don't want those foreign chappies laughing at British QSL cards, do we? National pride is at stake.

Fear not. A Bedford company is producing photo cards. They may not have the edge on some of the better illustrated cards we've received but they are certainly an improvement on the poorer examples. The finished article depends on the quality of the pic you send them, of course, but it's easier than getting hold of artwork.

So get out your Brownie and send a 35mm colour negative with your name, address, handle/station number and personal greetings with a £24.95 cheque or postal order to Wilderman Ltd (B), 37 St Cuthberts Street, Bedford. They'll send you 100 cards and then you can send one to us. The only problem is that once the world's seen what you look like, will you ever get another copy?

## Hamming it up

Some people are very determined. If you'd been busted a number of times for operating an illegal AM home base and paid a succession of fines, what would you do? Call it a day? Take up macrame? No, some of us are made of stouter stuff. Not me, you understand, but some of us are.

The breaker in question is studying for an amateur radio ham's licence. Ah, but it's still illegal to broadcast on 27AM, you might cry, if I'd let you get a word in edgeways. True. But they've got to catch you first. And second and third, apparently, because I'm told they only warn you the first three times.

Sure, it's a lot of trouble to go to. Studying, learning morse, examinations, probably expensive too. And then there's the equipment to buy. Makes you think though, doesn't it? No, probably not.

## Deb's delight

Elton's, a classy club in Chestnut Road, London N17, are open until midnight every Thursday for a "CB enthusiasts' eyeball' evening. They've even dropped their Jolly Posh Clothes Only rule to let you scruffy lot in.

Everyone's dropping their standards. I don't know what the world's coming to. There's nowhere to take a deb these days. Maybe if I fitted a CB thingy in daddy's Ferrari...

## Filtering through

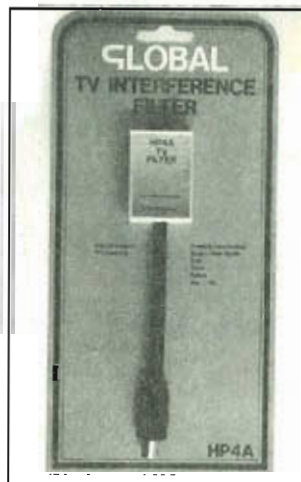
The most bitter telephone calls and letters we receive are not from breakers but from people whose TVs are troubled by interference from CB. They're not too interested if breakers walk all over any other signal, but disrupt their viewing and they are a force to be reckoned with.

Of course breakers aren't immune from television interference (TVI) but you've

all fitted a filter to your TV sets, haven't you? In case you haven't, and because it might stop irate viewers giving us an ear bashing, here's news of a new high pass filter.

The Global HP44 comes to you courtesy of Walters and Stanton Electronics and should have reached retail stores throughout the UK by now, selling at around £6.

It's a more advanced design



than their earlier models with a high rejection of interfering signals from DC to 180MHz, but which allows the higher frequency TV signal to pass unaffected. Which is why it's called a high pass filter, see.

The manufacturers say the filter also cuts out interference from ham radios, taxis and police. Do you suppose they mean breakers aren't the only offenders?

## Tight trousers

At the risk of being sexist, do you male readers remember the ladies in tight black trousers and blue sweatshirts on the South Coast Discount CB stand at the Custom Car show? Course you do. You lady readers probably remember them too. But not half as well. I suspect.

At that time they just had the one shop in Littlehampton. Or LA as it's known locally.

But business has boomed and now they've opened a second, HACES (Home And Car Entertainment Specialists Ltd), at 32 York Street in Twickenham.

They can't guarantee ladies in tight trousers but they do stock a full range of CB goodies imported direct from the States. And they do a nice line in video too. Wonder if they've got those ladies on video...



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# DOWN

## Good deeds

Good deeds department, again. And two more stories with happy endings, thanks to breakers.

In Hanwell, a mugger attacked 74 year old Mrs Florence Barkshire and stole her purse, leaving her lying in the street. She was found by Cavalier, a member of the Ealing and Brentford 27th CB Club, who was passing in his car and contacted fellow member Sea Otter, who phoned the Ealing police.

The police were their usual non-committal selves, of course, but did admit: 'There were people on hand and they certainly did help.'

The club also had a whip-round and raised £55 for Mrs Barkshire and fitted a new lock on her front door.

Mrs Barkshire was less reserved in her praise: 'I had never heard of this radio band before but they are wonderful, wonderful people. If they can help people in this way they ought to be made legal. They are real heroes,' she told the local newspaper.

The club have also given Mrs Barkshire a phone number to call if she needs any help — maybe other clubs could do the same on their own patch.

About 350 breakers in Derby took part in a search for 13 year old Mark Millinship who went missing. His stepfather Keith Hook is a breaker himself but was still surprised at the response to his call for help.

Mark returned home after a friend saw reports of the search in a local newspaper.

## Insure rescue

Imagine you've had your rig ripped off. Puts you in a tricky position, doesn't it? Maybe you don't need to imagine it, and you're sitting there now pulling out your hair and plotting your revenge. But what else can you do? The police won't exactly be sympathetic, and you can't claim on your insurance can you? Funny you should say that. We've heard from David Allen, who doesn't tell jokes about the Pope but does offer insurance for rigs against theft, accidental damage and even confiscation by our little yellow friend, Buzby.

Price depends on the type of rig, but think £15 and you won't be far wrong, which sounds like a good deal to me.

The insurance is underwritten by Lloyds of London, but don't ask me how he can insure something against theft when you're not

supposed to have it in the first place. If you want to ask him, write to Carlton Chambers, 24 Queen Street, Huddersfield or phone (0484) 47027.

## Blag

It must be getting difficult for the average criminal to make a dishonest living these days. But they really should know better than to blag a CB shop.

Peter Clark, from the Amateur Radio and CB Radio Shop in Brentwood, has asked us to thank, on his behalf, all the breakers who helped in the recovery of equipment ripped off from his premises.

'We received calls over the air, telephone messages and people popped into the shop with news. I have never known such an amazing reaction,' he told our crime correspondent.

'From the police reaction, it would appear that they too were surprised at the help we had.' Back to the factory, George. I need a drink.

## Police Five

Staying on the subject of ripped-off equipment, we've had a note from Arrow Electronics in Brentwood giving us details of stolen rigs, not necessarily from them but from customers, friends and fellow dealers. If you come across any of these, let us know and we'll pass on the message: TR7800 Kenwood (serial no. 1040911), stolen Doddinghurst; TS280 Sommerkamp (8300025 inside lid), stolen Glasgow; FDK Multi 700E (02259); FT7B Yaesu (9H0405), stolen Lincoln; TS240 Sommerkamp (8000180 inside lid), stolen Bolton; IC255 (no. not known), stolen Lincoln; TS280FM Sommerkamp (8300212 inside lid), stolen Romford; FT101E serial (8H351814), smash and grab Arrow shop; SK100 Sommerkamp (switched power linear), stolen Arrow shop and believed to have been offered around CBers in Billericay/Basildon area.

If you've had any equipment stolen, give us as much information as possible and we'll do what we can. Together we can make this world a better place to live in. Book him, Dan . . .

## Spacey

Did you see it? The space shuttle, Columbia? This is hardly the place to go on about the 35th wonder of the world and similar, but it was a bit trick, what?

Watched every televised minute, I did. Saw the abortive launch on Friday, the real thing on Sunday, and followed it all the way to touchdown.

Listened to all communications between Cape Canaveral, Houston Mission Control, the Kennedy Space Center and the chaps at Edwards Air Force Base. They, with this Capcom chappie, did major amounts of rabbiting with Crip and John Boy for 2½ days.

But I'm beginning to think that they weren't Americans at all. I think they were Russian infiltrators. In all that time they didn't say 10-4 once.



## The MOB

They may be known as the MOB and all wear dark glasses, but the Molesey Open Breakers are softies at heart.

Mrs Roberts, crippled with arthritis, had her electric wheelchair stolen from outside her front door. And when the police found it, it had been vandalised and needed £30 of repairs.

The MOB came to her rescue and raised the money to have the chair repaired. And

handed over a bouquet of flowers (below). Good eh?

## Dodault? Renodge?

It always makes sense, but particularly in times of economic strife, for companies to join forces and pool resources, and the formation of a joint truck company, Karrier Motors Ltd, by Talbot and Renault is the latest in a long line of similar deals.

The individual marques, Dodge and Renault, will continue but they plan to develop complimentary product and sales benefits and to sell both ranges through both dealer networks.

They say this will strengthen their position in the face of increasing international competition. So we can expect the phasing out of conflicting models in their ranges and the introduction of new ones.

## Ch . . . ch . . . changes

More news on REACT UK, which we received too late for inclusion in the feature.

Changes in the regions have also meant changes at the top, and the man who first got the organisation off the ground,

Ivan Francis, now becomes REACT UK general manager.

His previous post of national co-ordinator is filled by Alastair Mackay, whose wife Janet is now deputy co-ordinator. Peter Horne is the new membership and administration secretary.

A meeting of all area and county co-ordinators is set for June 6, to finalise the setting up of the teams in preparation for legalisation.



NEWS FLASH

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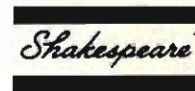
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# Channel No 9

## scent for help

We all know how CB first came to these shores, don't we? Gift wrapped in the Stars and Stripes in movies like *Convoy* and, more recently, in TV programmes like *Dukes of Hazzard*, the glamorous image of this elitist club soon captured imaginations. Everyone from Nationwide to the Eccleswade Echo was teaching Joe Public to 'speak CB'. But the bug had bitten and Joe Public was itching for more.

Unfortunately for the Government, more meant introducing a CB system to the UK and they weren't as carried away as the rest of us. Although many believe they should be. Carried away, that is.

No, the pro-CB lobby needed to push the responsible uses of the service, the Acceptable Face of CB. CB radio can save lives, they told the government, and the government had to agree. Maybe they thought they should have introduced it to the people instead of vice versa, not that they would ever admit it, of course. Even if it were true. Or not.

In the meantime, Joe Public had got himself organised. While the government were still umming and ahing, groups of enthusiasts were getting together, either to monitor the illegal sets already operating, or to set up teams in preparation for the day when the umming and ahing stopped. And that sort of optimistic forward planning certainly shows dedication to the cause.

The FM announcement has added fuel to both sides of the illegal/legal argument, so the two different types of organisations carry on — some monitoring, some waiting. But both with the intention of doing just what they said CB would do: saving lives.

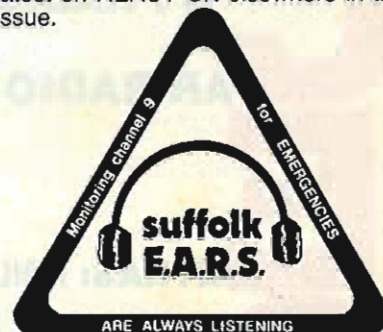
The irony is that the cowboy image of CB seems more appealing to the national newspapers and TV than monitoring teams. In one respect, this is understandable. Illegal monitors are reluctant to give their names in case they are used and most papers aren't too keen to say that breakers helped in police work on the word of Tin Can Pilot. Neither will the police confirm that the breakers played any part, because someone upstairs might just wonder why they didn't bust them. Bit tricky, really.

However, you would think there was a story in the fact that thousands of volunteers are planning to give up their spare time to monitor channel 9 when CB is legalised in the autumn. These groups need the media's help now to spread the word and attract members but stories about hookers using CB seem more appealing.

When the formation of a new monitoring group, Suffolk EARS, was announced at a press conference, the organisers were delighted when a BBC man strode in, as only a BBC man can, saying there was a camera crew outside. But when he said he wanted film of someone using a rig, and EARS

explained they couldn't do that because they are staying strictly legal, he grabbed a press release, mumbled "we might be able to use this" and strode out again. As only a BBC man can.

But then if the rest of the media told you everything you wanted to know, you wouldn't need Breaker, would you? So I'll just tell you we've expanded our coverage of the monitoring organisations and get on with it. You'll find the latest on REACT UK elsewhere in this issue.



First up this month are the aforementioned, and newly-formed, Suffolk EARS (Emergency Action Radio Service). The idea to form a local group first came about after GP Andy Mason gave a talk on first aid to the Eastern Counties Open Channel Club (ECOCC).

Andy is a member of the Suffolk Accident Rescue Service, a team of volunteer doctors equipped with life-saving equipment (sometimes worth up to £3,000 and bought by the doctors themselves), who go to road accidents to give on-the-spot medical help before the ambulance arrives. This is only one of a national network of similar teams and other monitoring groups might like to find out if there's one near them for the obvious advantages of having a doctor in the house.

But a team of doctors is only as effective as its communications and Andy feels they are not given the opportunity to use the equipment to the full. Time is the vital factor and delays can literally mean the difference between life and death. The first delay can occur when trying to alert the emergency services, particularly in rural areas, where phones are as rare as hens' teeth, and on some stretches of motorway. Getting the message to the accident rescue doctors themselves is the other problem area and high cost has prevented the use of a radio system for 24 hour coverage. Andy believes CB is the answer.

After speaking to the ECOCC breakers, Suffolk EARS was born. And having a doctor on hand has certainly made it an easy birth. So to speak.

First move was to form a committee. ECOCC chairman Mike Braband became chairman of EARS and club committee members Bill Thayer and his wife Carol took up the roles of vice chairman and social secretary. Andy sits on the EARS committee as a sort of medical adviser, also responsible for



ER... SPACEMAN  
HERE. SEEMS WE  
GOTTA 10-33. DO YOU  
COPY?... ER, 10-34...  
KNOCKING ON MY BACK  
DOOR... RODG.. AAAK!

co-ordinating with the authorities.

It's important that any group planning to operate within the law has a good relationship with the law — and the other emergency services — as we've said in previous REACT features. A good relationship is also useful to the illegal organisations but, alas, seldom possible and all they can hope is that they will be accepted after legalisation.

Both Mike and Bill are Americans with useful experience of a working CB system but they have lived in the UK for some years and stress that Suffolk EARS is a British organisation, designed to meet local needs. It's interesting that they've formed a local group, because although they hope to go national eventually, they're doing it on a regional basis, spreading out from Suffolk with separate groups; Essex EARS, Norfolk EARS and so on.

REACT chose to develop a national network from the start by appointing regional co-ordinators and then recruiting teams in each of the areas. There's more ways of killing a cat than choking it with Lynn's coffee, as we say in the office. When Lynn's not there.

When EARS do take off nationally, the Suffolk committee will operate a training programme to ensure standards are kept up. But it's early days yet and their first objective is to provide coverage for the A45 between Felixstowe and Cambridge, which is one of the busiest roads in the country and is heavily used by trucks carrying dangerous chemicals. Lynn's coffee, that sort of thing.

So, to continue the analogy of a few paragraphs back, their baby is born but they need a lot of help to get it through its infancy. Children being what they are today. And help, in this case, means volunteers, of course. Apart from the normal requirements of monitors and money, they also need practical assistance, particularly from you clever ones, for erecting base station antennas and generally fiddling around with technical bits.

The organisation will be broken down into 3 tiers. The first covers mobiles and, since they don't believe 930MHz will be used (join the club), that means 27FM. All monitors will have to hold a licence and they hope eventually to have all legal operators in the area on their books. They will each be shown how to make an emergency call (details are also given on the back of the membership card) and brief instructions on first aid will be given, so someone arriving at the scene of an accident can at least stop the bleeding and ensure a clear airway. This alone, they say, would be a great life saver.

The second tier will be strategically sited base stations monitoring channel 9 on a rota basis and they want volunteers to step forward now so these can be set up. This being the Year of the Disabled, Andy Mason was quick to point out the useful part they can play. People confined to their homes, particularly, may have the time to monitor and Suffolk EARS hopes they will be able to supply free sets, and the necessary instruction, to those who can't afford it — if EAR's funds allow it, which is where we come to the grubby money bit.

Complete home base stations don't

come cheap and EARS wants to ensure at least two back ups for each in case someone on duty is unable to operate for some reason. That means big money. The ECOCC have raised some funds with social events and they hope other clubs will do the same. Monitors will be charged a membership fee of £1 but the rest is down to donations and general scrounging, which voluntary organisations are so good at. And you'll all give generously, won't you?

The third tier is the linking in with police, fire and ambulance services and the accident emergency doctors. EARS believe channels 8 and 10 should be reserved for medical use. This doesn't seem too much to ask since they are usually clear to avoid bleeding into the emergency channels and all the breakers they've spoken to have agreed to keep 8, 9 and 10 free.

Recruitment is underway so that the groundwork — and there really is a lot of organisation involved — can be completed before CB Day, and they can be operating as soon as the monitors have licences. The sooner they hear from breakers, and prospective breakers, nationwide, the sooner their network can spread. Today Suffolk, tomorrow the world.

You can contact Suffolk EARS c/o Everards Hotel (really) in Bury St. Edmunds, Suffolk.

As we've said, monitoring groups are split into two camps. Those setting up organisations in preparation for legalisation, when they will start operating (like REACT and Suffolk EARS), and those who monitor the illegal 27AM sets already in the country, using illegal equipment themselves, of course.

It would be easy to fall into the legal/illegal argument again but lets just say both sides agree CB can save lives and some don't believe in waiting until the Government say it's OK to do so. It's not that the legal groups want to see lives lost. In fact, many of their members are monitoring now but independently of their organisation — after legalisation they will fall in line with the system introduced and work with the national network of teams now being set up.

There are, however, over a million CB rigs in this country and if a group hasn't got that vital link with the authorities to protect, there's enough 10.33s to keep them busy.



THAMES (Traffic Help And Monitoring Emergency Services) is one such group. With well over 200 members all

over the country, they are risking prosecution to save lives. Perhaps yours. Or yours, Mr Whitelaw. But let's not get too emotional. Helping the very authorities which are out to get you does create a few problems, of course. But we'll come back to that. Let's take the advice of Julie Andrews and Petula Clark and start at the very beginning.

THAMES was formed last year by the United Breakers Association but it soon became a sizeable operation in itself and George Mark, (or Sticks, as he's known to his friends) took over as director and now runs it as a separate entity, although still affiliated to the UBA.

George and his wife devote every spare minute to THAMES and handle most of the administration and day to day running. He maintains that monitors shouldn't be charged to sit at their own rigs in their own time, so membership is free. The only income is from the 27 Club — whose president, Microdot, has been absolutely marvellous, says George — and the sale of cloth patches.

Although called THAMES, they don't restrict their activities to London and monitors are on channel all over the country including Bristol, Portsmouth, Southampton, Weybridge, Northampton, Brighton and even the Sheppy Islands. Each monitor logs all calls for the records and gives a complete motoring service with details of road warnings, late garages, late chemists and, of course, reports accidents and other emergencies — which is where we come to the problem with the emergency services.

In some areas, all emergency calls phoned over by monitors are dealt with in the normal way. But in others, George claims the 999 operators are reluctant to take the calls from anonymous callers, and when they know it's a breaker the line is left open to trace the call.

Ideally THAMES would run a home base from a 24 hour monitoring centre equipped with the necessary equipment to take 10.33s efficiently. The members say that they are prepared to operate illegally from their cars to save lives but would prefer the concession of just one station to monitor legally without the fear of being busted. They did try without the approval of the authorities but a visit from six police cars and a van full of dogs put an end to that. As the 50 foot ariel mast lying in the back garden proves. But George remains enthusiastic and has happily given his name, address and phone number out over the air in the past in a bid to get more members. Now he's off the air but still kept busy co-ordinating the ever increasing membership.

Among them are two doctors, who must obviously remain anonymous, prepared to offer their services. Medic One and Medic Two, as they are known, will give training in first aid and use of the emergency codes and take vital details of the victims condition over the air or, if it's nearby, they will attend the accident themselves. THAMES hope to expand this service and recruit nurses and other medical types. Tree surgeons need not apply. Then again, THAMES claim to be able to give help on every subject, so varied are the

trades and skills of its monitors, so maybe you should.

If you're on channel, you naughty person you, and want to join THAMES, write to George Mark at 18 Shepherds Way, Monkshill, Selsdon, S. Croydon, or call him on 01-657 7213.



Next up are BEST, Breakers Emergency Service Team, based in the Midlands and organised and operated by the members of local CB clubs. Like the other groups, they are attracting members from all over the country and they are gradually extending their coverage. They've found that skip levels, sometimes reaching S9, mean a home base's range is often limited to three miles, so they are aiming for a concentrated network.

While the rest of the groups are listening into channel 9, BEST only monitor the breaking channels, working on the theory that since they can't yet provide 100% 24 hour coverage someone else is more likely to pick up the call on a breaking channel. Makes sense providing it's possible to get a 10.33 in edgeways. They can't be officially recognised, for obvious reasons, but all the local services gratefully receive their calls and the police turn a blind eye and a deaf ear to the monitors. If I said the police have asked BEST for help they would deny it, so I won't, but it seems to be working well. When three children were reported missing in the Midlands, for example, 200 breakers were soon combing a 50 mile radius.

BEST believe prevention is better than cure and give out weather and traffic reports, including motorway fog warnings, a service which they say is neglected by some groups.

All calls are recorded on cards as they come in giving monitors a record of the information to be passed on. Some use tape recorders wired into their home bases to cut out interference, a bit like the direct recording system that you don't use to record from your stereo because it's illegal.

Membership costs £1 to cover some of the costs and if you want more information, whether you're in the Midlands or farther afield, send a SAE to John Foster at 140 Cranby Road, Sunny Side Estate, Nuneaton, Warwickshire, CB10 8EW. Next.

As someone once said, necessity is the mother of invention. It was probably Oedipus, but that needn't bother us here. What should bother us is: Is this healthy growth in monitoring organisations healthy for the unfortunate victims of the accidents? Will monitors be fighting over the airwaves to take an emergency call? Very unlikely, because we're all jolly sensible, aren't we? But it does illustrate my point which is (in case it doesn't illustrate it at all) that we



need a body to co-ordinate all these different services. And by a happy coincidence one such body has just been formed.

The National Emergency Service (NES) is the brainchild of former REACT members Judy and Nigel Read, with a word or two of encouragement from Andy Donovan of the UBA.

NES will not control the activities or aims of the emergency monitoring group but will attempt to work as a go-between, to any degree the groups wish, and ensure an efficient service to the community. They will also work for the individual, the breaker who doesn't want to belong to a monitoring organisation but would like some form of training in taking and reporting emergency calls. These individual monitors will be logged on a computer, so locals can be put in contact with each other to form rotas.

They also hope to act as a voice, on behalf of breakers, to Government departments (good luck) and manufacturers.

A management council is to be set up and will include a legal advisor, a promotional materials manager and an events manager to provide information, news of services, liaison with existing emergency services and advice when required. A £2 membership has been set to cover postage and stationery.

They hope to attract individuals but they can obviously reach a wider audience at the clubs and have mailed information to about 150. If you weren't among them, contact NES at 48 Holmsom Close, Stockwood, Bristol BS14 8XL. (Tel: Whitchurch (Avon) 839678).

So, that's the state of play on the monitoring field up to date. Or rather it isn't because there must be some, particularly the smaller local groups, that we missed. We're only human, or very nearly, after all. And some of you are incredibly shy, forgetful, secretive or all three.

If you're not in the feature, don't take an overdose of Haliborange or throw yourself under the staff Chevy (oh, all right then, Capri), just drop us a line or ten and we'll include you next month. We'll include your address too, if you want it in, so it's also a free recruiting campaign. The Army would pay thousands for this sort of coverage, you know.

Ok, so that's the deal. Whether it's a big group or small, national or local, new or established, or even the story of an individual helping someone out, you tell us and we'll tell the world. Or at least those who read Breaker. And the rest really aren't worth bothering about.

# Channel No. 9



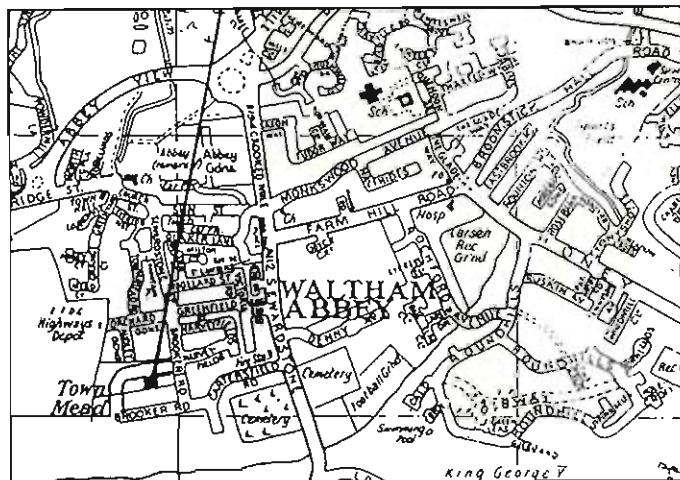
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# Technical hitch

Between you and me, I've never been a great fan of science fiction. I haven't really got anything against it, you understand, it's just that I never got into it when it was Very Trendy Indeed to get into things. When the other kids at school were saving the world (again) with Dan Dare, I was exploring the more progressive literature of the day, something which explored the social problems of the times. Beano was always a great favourite. Give me a banana skin and a good spanking any day, I'd say. Still do, actually.

And when everyone else at college was reading Moorcock, I'd discovered the books under our newsagent's coun-

ter. And they were worth a lot more on the open market, whatever disturbing images Moorcock's name might conjure up.

So, having given the amateur psychologists among you something to feast on, what's the connection between sci-fi and Breaker, as James Burke might say? Did they take a home base up in the space shuttle? How does a DV27 stand up to re-entry? Has Mr Spock got his ears on? Can you SWR a satellite? I should stress at this stage, these questions are rhetorical, just in case you're expecting answers.

No, the missing link, with apologies to Darwin, lies within the head of a TV

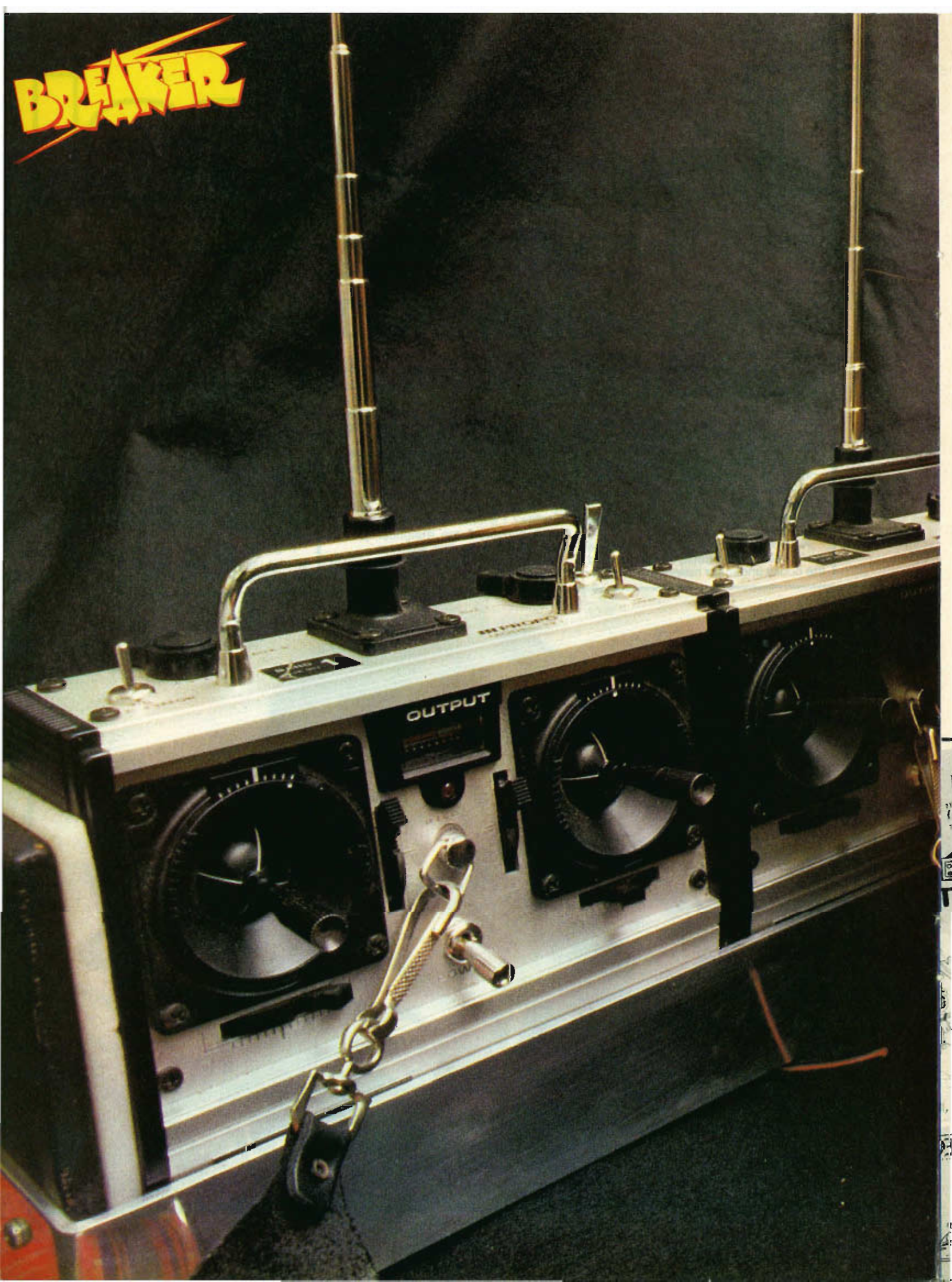
character. Got it yet? No? Oh dear, all this is wasted on you lot. Did you watch The Hitch Hiker's Guide to the Galaxy on Beeb 2? Just after the news on Monday nights. Based on Douglas Adams' books, which were based on his radio series.

They were all jolly fine and if you didn't see/read/hear them, hang your heads (another clue) in shame and write "I must not ruin the flow of Breaker features" 42 times. Then read the books and wait for a repeat of the TV series.

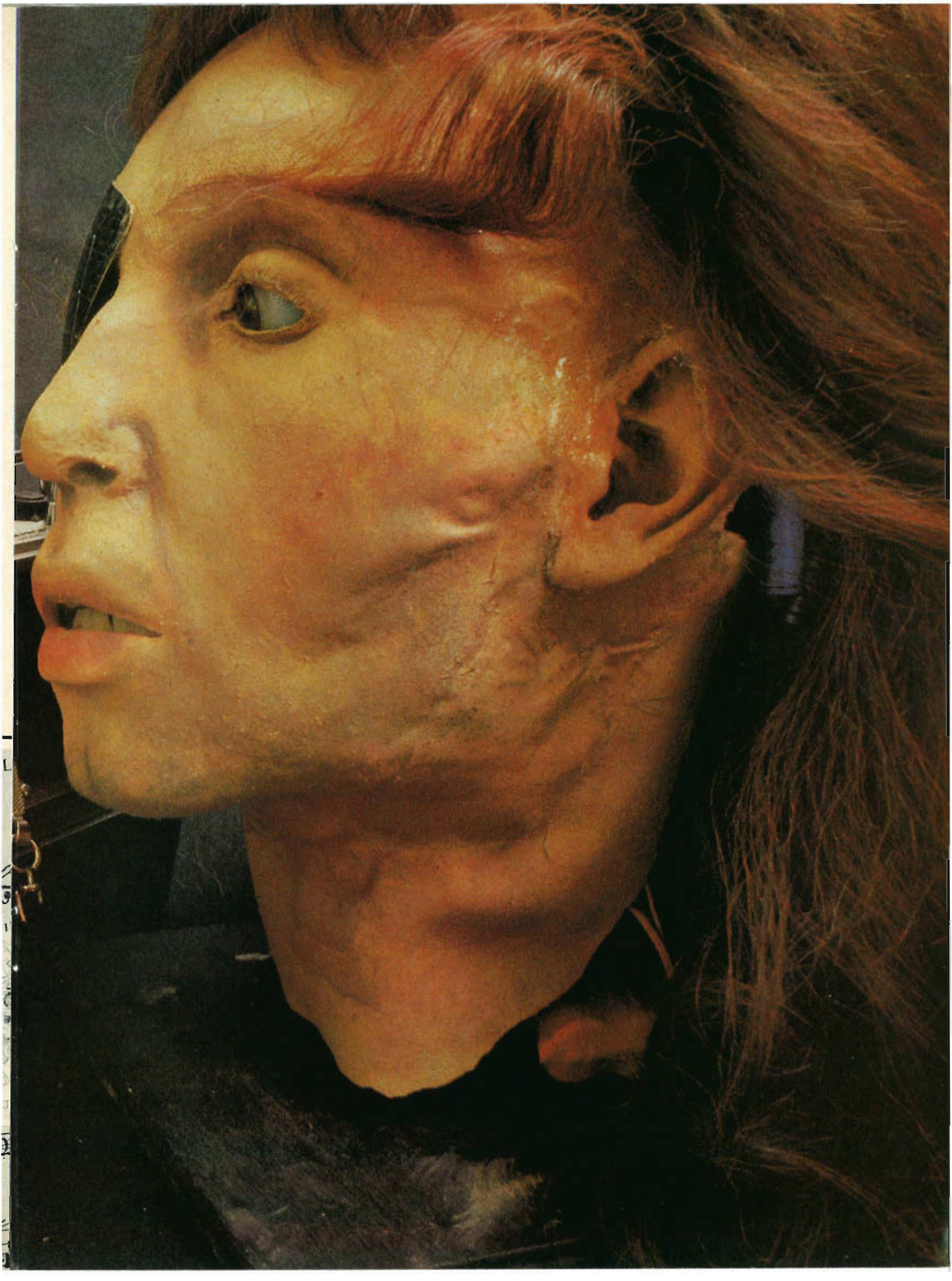
I will continue for the enlightened among us who recognise Hitch Hikers as the best TV series, book etc. etc. of



**BREAKER**









the decade. Second to Richard's appearance on Nationwide, perhaps.

You all remember Zaphod Beeblebrox, don't you? The two headed lovable rogue who made us all insanely jealous by cuddling Sandra Dickinson with three arms, he also invented the universe-famous Pan Galactic Gargle Blaster cocktail but I'm tempted to make snide references to Lynn's coffee, so I'll move quickly along.

It's one thing to write about a creature with three arms and two heads and the same thing again to say in a radio series. Logic like that made Spock raise his eyebrows but until Hitch Hikers appeared on TV, no one had seen Zaphod, of course. But they had to put him on the screen. And he had to have two heads and three arms. Tricky, huh?

But the clever chaps in the Beeb's special effects department are not ones to give up easily. If you've built the inside of the Tardis and the outside of K9, what's an extra head? A bit of a pain, as it happens, because they only had six weeks from being told about it to the start of filming. That's show business.

Assistant designer Mike Kelt was the man given the job and since the brief said the head should "do as much as possible", he decided radio controlled gear was the answer. He'd used it before on Dr. Who's K9, but that was easy in comparison. For Mike, that is.

That's the link, see. You knew all the time, didn't you? Zaphod's spare cranium was radio controlled, using 27MHz sets identical to those used by our radio model friends. Just think what chaos you would have caused modulating nearby when they were filming Hitch Hikers. No, best not.

Back to the plot where the fiendish Doctor Keltenstein is starting work on the skull. It's made of glassfibre, just like Triple C's Dutton, with holes for easy access, exactly like Triple C's Dutton. The dimensions were obviously limited by those of the actor, Mark Wing-Davey, who is renowned for his average size head, so it couldn't be too large but it had to house twelve servos. I bet your friends don't know how many radio control servos fit inside the average head. We certainly expand your mind on Breaker. You'd probably get thirteen in now.

But before he could wire up all the twiddly bits, Mike needed a face, or rather Zaphod did. And they chose a fearless expression. Yes, they certainly put a brave face on things at the Beeb (end of contrived joke). Mark Wing-Davey was made up with the scar and a latex rubber mask was formed from his face. This was then coloured and clever Joan Stribling from the make-up department made up MW-D to match.

In the special effects workshop, Mike put the head through it's paces for us. It swivels around and tilts on model helicopter bearings and the servos pull cables and push rods to make the mouth, eyebrows and eyes move. The effect is very eerie indeed and although a little worse for wear after being in storage, the head still looked better than some people in our office on a Monday morning.

Power for the mechanics comes from specially-made battery packs courtesy of radio control specialists MacGregor,

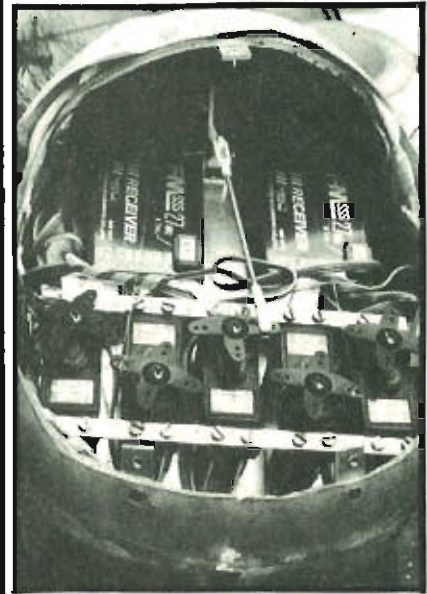
who also supplied the servos and the two seven channel handsets. He tried using penlight dry cell batteries just like you use in your torch, or your vibrator, madam, but they only lasted ten minutes, which would have proved a mite embarrassing during filming. So MacGregor made up the special power pack, giving them three hours of whirling and twiddling on set.

While you were sitting at home watching Hitch Hikers and wondering at the ingenuity of it all or, as in my case, drooling over Sandra Dickenson, Mike was just out of shot at the controls. Of the head, not Sandra. And when something went wrong — you probably missed that when you popped out to make a coffee — Mike would rush onto the set with his magic screwdriver and put everything right. Which means he stood quite near Sandra Dickinson . . . He gets paid too, you know. Ah well, that's show business.

If Douglas Adams writes another series, Mike says they'll make another head, which he promises will be even more life-like. If you saw the programme, you'll know that's quite a claim. If you didn't, take a look at the pics.

Let me leave you with one thought. If the BBC are capable of producing radio-controlled clones, was Zaphod really the first? Next time Larry Grayson cocks up his lines, look out for Mike Kelt with his magic screwdriver. Who needs science fiction, anyway? That's show business . . .

# Technical hitch



A head for figures. The top of the head lifts off with the wig (below) to give access to five of the servos and two receivers (above). The wiring acts as an arriel.



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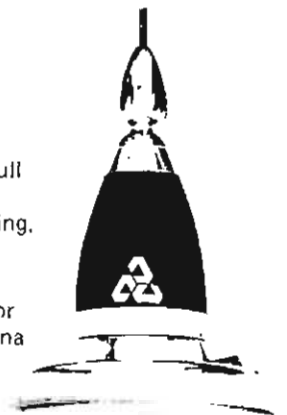
All hardware is stainless steel – will not rust.

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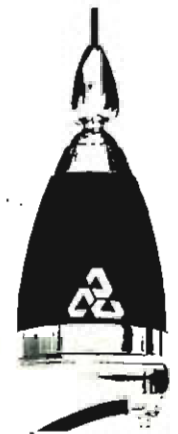
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# No base like home

If you were feeling particularly critical, you might accuse us of giving too much coverage to mobile rigs at the expense of home bases. An Englishman's home is his castle, you might say, immediately inviting a sack of hostile letters from irate readers in Wales, Scotland and Northern Ireland. Sure, you could add, home bases are in the minority in this country, but don't they deserve a mention now and again? If you did say that, and I realise you all value our judgement too much to do any such thing, what do you suppose our reaction would be? Would we tell you to naff off and mind your own business? No, of course not. If you said you wanted a feature on home bases, we'd say, "OK, here it is." And you have. OK, here it is (told you).

You were right when you said there weren't many in this country, though. The reason is obvious when you think about it, but we'll save you the trouble and tell you anyway. If you were considering smuggling rigs into the country (and this is purely hypothetical), would you go for mobile sets, about the size of a car cassette player, or home bases, more like stereo amps? No contest, is there? It's also a minority market, due mainly to cost, but we'll get to that later.

While we agree there isn't exactly a glut of home bases in the country, there is a demand for CB at home. We don't all drive, for a start. Some have been asked not to by a gentleman in a funny wig. Others don't fancy their chances against the staff Capri. Whatever the reason, they can still enjoy the benefits

What the fiddly bits do. The Midland (below) has upper and lower sideband (giving 120 channels), 100W gain, fine tuning, digital readout, power meter, squelch, RF gain and distance-local. The Stauser gives you the same plus hi and low, 240 channels in all. Cost? Yes. A lot.



of CB. And even if you do drive, you rely on home base operators for much of the information you pick up on your travels. And wouldn't it be handy if you could talk to home?

We've said that cost can be prohibitive, and it's true that purpose built home bases are two or three times the cost of the mobile set that you haven't got under your dash. But there's no reason why a mobile rig can't be adapted to home use.

A mobile rig will be more efficient at home because you won't get any interference from the dirty bits under the bonnet and the antenna will be static. DIY and Acts of God allowing. Although a car antenna can be used, twigs designed specifically for home use are obviously more effective. You've got the space, so you might as well use a better antenna. More of that later.

If you use one of those slide mounts that thieves are so fond of, you can swop the rig over from car to home but that means disconnecting and reconnecting each time, so it's better to save up for an extra set if you can.

Given that you're planning to use a mobile set in the home then, the first thing to establish is a power supply. Now, your home mains supply is 240 volts AC, unless you're continental, in which case you probably can't understand this anyway. Your rig is 12 volts DC. Spot the difference? Good, we're halfway there. The choices open to you are to either use the same power source as in your car or buy a transformer. Batteries are messy, smelly and potentially dangerous things and involve a lot of work, so are the ideal choice for the masochists among you. They also need charging regularly and prefer to be disconnected when not in use. I'm not suggesting you don't know that the red wire goes to the positive terminal and the black to the negative, or that you might get them the wrong way round. But if you have to do it several times a day... well, mistakes are very easy to make and fried rigs very difficult to mend.

Before the Battery Marketing Board write me a nasty letter, I should point out that they might be a little cheaper than transformers. But battery acid would play havoc with my Chippendale, so I know which I'd prefer. You can buy a transformer from almost any electrical shop — just ensure it's got at least a three amp regulated DC current, and pushes out 12-14 volts. Connect up the two wires and Bob's your old buddy. Or rather he would be if he could hear you but we haven't connected up the antenna yet, have we? Well, Bob will have to wait because I'm going to say a word about purpose built home bases first. We have covered the pros and cons of home base antennas before, incidentally, we'll do a brief synopsis, fear not. First, back to base.

Having said that mobile rigs in the home can also be a pain in the arse, I should point out that not all home base sets can be plugged into the mains, so you still might need a transformer. Or a smelly, messy, unsightly and potentially dangerous battery. But, after legalisation, you can expect plug-in items from the major manufacturers. At a price, of course.

The big advantage of home bases over mobile rigs is size. Because they aren't designed to fit between the heater controls and the ashtray in your car, the manufacturers can get more in and make it more attractive. Most of those already in this country have upper and lower side band and some have AM/FM and Hi/Lo switches giving up to 480 channels, but don't get too worried about these complexities. We don't know what to expect on legal sets until the government releases the specification but they will almost certainly be limited to 40 channels.

What we can expect is a number of filters and fine tuners, to improve the quality of incoming and outgoing signals, built-in SWR meters and a host of other electrical goodies which just won't fit into the in-car format. Top of the range (oh, all right then, expensive) rigs could well also feature built-in recording facilities, particularly useful to monitors, some of whom have already wired in their own. You'll have more room in your house than in your car (unless you've bought the Custom Car Mercury) for other accessories. Some base mikes include volume and tone controls, output and battery condition meters and built-in battery-powered compressor-amplifier. They also leave both your hands free for taking notes, picking your nose or any other unseemly habits you might practice in the privacy of your own home. And a filtered extension speaker will ensure you can hear just what the breaker at the other end is up to.

A linear amplifier, or boots, is one accessory which seems very popular with home base operators, who want to DX, or copy overseas. It's not very popular with anyone else, however, because while it boosts the signal enormously it also increases the chance of it interfering with your neighbours' TV set correspondingly. And any other CB users nearby, incidentally. While we're on the subject, it's well worth fitting a low-pass filter which will eliminate television interference (TVI), because even if you dislike your neighbours, it will ensure the rest of your household can watch TV without regular reports of your copies cutting into Hart To Hart. Although personally, I'd prefer the interference.

For the patient ones among you who have been waiting for a word on antennas, here it is. And if you've jumped straight here from the end of the mobile rigs bit, you don't know what you've missed. We've covered antennas in detail in a previous feature (Issue No 3. You send us £1.20 and we'll send you one. End of commercial.) but it is one of the most important items of equipment the home base operator is likely to buy, so worth mentioning again. It's also a personal thing, so we'll run briefly over what is available and leave you to choose. Can't say fairer than that, can we?

This is where the home base really scores over the mobile rig because the higher the antenna, the better the signal. Even if your car is jacked-up you just can't compete with a mast up among the seagulls. In these times of illegal operators, it can also be a dead giveaway, so some compromise and put it up in the loft with the TV ariel and

last year's Christmas present from Auntie Joyce. But after CB day, get out the ladder and the sky's the limit.

But how do you know which antenna to buy? What you need is some way of evaluating its performance, so it's a good job there's a thing called gain because that's just what it does. Given that base antennas, like the mobile variety, are referred to in terms of their relationship to the radio wave they are receiving, a quarter wave is therefore shorter than a half wave. Gain is measured in decibels (db) and the basic quarter-wave has a gain of nothing, zilch, zero. Sad really. But useful because the performance of all other antennas is measured in terms of how much better than the quarter wave they are. An antenna with a 3db gain is twice as effective as one with no gain. Generally, the very best won't give a realistic gain of more than 20db. If you're going shopping, the gain's the thing to check then, but there are other considerations.

Since we're attempting to be brief, a sort of refresher to the earlier feature, suffice to say here that they can be divided into two groups; directional and omnidirectional. The directional sends your signal further, but only in one direction. Fit a rotator, driven by a small electric motor, and you can swivel it round and pretend you've got radar. Not surprisingly, omnidirectional antennas, work equally well for signals at any point of the compass.

Antenna technology can go as far as your wallet allows but as with most

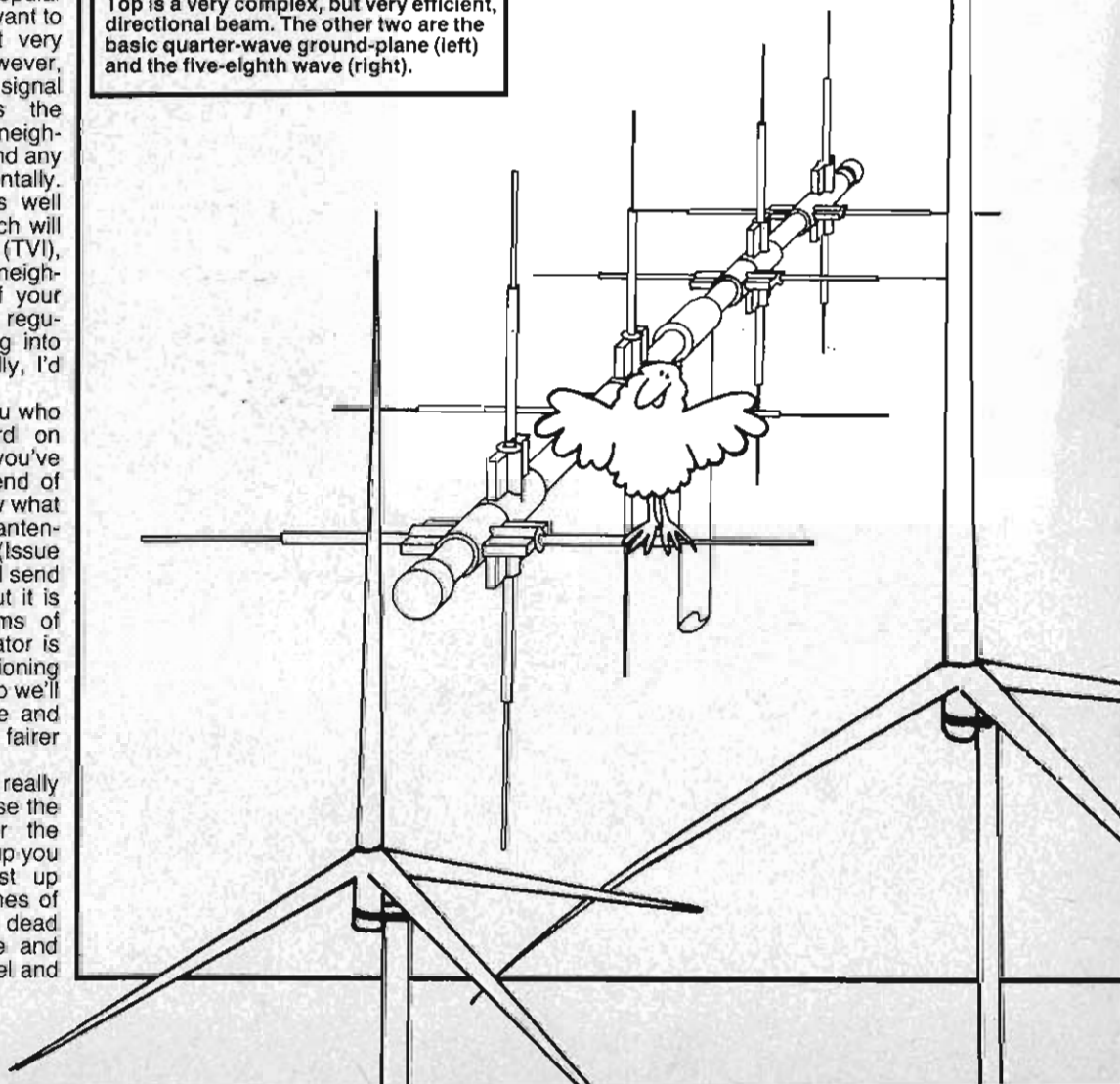
things, it's a matter of weighing up the performance (db again) against the cost. You pay your money and take your choice, my boy. Remember though, the more complex the antenna you go for, the more hassle you're going to have mounting it. Whether you screw it to the roof, the side of the house or a fifty foot mast in the back garden, ensure it's mounted securely. It'll take a hell of a buffeting from the weather.

When you're choosing a suitable location, ensure too that the feed-line (large diameter coax is expensive but worth every penny) is kept as short as possible because it absorbs power as the length increases. Use proper connectors for any joins and waterproof them all with electrical tape. There's no point in spending hundreds on a plush rig and antenna and then rushing the installation, or cutting corners. Take your time and stick to the letter of the installation and operating instructions.

Before I leave you to pore over the pix and dig out issue No 3, a word about lightning. It might not strike the same place twice but have you been struck once? Fit an in-line arrestor to the antenna coax and join it to an earth rod by thick copper wire. Or connect it to your cold water pipes and enjoy a couple of seconds of free hot water.

Once you've used a homebase, you'll never want to be without one. There's none of the distractions of driving and all the comforts of home. If you can open a can of beer and speak at the same time, you're halfway there.

Top is a very complex, but very efficient, directional beam. The other two are the basic quarter-wave ground-plane (left) and the five-eighth wave (right).

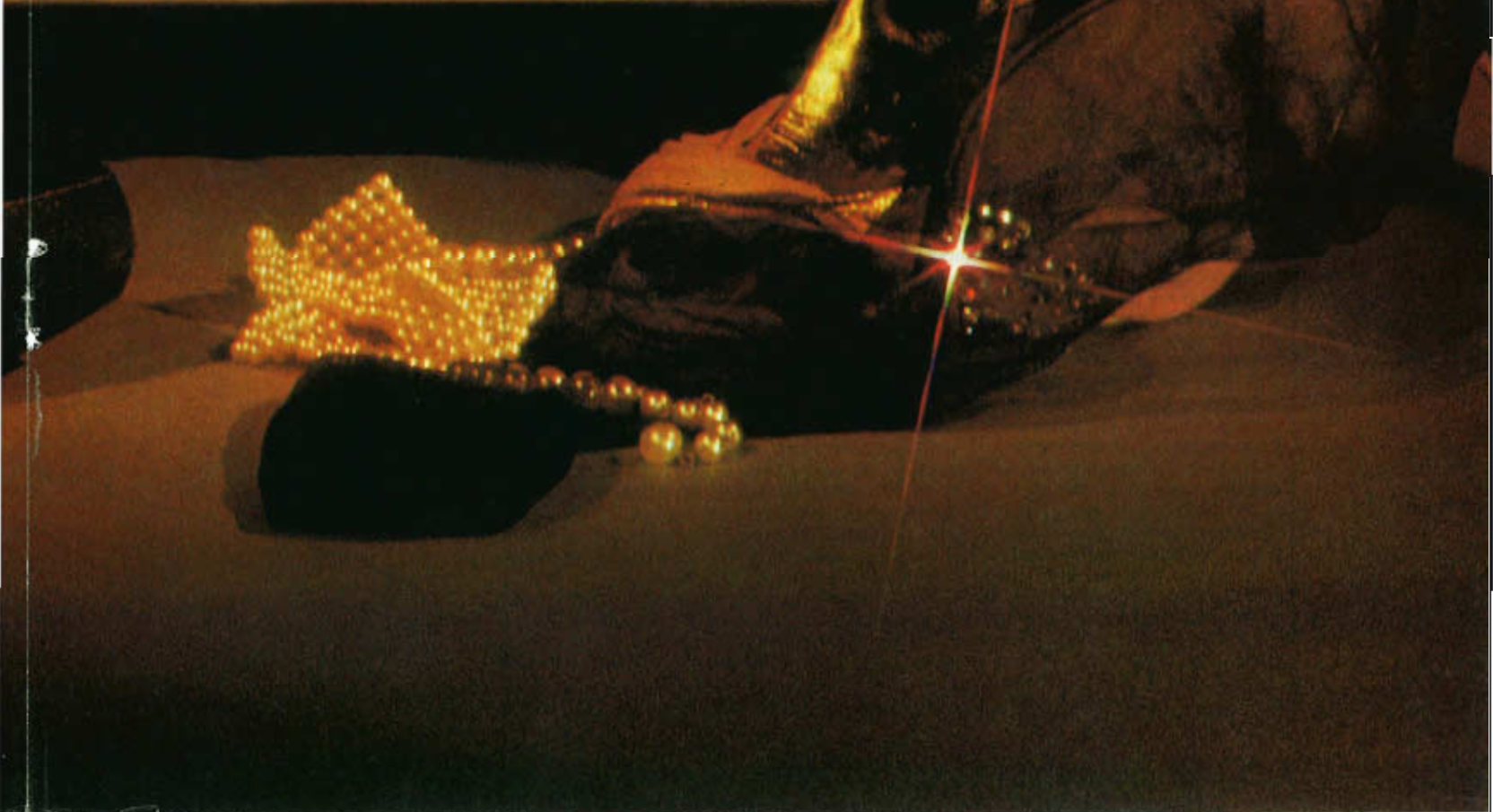


**BREAKER**

Will you  
wake them  
up







# Something

It was quiet in the radio shack, and the tree swished in the night outside. There ought to have been a suppressed humming of latent power from the banks of equipment — mostly Yaesu — on the bench, but there was none. Dials flickered occasionally, and indicator lights glowed, but apart from that it might all have been switched off.

Deep in stockbroker Surrey, poised over several hundred watts of radio power. It was all licenced Ham gear, but the tuning range enabled it to zero in on those naughty parts of the band frequented by illegal CB users.

We didn't wait long before a couple came up on the air, chatting inconsequentially about the weather, the dog's health and the Eurobore song contest etc.

Straight away we broke in on the conversation, announcing the fact that we were the Post Office monitoring service, and that they were about to be arrested, would they please switch off and remain where they were until the police arrived. They didn't quite know what to think, but their initial reaction, based on common sense, was one of disbelief; they were unimpressed, but bothered.

After a brief hesitation they decided to change channels. 'Let's go up to your birthday channel', said one, and it all went quiet as they turned their dials up a few notches. It turned out that one of them was born on the 26th of one month or another, because that's where we found them — channel 26. It only took a few seconds, with the aid of the scope, to pin their frequency down, and come straight into their conversation once again. Still announcing ourselves as the Post Office, we chided them for not doing as instructed and repeated the order to switch off and remain stationary.

This time they were definitely worried, and switched channels again 'to the number of my house'. He lived at number 36, this one, and the little blip on the scope played tell-tale the minute they started speaking. We told them that it was no good trying to get away and that they really should learn to do as they were told.

The other one lived at number 16, and after we found them there within seconds of their first transmission they got the message and went down, never to be heard again that night.

Some Ham equipment is very sophisticated, and tricks like that are dead easy with the right gear. A lot of people have got the right gear. Worse still, a lot of people have got the right mentality. In the very first issue of Breaker we investigated the situation on the amateur front, particularly looking at the anti-repeater groups in London and the surrounding areas. It was easy to see that the people who were involved with these groups had started off with a

reasonably defensible standpoint — they were opposed to the repeater stations which now proliferate — and were trying to get them scrapped. However as time went on their methods became more and more extreme; this may have been partly out of desperation but is more likely to have been because of the growing involvement of a number of goons who think they're jokers.

The idea of jamming the repeater frequencies was the beginning of it all and very easy it was too. It went from there to high-powered continuous music broadcasts, obscene and insulting conversations with serious Hams still trying to use the facility sensibly, for its proper purpose, and on into what amounts to open warfare. Tales of physical violence, petrol bombings and even gun-toting Radio Amateurs are not uncommon.

It seems that the people associated with all this are probably a small minority and it now seems that this small minority has found a new area of vandalism to move into, and is busy screwing up the pirate CB network. Much the same sort of jamming and messing around can be heard on 27MHz in some areas, and it is of course getting. CB generally a bit of a bad name.

This, however, is not the worst of it, although it's bad enough. The jammers are a group of people who play with radio sets. Their pleasure comes from being annoying by radio. Any radio, not just Amateur frequencies or CB. They are people who should rightly be abhorred by Hams and CB users alike. Unfortunately a rather distressing element seems to be creeping into the situation just lately, and it rather stems from the fact that the jammers are now operating on both 27MHz and 2 metres.

Many Ham operators have conveniently forgotten the fact that these animals began their distressing criminal activities on the Amateur bands, and are looking on them in completely the reverse way; they now tend to think of them as errant breakers who have strayed off 27 and come to play on 2 metres. The reason for this is partly to be found in the fact that the jammers have adopted CB jargon to a very large extent, and use the slang on 2 metres as well, even using CB-type handles on the Amateur wavelength.

It was, as we pointed out in Breaker 1, inevitable that a few of these turkeys would end up on 27, doing what they do best — mouthing mindless rubbish into the airwaves in the hope that someone somewhere will be offended.

We have also been bothered that a parallel to the American outbanders would eventually emerge in this country and give both the Home Office and the sensible breakers on channel a whole load of headaches. But at least the



outbanders have a reason for what they do, and one which may possibly be justified, at least in the States if not over here. Yet. And their biggest hope is that they'll be left alone; they tend not to bother anyone, especially not deliberately and maliciously.

But the prospect of the jammers is



# g in the air

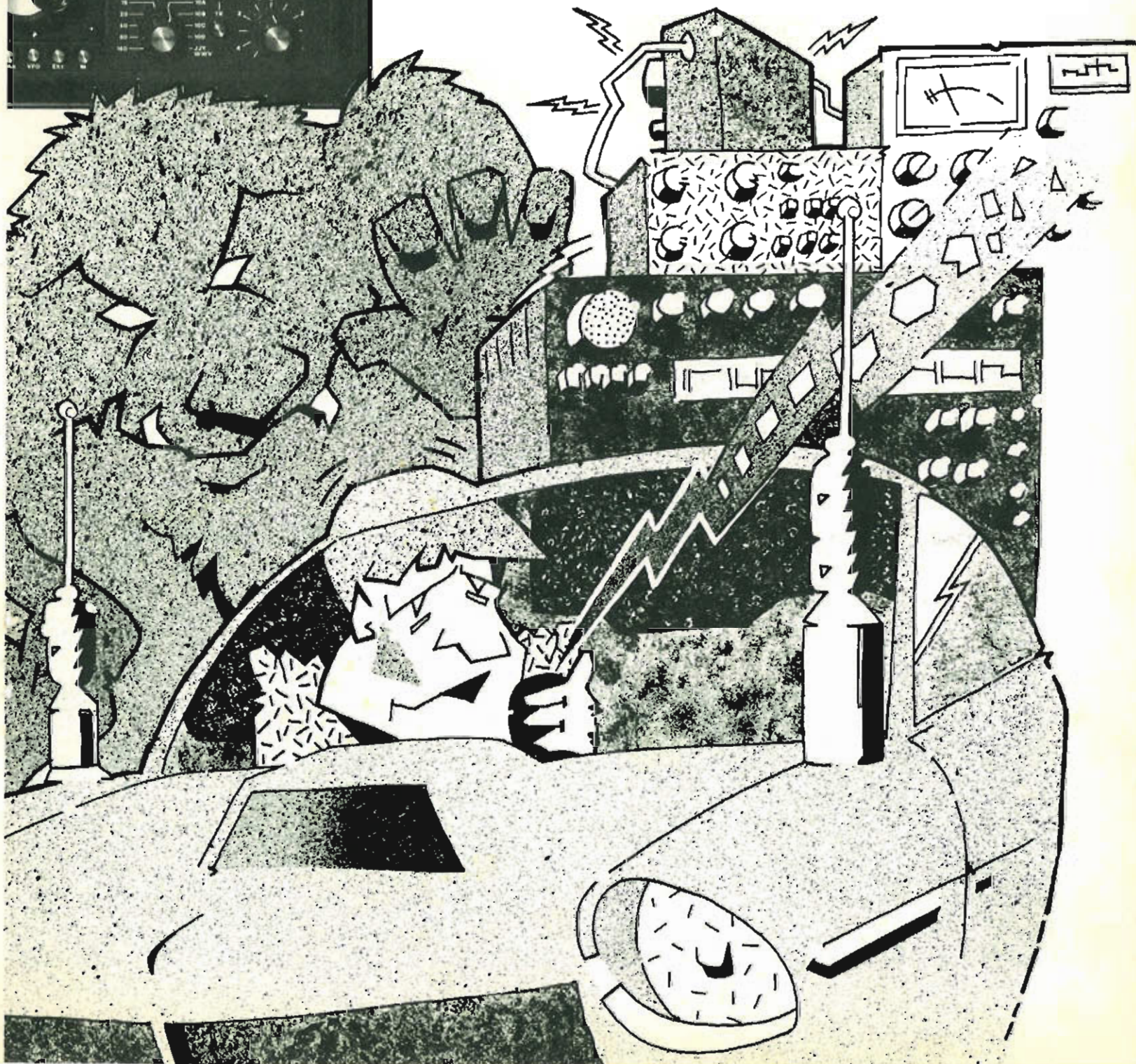


much less appealing, since their whole purpose in life is verbal and technical vandalism. Give the outbanders what they want and they'll go away; you can't do the same for the jammers because they don't want anything and they'll never go away. They'll just keep on keeping on if they've got half a mind. And that seems to be the primary qualification . . .

Even so the problem with the jammers wouldn't be so bad if it weren't for the reactions of a few people who

believe that they're responsible Radio Amateurs but in reality and practice turn out to be just as loutish as the jammers themselves.

One such person initiated a conversation with us not so long ago. He began on the offensive and continued aggressively throughout our discussion despite our efforts to calm him down. He was a licenced Ham he said, and unless we took steps to keep poxy CB users off 2 metres he wouldn't be answerable for the consequences. ▶



Having assured him that we personally were not in direct control of every breaker in the country, we asked him what his problem was. Poxy CB users, of course.

Apparently there has been a small group of individuals messing around on the frequency he uses and causing this verbal mayhem. The trouble is that they talk CB lingo and are also running 27MHz rigs, and they seem to alternate between high jinks on 2 metres and similar on 27MHz. For this reason our man was convinced that they were CB people not just animals, and that all users of 27MHz are equally culpable and responsible. If, he warned us, these few idiots don't get off his band then he'll get on 27. And with the equipment he's got, plus the power, it would be dead easy for him to jam 27 for hours at a time, possibly on several channels at once. It was, he said, our responsibility to get the loonies off 2 metres pronto, otherwise it would be all our fault if channel 14 became permanently unusable.

There are several disturbing aspects to this. First is his undoubted power to do exactly what he says he'll do, and second, the pea-brained mentality of anyone who is prepared to act in such a way. And thirdly, the fact that he almost certainly has a fairly substantial number of friends who think exactly the way he does, so he won't be alone.

What he was proposing was the commencement of a jamming war against 27 by Hams, all because of the activities of people who came from his bit of the spectrum in the first place anyway. They're probably people who failed the exam and didn't get a licence.

This particular chappie remained anonymous throughout the conversation. We said that we were worried about things like this and would like to look at it sensibly, do a feature on it in the magazine, and see if we couldn't get something sorted out before the

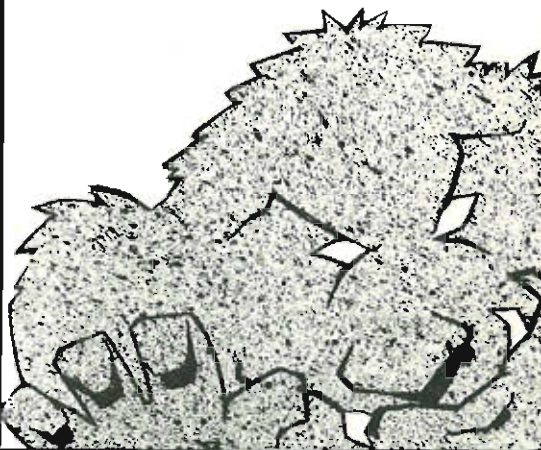
# Something in the air

whole situation became ridiculous. He agreed to write to us (and include, for our private files, an address where we could contact him if need be) and give us some dates and instances of loonies who were working both frequencies. He knew their handles, he said, because he'd heard them using same on 27. We said we'd publish it all and try to achieve some kind of armistice.

We never heard from him again. Didn't really expect to, as it happens. Don't know where he lived, apart from London, don't know his call-sign or anything about him. Except that he was more than slightly unreasonable, plus not overburdened with intelligence. Couldn't have been, or he would never have thought that jamming out 27 indiscriminately was going to solve anything, least of all the problems which have been affecting the Amateur frequencies for the past couple of years.

But he's out there somewhere, working himself into a frenzy, no doubt, and also probably beginning to dabble in radio warfare. Probably he's one of the growing bunch of berks pretending to be the Post Office monitoring service. Probably he's dreaming up even more annoying things to do on the CB frequency next time he hears a wally on 2 metres.

We assume that there's not much point in appealing for common sense? Before it's too late?



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# Easy as QSL

Hello fellow QSLers, many thanks indeed for all your kind letters and cards. By the time you read this I should have replied personally to each of you. I do welcome your letters especially if you have news or information of QSLing, new clubs opening, clubs closing, good QSLers, bad QSLers (is there such an animal?) and any little funnies that could make your friends smile, like the note at the bottom of a card I received from Germany "your QSL fried". Hope he meant 'Friend'!

Although, as I write this, we are still awaiting for the Government to announce 'that date', I am still sometimes surprised to receive QSL cards with the note 'please do not publish my address'. While I respect your wishes in this direction, I cannot personally see the point of circulating your QSL cards in Great Britain if you still wish to remain anonymous — seems a little pointless to me, still, each to his own.

Before we talk about 'The Best of British' QSLers, I must give a mention to overseas British QSLers: Martin Sherman, Postfach 277, 3250 Hameln 1, West Germany; and Andy McClelland, Kiplingweg 21, D1000 Berlin 19, West Germany. Martin belongs to the Hameln CB Club over there, and Andy breaks on Channel 5, 'The English Channel' in Berlin. Nice one, boys.

This month, I would like to say a big thank you to all those of you who over the past few months have QSLed me, and I am honoured to now have many of you as personal friends. I really do appreciate it. A special 'thank you' to the man who really got me hooked on this fine hobby, Britain's No 1 QSLer — Chris (Greenfingers) Hodgson of Tyne & Wear. We met through the now sadly closed 'Bandstand', which as you older ones will know was an 'underground' duplicated CB newsletter in the early days, sadly missed by us all.

For some time now, I have been very concerned at the potential rip-off that now exists within our hobby, and I have nasty 'vibes' that QSLing might not be missed. Judging by the number of British QSL Clubs that are springing up, I feel that we should all be wary as to which clubs to join.

I spent a long time on the telephone,

the other day, discussing this situation with Lez Carroll, founder and president of the English International DX Club, as featured in *Breaker 4*, and we are both of the opinion that QSLers should study exactly what you will get for your investment. For the normal £5 I feel you should get far more than just a membership card, certificate and unit number.

One new club I have just received details of charges £5 for just that and the rubber stamp is an extra £10. Knowing what these items cost, even allowing for the cost of zinc dies spread over the first fifty stamps, this sort of money takes a lot of verifying, so be warned.

Apart from the highly respected English International DX Club, only one other comes anywhere near value for money, and that is The British Concorde International CB-QSL Club. I am afraid the others have really got to pull their socks up. We will not only fight rip-offs on your behalf, but will name names — please let me know of your experience with QSL clubs, especially British.

I see a new word has crept into our dictionary: 'Scatter' or 'Floater' cards. These are the 'CB friend — please QSL' cards, nice to know a name has been put to them at last.

Following my astounding revelation that the 'Lucky 7', a free QSL club, was run by Rita Mandola of 604 Sizemore Street, East Gadsden, Alabama 35903 USA, last month, I have now received information that she has started a new free QSL club for the kids, called The Tweety Bird QSL Club. Membership fee is just five QSL cards plus three keys and one key chain or ring (you're not reading that wrong). Old or new keys are accepted. A great idea Rita, it's good to involve the kids.

I received my first QSL-chain letter last week. You know the sort of thing: send one card to the person at the top of the list, and put your name on the bottom, and in three weeks you will receive half a million cards. Or something like that. Well, this one came from Larry & Karen KGX 4758, PO Box 7721, Independence, Mo 64053, USA, and warned me that if I broke the sacred chain, a fate worse than death

**BREAKER**

**THE DUKE**  
President of  
BIG BEN D.X. QSL CLUB  
UNITED KINGDOM

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55's  
FROM UNITED

STATION 360  
Charlie Mobile

**The DUKE**  
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Thank you very much for your Q.S.O.

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73's

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SURREY.  
GUI 4 JQ

73's  
**Skylab-1**

Guy Howard  
& Norman Venn  
Kirkstall,  
Leeds 5  
Yorkshire  
England

**EAR BIRD**

would befall me — my mother-in-law would move in with me! Who am I to argue? I wrote back before their envelope had fallen on my front door mat!

Just once in a while, I get a QSL from someone who is special, and I feel I must share this with you. This particular letter and card came from Arthur Brodeur in the states, a really fine gentleman just 70 years young who, with his wife Florida, are both avid QSLers. I am sure they would really appreciate a QSL card and a picture postcard from you. Their address is: 6 Mount Saint, Charles Avenue, Woonsocket, R.I. 02895, USA and they have been ratcheting for 18 years now, so we are all novices. Give them my love, I am happy to be associated with the CB brotherhood when it breeds such nice folk as The Golden Eagle and The Golden Princess. Thanks Arthur and Florida.

Don't forget that South Africa, Switzerland, Hungary and most 'Iron

Curtain' countries prefer not to have any reference to CB on the outside of envelopes, and I must also ask you to remember that Belgium do NOT allow the addressee's name on the envelope. Don't ask me why, but you will get the envelope back if you do not comply.

I was browsing through my collection of QSL cards recently, and noticed the vast difference in quality, ranging from a straight photocopy to the most elaborate high-cost glossy card. Whilst a lot of people decry poor cards, please give the donor a little thought. You do not know his or her circumstances, or indeed their age, so spare just a little thought. I have a very poorly photocopied QSL from a 7 year old lad in Germany and, knowing he came from a family of very modest means, I really treasure that QSL.

Another treasured card is one I received from CB Station 'Malta 01' alias Manfred Kaub, An Der Liede 2, 6415 Petersberg 1, West Germany.

While it is home-made, it really is a magnificent collage.

Those of you who have the unfortunate pleasure(?) of knowing me will already be aware that my other love is ambulance work, and through QSLing I have always tried to contact fellow ambulance officers and had not had much success, but recently I contacted two within 24 hours. One is John Moynihan of 10 The Crescent, Springure, Queensland 4722, Australia, and the other is Cool Aid, Alistair Southby. His address is on the QSL list attached. This illustrates just a little item of interest — put your other hobbies and pastimes on your QSLs, it's surprising what can develop!

Next month we will have a look at QSLers from the USA, and the very colourful Running Bare and Sundown QSL cards. Until then, keep it clean and catch you next issue of *Breaker*.

**THE MEDICMAN**

### THE BRITISH CONCORDE INTERNATIONAL CB-QSL CLUB

187, Walton Road, East Mosley, Surrey KT8 0DY.

The launch date for this new CB-QSL club was originally planned for May 1, but due to numerous requests membership commenced in early April. It is planned to administer this as a proper CB-QSL Club, and a quarterly newsletter is envisaged. All members will be invited to submit articles and participate in this.

The club was founded by the president, 70BC 001C — Julie Newbold, who is ably assisted by her mother, Sally, who will be responsible for membership administration.

A good value membership package is offered for the fee of just £4. (£5 overseas) and comprises of at least:

- 1) Club membership card.
- 2) Club certificate.
- 3) Club rubber stamp with club crest.
- 4) Club ID wallet with club crest.
- 5) Club QSL labels.
- 6) Club pen.
- 7) Club newsletter, issue 1 (with CB Codes).
- 8) Exchange QSL cards.
- 9) Club QSL cards.
- 10) London tourist information.
- 11) Invitation to other recommended clubs.
- 12) List of QSL addresses.
- 13) XYL unit number (if requested).

14) Club key-ring.

15) Other miscellaneous items as available.

Application forms are available upon receipt of a stamped addressed envelope and further club items are in the course of preparation — cloth patches, tee shirts, caps and sweatshirts. All should be ready by 'early Autumn' (sounds familiar).

This is the only British club recommended by the well established English International DX Club, and the membership package is described by the EIDX president as 'remarkably good'. This looks set to be one of the very top CB-QSL Clubs in the world, well worth joining.



## BRITISH CONCORDE INTERNATIONAL QSL-CB CLUB

70 BC 001



PRESIDENT and FOUNDER  
**JULIE (Peanut) NEWBOLD**  
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 East Mosley,  
 Surrey, KT8 0DY  
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100%

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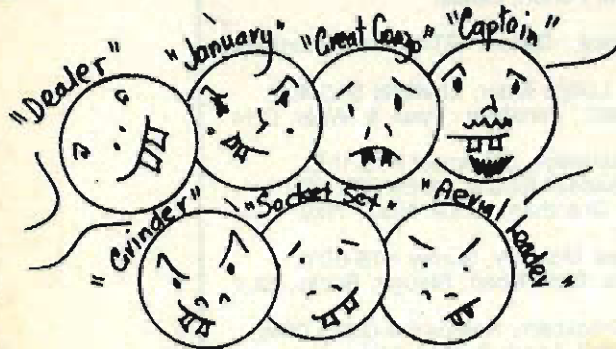
BRITISH QSL LIST

HANDLE	OPERATOR	ADDRESS
GREENFINGERS LIMA CHARLIE 1	Chris & Alison Hodgson Lez Carroll	3 West Street, New Silksworth, Tyne & Wear SR3 1EU 225 Arnold Street, Bolden Colliery, Tyne & Wear NE35 9BA
NIGHT OWL	Ian & Sylvia Morrison	89 Hareydene, Newbiggin Hall Estate, Newcastle NE5 4QH
ROAST BEEF TOMCAT FIRECRACKER ALPHA FOXTROT ROLLER COASTER	Ted Morris John Howard Brian Newman Andy Fielding Raymond C Jones	140 Astwood Road, Worcester 108 Keldholme, Wildrings, Bracknell, Berks. 8 Cole Gardens, Cranford, Middlesex. 24 Latimer Road, Norwich, Norfolk. 65 Breeden Drive, Curdworth, Sutton Coldfield, Birmingham.
GOLF SIERRA HIGH ROLLER THE DUKE WHISKEY BRAVO UK 336 DT PINBALL WIZARD	Gordon Spiers Barclay Miller Jim Glavin Roger A Cox Graham & Olwen Rose Andrew Graham	8 Ryan Hill, Innermassan Croft, Stranraer, Scotland. 316 Garth Road, Morden, Surrey. 14a Bridge Street, Godalming, Surrey. D.A.D., Checketts Lane, Worcester. 8 Milton Close, Beechwood Park, Worcester WR3 8EE. 45 Seedhill Road, Paisley, Renfrewshire, Scotland PA1 1SD.
NEPTUNE 70W379 SKYLAB 1 70TRC343 MOONRAKER MIKE ECHO CHARLIE	Roger Carr Robin W Brett Mike Russell Mike Cooper	3a Barnard Gardens, New Malden, Surrey. 21a Falcon Road, Guildford, Surrey GU1 4JQ. 13 Thorn Close, New Malden, Surrey. Southfields Bungalow, Guildford Road, Broadbridge Heath, Horsham, West Sussex RH12 3PW.
BRS 19945	Jon Egerton (Blind Operator)	36 Meadow Walk, Pensby, Heswall, Wirral, Merseyside LS1 6XU.
CATFISH WHISKEY DRINKER & DYNAMITE KID 29WW77	Les Newport Alan and Margaret Greathead  Joe Crawford	6 Howard Street, Oxford OX4 3BE. Tree Tops, Park Lane, Forton, Lancs.  36 Sydenham Avenue, Belfast BT4 2DR, Northern Ireland.
TROUBLE DARK STAR	Steve South David Heddle	381 Redmires Road, Lodge Moor, Sheffield S10 4LE. 40 Whitefield Crescent, Peshaw, Tyne & Wear DH4 7QT.
JOLLY GREEN GIANT WINDSURFER COMMON RIDER DT510 WINDSURFER WB106 PEANUT BRAIN 70BC001 VOYAGER 1 & 2	Tony Whittaker Darren Bird D. Green John Julie Newbold Dave & Jill	35 Thornton Gate, Cleveleys, Blackpool FY5 1LE. 11 Newark Road, Breadsall Estate, Derby DE2 4DJ. 109 Stamford Street, Grantham, Lincs. NG31 7BS. PO Box 8, Worcester. 187 Walton Road, East Molesey, Surrey KT8 0DY. 26 Salt Hill Mansions, Bath Road, Slough, Bucks. SL1 3XN.
COOL AID EARLY BIRD REBEL 1748 SIERRA NOVEMBER REDSTART	Alistair Southby Gary Howard Phillip Clarke Miss S Newlands Jim Southby	25 Parkhill, Church Crookham, Hampshire GU13 0PW. 6 Norman View, Kirkstall, Leeds 5, Yorkshire. 329 Brocklesmead, Harlow, Essex CM19 4QE. Wesgar, Kirkwall, Orkney Islands. 25 Parkhill, Church Crookham, Hampshire GU13 0PW.



BRITISH QSL CLUBS	BRITISH CONCORDE INTERNATIONAL CB-QSL CLUB	BIG BEN DX QSL CLUB	BRITISH BULLDOG INTERNATIONAL	SCOTTISH DX QSL CLUB
ADDRESS:	187 Walton Road East Molesey Surrey KT8 0DY Great Britain	14a Bridge Street Godalming Surrey GU7 1HY Great Britain	23 Russell Ave Colwyn Bay Clwyd LL29 7TR Wales	45 Seedhill Road Paisley Renfrewshire Scotland
MEMBERSHIP COST (UK) (Incl Postage) Contents:	£4.00	£5.00	£4.00	£5.50
MEMBERSHIP CARD	YES	YES	YES	YES
MEMBERSHIP CERTIFICATE	YES	YES	YES	YES
CLUB QSL CARDS	YES	NO	YES	NO
RUBBER STAMP	INCLUDED	INCLUDED	NO	NOT INCLUDED
	COMPLETE	RUBBER ONLY		£10 EXTRA
CLUB ID WALLET	YES	NO	NO	NO
CLUB LABELS	YES	NO	NO	NO
CLUB PEN	YES	NO	NO	NO
CLUB DX SHEETS	NO	NO	YES	NO
EXCHANGE QSL CARDS	YES	YES	YES	YES
TOURIST INFORMATION	YES	NO	NO	YES
CLUB ROSTER	YES	NO	YES	NOT INCLUDED
		NO		£1 EXTRA
CLUB NEWSLETTER	YES	NO	NO	NO
PIN ON BADGE	PLANNED	NO	NO	NO
SWEATSHIRT	PLANNED (JUNE)	YES	NO	NO
		EXTRA £8.25		

# Easy as QSL



70-W-541

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Paisley,  
Renfrewshire,  
Scotland,  
PA1 1SD

**73's**

To Radio **THE MEDICMAN**.....

Confirming our 27 mc/s contact **SWAP.**

Date **23.10.80.**

Time **13.30**...

**KEEP IN TOUCH**

International X-QSL Club

Unit # **041 QB**

New York City

Please O.S.L. **SBS 108 SLOB 339**

My C.B. Handle

**JOHN HOWARD**  
108 KELDOLME  
WILDRIDINGS  
BRACKNELL, BERKS  
ENGLAND

**W340**

BRIAN NEWMAN  
8 COLE GARDENS  
CRANFORD, MIDDXX  
ENGLAND TW5 9RJ

To Radio .....

Confirming our 27 mc/s contact

Date **15. OCT. 80**

Time .....

My C.B. Handle

**FIRE CRACKER**

Please O.S.L.

BRITISH OPEN CHANNEL RADIO STATIONS.

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AND ALL THE GOOD NUMBERS FROM

**HIGH ROLLER**

TO STATION \_\_\_\_\_

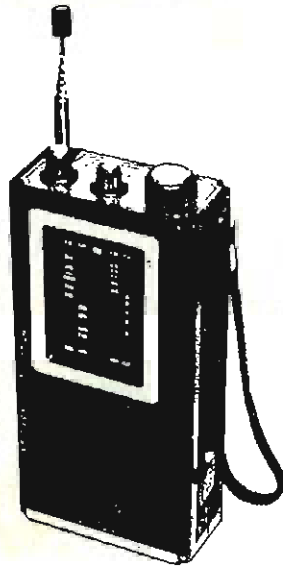
DATE \_\_\_\_\_

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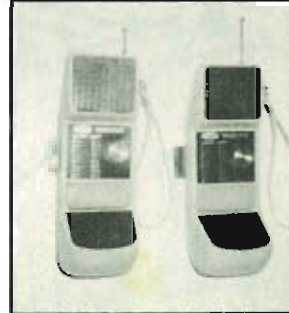
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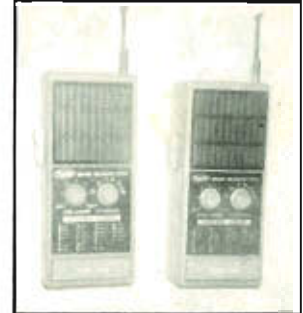
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# Riggers of war

The likelihood of a nuclear war, and our recovery from it, might seem an unusual subject for Breaker, and some of you might consider it a little glib of us to suggest that CB can play a useful part in a society torn apart by a holocaust. But copying your old buddies isn't such an inappropriate pastime in those circumstances and, at the risk of sounding over dramatic, it could mean the difference between life and death.

Have you got a nuclear shelter in your back garden? It's unlikely you have because there are relatively few in this country. There doesn't seem a lot of point spending thousands of pounds on something which you don't expect to use, does there? And it would make a dreadful mess of the lawn. Successive governments have avoided the subject like the plague, which is a very appropriate simile when you think about it. But we all tend not to think about it. The present Government has no plans to provide public shelters and has produced a pamphlet suggesting we hide under the furniture surrounded by sandbags. Is that enough?

Switzerland, Sweden, Finland, Norway, some European countries and the Soviet Union don't think so. They've been preparing their civilian population for nuclear war since the 50s. The Swiss and Swedes have fully equipped shelters for every citizen and they all attend training classes in emergency procedure. Do they know something we don't? No, we just choose to ignore it. Maybe if we all think it's too horrific to actually happen, it won't. Then again...

Or maybe you maintain that nuclear war would wipe us all out anyway, so what's the good of even thinking about how we could manage after The Big Bang? But people are becoming more aware of the nuclear threat, as the resurgence of groups like the CND

demonstrates. More people ARE buying shelters, and before you say they won't offer enough protection, remember that people were saying the same thing about the shelters constructed before the Second World War. Some local organisations are looking into the possibilities of adapting existing structures to provide public shelters. And if you don't like the idea of using disused railway tunnels, which way would you run, come the crunch?

The experts believe you will, at least, have time to run, if you've got somewhere to run to. They say that the next war will be fought with conventional weapons at first, giving most of us the chance to crawl into our shelters. Or under the table. There's been a lot of publicity given to the shelters designed for local authority use. It might seem rather undiplomatic to give them protection without providing for the rest of us but the Government argues that vital rescue and repair operations will be co-ordinated from these centres, so I suppose it makes sense to start there. Providing it is just a start.

After the explosion, survivors will have two additional phenomena with which to cope. First is fall-out, caused by surface debris being drawn into the mushroom cloud, cooling and then dropping to earth as radio active particles. The heaviest fall-out will be immediately surrounding the explosion but finer particles will be carried on the wind to fall further afield. The second problem is more fundamental to the effective operation of rescue and emergency teams, and this is where some experts believe CB could come into its own.

A sudden burst of electromagnetic energy is released at the source of a nuclear explosion, with an effect similar to lightning but many thousand times more powerful. This is known as the ElectroMagnetic Pulse (EMP) and any short unearthed length of wire can act

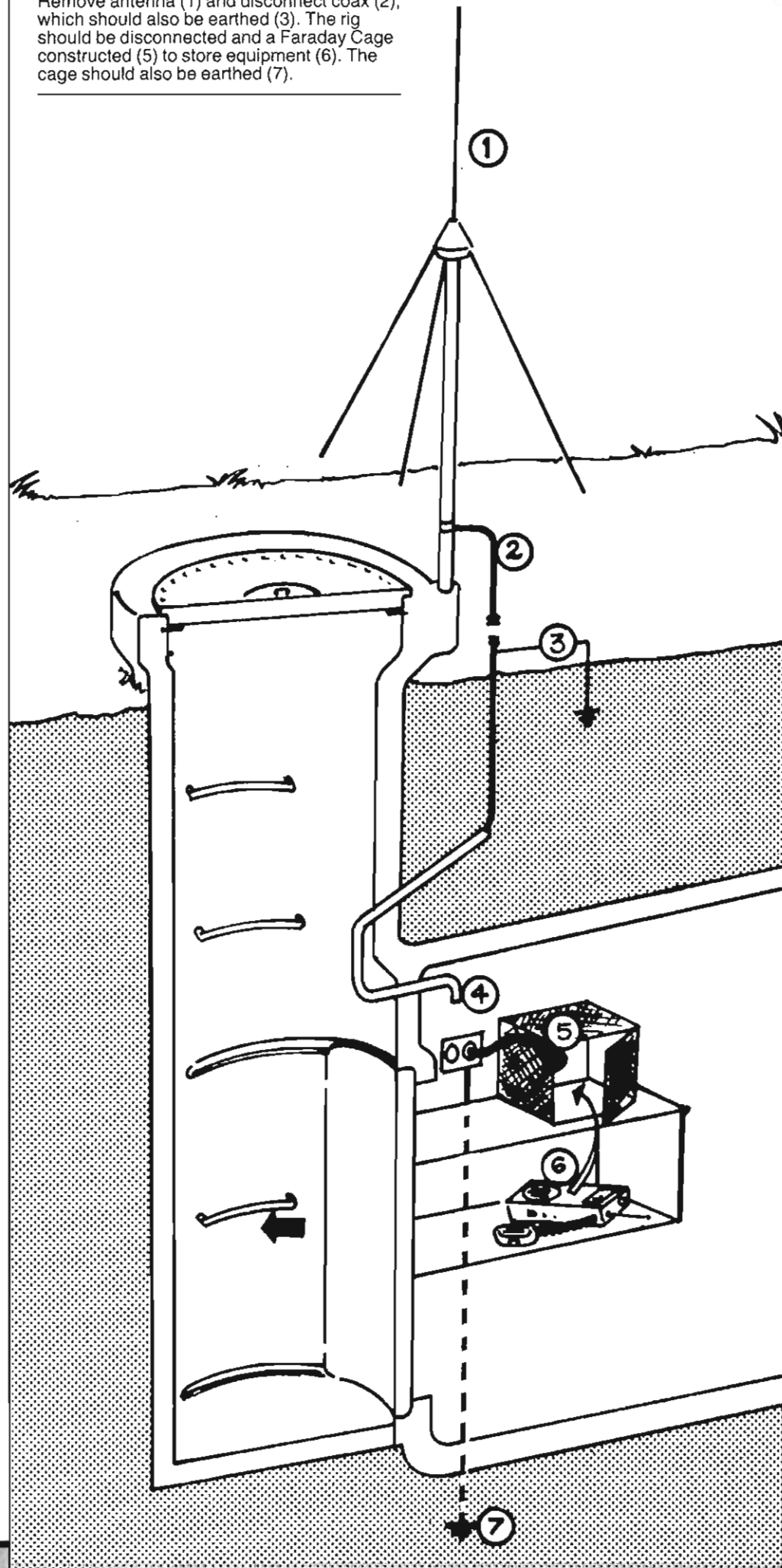
as a collector thus rendering electrical and radio equipment useless.

Now, assuming shelters are available, or you've taken the Government's advice and cobbled something together indoors, you are going to be completely cut off from the outside world. If you can use one of the pukka jobs, even the air will be filtered and supplies will be limited, so you don't want to stay in there any longer than you have to. On the other hand, neither do you want to go out too soon. You want to know what's going on outside. Or if there's any outside left. The Government's advice is to take a transistor radio in with you to receive medium wave signals from their wartime broadcasting service, which is protected from the effects of the aforementioned EMP. They further suggest that to protect the tranny itself, the aerial should be retracted. But since many MW radios use integral aerials, this might not be possible. And even if you could receive their broadcasts, you still couldn't get word to them for assistance or advice.

What's needed is a two-way radio system readily available to, and easily operated by, the man in the street. Or nuclear shelter. Sound familiar? If you had CB radio you would no longer be cut off. You could receive regular updates on the position outside from the Government and local authorities, whose own telephone link would have been wiped out by EMP. However, the Home Office tell us they have no plans, at this time, to use CB in such an emergency, although they say they constantly review the situation.

Local authority civil defence groups do seem to recognise the potential of CB and have welcomed approaches from the monitoring group REACT and the hams' equivalent RAYNET (Radio Amateur Emergency Network), who have both offered their help in the event of any local or national emergency. But before we continue with the part these

Remove antenna (1) and disconnect coax (2), which should also be earthed (3). The rig should be disconnected and a Faraday Cage constructed (5) to store equipment (6). The cage should also be earthed (7).



organisations might play, let's return to the individual breaker. Those of you who are too clever for your own good will already be planning to write to us asking what chance has CB got against EMP? Well, put away your Parkers because I'm going to tell you.

To provide some degree of protection, the first move is to disconnect the antenna and store it until it's needed, because it's just what the EMP charge is looking for. Likewise anything else that can be removed should be: microphone cable, power lines, amplifier and so on. All these components should be connected for use and disconnected immediately afterwards. A conventional lightning arrestor should also be wired into the antenna coax, connected to an earth rod by a thick copper wire. This will also give you protection against conventional lightning which, presumably, doesn't stop venting its fury just because there's a silly old war on. Ideally, all electrical equipment — with the exception of things like dishwashers, which might not be considered vital — should be shut away in a Faraday Cage. This is constructed of thin metal gauze and is also earthed to ward off the dreaded EMP. It might give some protection to your transistor radio too, so you could get the best of both worlds. If you haven't already entered the next one.

EMP isn't the only nasty trying to cut off your communications. And before you jump to the obvious conclusion, this is after legislation, remember. The first thing that will do its best to waste all the precautions you've taken is the blast effect itself. Assuming you're safe inside the shelter, the rig will be too, and if you're not, the rig won't be much use to you. But the antenna is at risk and should, ideally, be dismantled and stashed inside the shelter, or wrapped in waterproof material and buried on the surface. Also originating at the blast is the seismic effect, which is vibration and could shake equipment off shelves and damage the shelter structurally, perhaps severing the aerial coax. Wrapping the rig in protective material or strapping it to the shelf and checking the cable and making any necessary repairs should get you through.

Now, we're not suggesting that you dash out now and bury your rig, just in case. Although some might think that a good idea. Neither, as I said before, do we want to be accused of scare mongering but it does show that CB can be useful in any emergency. And some

of those with shelters are already seriously considering installing a rig. I have a feeling we'll be hearing more on the subject very soon.

REACT have been establishing links with emergency organisations for some time now, not that they anticipate a nuclear attack, you understand, but in order that they can work with them during peace time and in the event of any local or national disaster. The police have said they are keen to develop some form of working relationship and two REACT officers will have met with the secretary of the Association of Chief Police Officers' communication committee and the Home Office director of telecommunications by the time you read this.

They have also received a 'favourable response' from regional and county civil defence authorities throughout the country. So favourable, in fact, that REACT have replanned their own regions to coincide with those of the civil defence groups, which is quite a coup for REACT. In the event of a major local or national emergency, REACT could offer a field-based communications network to assist the authorities in their work. If, for some reasons, conventional communications had broken down, REACT home base and mobile monitors could provide a back-up service to the emergency organisations' own systems.

Links with civil defence organisations at local, county and national levels, will also mean a closer liaison with all the emergency services who make up the committees. Representatives from some of the county groups have agreed to sit on the newly formed Emergency Action Advisory Committee, from which Inspector Jim Campbell will report to the REACT national committee.

REACT has met with RAYNET to discuss working with the radio hams' own emergency network, again in conjunction with the authorities.

Meanwhile, new members are flooding in and membership doubled in five weeks. Many of them are already monitoring the AM service and although the organisers cannot let them use the organisation's name while they are operating illegal equipment, REACT recognise there are well over a million rigs in the country and many are prepared to take the risk of prosecution to monitor channel 9 now. After legislation they will become official REACT monitors. But there's nothing to stop you becoming a member now.

# Riggers of war

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## Dash good idea, what?

When you think how sophisticated in-car entertainment has become; how neat cassette players, boosters and speakers are now, and that car-to-car communication has long been a reality, it's ironic that information relating to crucial aspects of a truck's workings is still conveyed by inaccurate little magnets dragging a needle round a dial.

A car really only needs a speedometer. It's useful to have a little more information — how many miles you can go on your remaining precious petrol — but fuel gauges are notoriously inaccurate anyway. An ammeter or ampere-meter is full of bad news; either everything is OK or you are screwed because no way can you fix alternators or solid state circuits. With oil pressure, either you've got it or you need a rebuild and there's nothing more depressing than the sight of a sagging oil pressure needle. But the truck driver needs to know.

There are air pressure gauges, sometimes as many as four, and since the brakes depend on that pressure, they are certainly essential. Battery charge is also important, you try bump-starting a 32 ton rig and you'll know why — you have to do something fast if its charging goes. Rev counters, or tachos, are essential for best performance but more important for optimum fuel economy. The speedo/tachograph is a legal requirement so you have to have that. Temperature and oil pressure are crucial on a big turbo

engine — that sort of torque could cause a big bang if things went wrong. And big bangs mean big money.

Don't forget that although truck engines seem quite low stressed compared with cars — say 320bhp from 11 or 12 litres for the truck and 60 to 100bhp from just 1.6 litres for a car — they are usually driven much harder for longer periods than the average Marina.

At the moment, all the information needed to protect this very expensive truck motor is displayed on a dial, almost certainly designed by a graphics man and not an engineer. And when there's eight instruments, one of them a bloody great five inch speedo, it's difficult to arrange them in such a way that they are easily seen by the driver and are not



read in bright sunlight without problems but these little guys really need to be in shady little nooks to be easily read.

LCDs are Liquid Crystal Displays, as used in digital watches and calculators. These work, not by magic, but because of the properties of a liquid sandwiched between two pieces of polarised glass. Polarised glass only allows light waves travelling in one direction (up and down or side to side) to pass through it. When an LCD instrument is switched off, light goes through the front polarised glass, through the liquid through the back glass, bounces off a mirror-type backing and comes out again,



confusing or ambiguous. This is where electronics and even the good old micro-chip can be very useful.

There are at least four or five different electronic techniques for information displays: LEDs, LCDs, VFDs and CRTs.

LEDs are Light Emitting Diodes, usually used either as little sticks like on the older style digital watch, or as a dot matrix array. Gallium Arsenide Phosphide light emitting diodes giving an alpha numeric display might sound a bit technical but it's actually just numbers or letters made up of lot of little dots. Circular or analogue-type speedos can be made up from the dots (normally red or green). Most experts now believe that speedo information is best shown on a circular display, which is quicker and more accurate than reading or misreading a number. Disadvantages are, at present, cost and brightness. The old fashioned needle type display can be

so the instrument looks light or nearly white.

When a current is passed through a section of the liquid, the liquid becomes polarised in the opposite direction to that of the glass and as no light gets to the mirror, none is reflected and the area looks black. Good, eh? Next time you sit on your polaroid sunglasses, put one lens in front of the other, rotate one and the world goes black.

This type of instrument needs to be illuminated at night and that can look a bit cheap. Developments are underway to illuminate through the rear mirror which may be better.

VFDs are Vacuum Fluorescent Displays, like you get in modern clock radios. In a digital clock of this type there's a large flat vacuum tube with a load of wires going into it connected to little elements which fluoresce when a current passes through them. The problem here is that there is a physical limit to how big



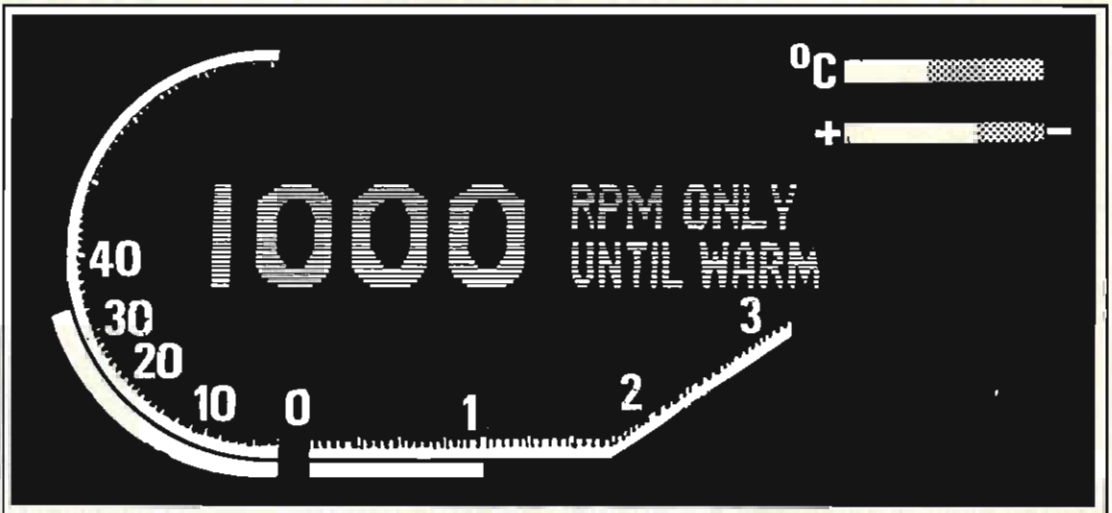
# HAVIN' ASS



these tubes can be made, and the cost of a unit with lots of information display gets pretty steep. Hundreds of pounds at the moment.

Also these things are not as bright as they appear at home. Drag your clock out into the garden and you will see the problems. If you brighten things up for daylight it gets a bit dazzling at night, and vice versa.

And so to CRTs, Cathode Ray Tubes, just like TV, Ceefax and Space Invaders. As you well know, you can do anything on a TV tube, so pressing a switch could bring up a display of ten important items of information, and impending disasters could override everything on the screen to say "STOP, no water" or



something similar.

A black and white tube, with coloured overlays, as used on Space Invader machines, would do the job and keep the costs down. This is probably the most serious proposition for future instrumentation, although the cost of the programme, or software, is high at the moment.

Eventually, it should be possible to design your own

instrumentation layout and feed that into a microchip or two to produce a personalised information system. Or maybe you will be able to visit your local Bedford dealer, for example, and get a European information programme — speed in kilometres, fuel in litres, air pressure in Kgs and so on. Maybe even a little micro-fische to go with your micro-chips.

Colour pic shows the state of the art to date. Graphics are screened onto a thin film sandwich over separate instruments. Pressure sensitive switches are mounted between the two layers.

The illustrations: on opposite page, LED fuel gauge readout (top) and LCD oil temperature display; on this page, VFD speedometer (left) and CRT information system.

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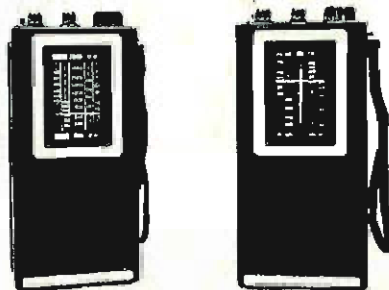
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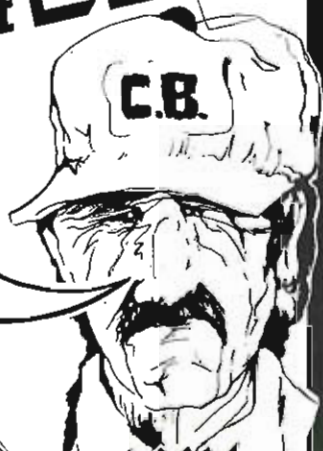
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# AIRWAY



Breaker deadlines being what they are, I'm writing this just before issue No 5 goes on sale. How are we supposed to develop any degree of editorial continuity operating in a time warp? It's like writing with jet lag, but we all have our crosses to bear — you have to put up with me after all — so I'll soldier on regardless.

What you know now that this issue is on sale — but which you don't know, when I'm writing this — is that we ran a blurb in this section asking for club news/gossip/rumours/slander. The problem is that we haven't had time to include the response from that in this issue. OK so far? Logical really.

But we have faith here at Breaker. We know it's all on its way to us in the post. We know you're going to send us everything we need to know as soon as you've finished reading this. Aren't you?

We also know that many of the clubs are newly formed and might not have produced a magazine or newsletter yet. But you're all doing something. I know that. Or rather I don't because you haven't told us yet. That's in the post, too.

So, for those of you who missed last month's issue, we want any club news and details of your local calling channels. And if you're not entered in the listing yet, well . . . goes without saying. The rest is up to you.

The ever industrious Telford CB Radio Club can now boast an MP in their membership. The club invited Warren Hawksley, MP for Wrekin, along to a committee meeting and he has agreed to urge the Government to reveal details of the announced FM service. He was given life membership of the club, which is still campaigning for a 40 channel AM service . . . There must have been a lot of busts in the Abingdon area. We've just heard from the local club who call themselves the Gaol Breakers. Maybe we can get the inside story. . . Had a note from the Rainbow Breakers CB Radio Club in Northern Ireland, who say: "In the special

circumstances in Northern Ireland, we feel we are bringing the two sides of the community together — that's why we use as our crest, a rainbow joining the two churches." A new twist on 'Breakers Unite', perhaps . . . More news of club charity work. The West Glamorgan Breakers Association have handed over £625 raised by the members. The first pic shows £475 being handed over for the Dewi Thomas Phonic Ear

appeal and the second, £150 going to the Spina Bifida Unit at Morriston hospital . . .



Got a note here from the MidKent CB Club, who meet every Sunday at the Queen's Head Hotel in the High Street at Maidstone. They've got a full social programme and to prove it they've sent us a pic of a fancy dress party. At least I hope it's a fancy dress, or they've got some very unusual members . . . Also busy are the Warwick and Leamington CB Organisation. Night-time hunts, carnival parades and raft races are all in the diary for their 500 members.

**BREAKER**

OK, so you know what clubs are around, and where. But when did they get off the ground? What are they up to? Where are they going? These and other important questions are answered by some of you who send in detailed notes on your clubs, but as the club list is already threatening to take over the magazine we obviously can't include more information there. Snippets of gossip go into the news section, but we can't give complete club profiles there either. So what do we do? Simple. We start up a new regular feature, giving the run down on a club each month. We'll never get through them all — they're still flooding in each month — but as we go along it should prove interesting to potential club members, members of other clubs and those planning to start a club of their own.

As we sat in the lonely Breaker garret at Link House wondering where to start, we had a call from Motorola of the 27 Club, who meet at the Saxon Tavern, in Southend Lane, Catford, every Monday night. Come along on Monday, he said, we're having a drag contest. So we did. Not in drag though, I hasten to add. Although with Lawrence, who took the pix, it's always a bit difficult to tell.

With membership knocking 3,000, the 27 Club reckon they're probably the largest in the UK — and that means plenty of ideas for events and plenty of support for them when they're staged. The idea for the drag contest came from the members (no pun intended) after a Miss 27 Club competition, held a couple of weeks earlier. The original event was a great success and they hope other clubs will put forward finalists to compete in a national Miss CB contest. Clubs interested in taking part can send details to us and we'll pass them on to the 27 Club.

Trying to describe the drag contest in words would be a torturous exercise, so I'll

leave it to the pictures and your imagination and just say, it too was a great success. And I'm not one to gossip, but the editor of CB Gazette danced with the winner.

The club was formed last May and every membership card holder is a bona fide breaker, known by his or her (or it's) handle. In fact, only guests signed in by a member don't need handles and all new members have to be vouched for. So despite the enormous membership, the atmosphere is friendly and relaxed. They've pledged their support to THAMES, the emergency monitoring group, and £1,000 has been handed over to buy . . . er . . . equipment. The club funds are still healthy enough to help out its members and if a breaker is busted the club will pay the fines. Last year, they paid out £1,200 from club funds to finance a river cruise up the Thames, the members themselves contributing a total of just £100. And a Club 27 banger racing team should have been formed by the time you read this, so look out for antennas next time you attend a meet. Donations are also made to a number of charities.

President and chairman, Microdot, sits on the United Kingdom Citizens Band Federation (UKCBF), an organisation recently set up by club leaders to fight for 27AM as one group, look at the political aspects and generally administer CB in this country. Fighting as breakers for breakers, is how Microdot describes it, and I can't do any better than that. "If the Government just granted an amnesty, they could make about £12 million from licence fees and a further £8 million in duty. How can they afford to miss that sort of help for the budget?" he asks.

If you want to join the 27 Club you will, as I've said, have to be vouched for, so arrange a focal eyeball with someone who's already in. It's well worth the effort.



**BREAKER  
BREAKER  
I'M GONE**



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 c/o 3 Thursby Road  
 Highcliffe  
 Christchurch  
 Dorset BN23 5PA

**Beech Breakers Club**  
 123 Willingale Road  
 Loughton  
 Essex

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

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

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

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

**Bottle City Breakers**  
 The Griffin Inn  
 Peasley Cross Road  
 St Helens  
 Lancs

**Boulevard Breakers Club**  
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 Glasgow G52 1ET

**Bourne End Breakers Association**  
 Fridays at  
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 Bourne End

**Bournemouth Independent Breakers Association**  
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 Coach House Motel  
 Ferndown

**Bracknell Breakers**  
 Every Sunday at  
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 Bracknell  
 Berks

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 Napier Barracks  
 BFPO 20  
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 Carshalton  
 Surrey

**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**  
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 Headley Park  
 Bristol  
 BS13 7LU

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

**Anglia Breakers Club**  
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 Tavern Street  
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 Freemantle 6160  
 Western Australia

**Barnet Breakers Club**  
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 Herts



**Broadland Breakers Club**  
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**Bruggen Bandits CBC**  
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West Germany

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Radio**  
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Connel  
Argyll PA37 1QJ

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Gabalfa  
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Larbert  
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Middx HA2 9BW

**CB-NE**  
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Sunderland SR3 1EZ

**CB Radio Action Group**  
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Glamorgan

**Cheltenham Breakers Assn**  
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Cheltenham

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Sussex

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Horseferry  
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**Clog Town Breakers Club**  
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Astley Bridge  
Bolton BL1 6PY

**Clyde Coast Breakers**  
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**Clydeside Breakers Supporters  
Club**  
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North Wales

**County Area Breakers Club**  
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Martholme Grange  
Altham  
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**Crewe Breakers Club**  
1 Main Road  
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**Derwent Valley Breakers**  
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Stanley  
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Lanchester

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

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**Dragon Breakers Assn**  
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Good Buddies Assn  
PO Box 2  
164 Corn Exchange Buildings  
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**Freedom Breakers International**  
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Club**  
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Glasgow G33 4RY

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Mille-of-Beath  
Cowdenbeath  
Fife

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59 Jasmine Terrace  
Aberdeen  
Scotland

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

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

**Grass Court Breakers Club**  
Haydock  
St Helens

**Harrow and Wembley CB Group**  
7 Sandringham Crescent  
Harrow  
Middlesex

**Hazard County Breakers Club**  
22 Radcliffe Avenue  
Chaddesden  
Derby

**Highland Breaker Club**  
4 Corbett Gardens  
Ardersier  
Inverness IV1 2RY

**Hucknall Welfare Breakers Club**  
Hucknell and Linby Miners Welfare  
Portland Road  
Hucknell  
Nottingham

**Independent Breakers Assn**  
113 Biscot Road  
Luton

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

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

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

**Kings Norton CB Club**  
Poste Restante  
GPO  
Lisburn  
Northern Ireland

**Laker Town Breakers Club**  
Every Tuesday at  
The Cornish Man Hotel  
Wythenshawe  
Manchester

**Lazy K**  
Lima Kito Radio Club  
PO Box 55  
Portadown  
Northern Ireland

**Leslie Breakers**  
Mondays at  
The Leslie Arms  
Cherry Orchard Road  
Croydon

**Leapool Breakers Club**  
c/o Maid Marion Hotel  
Coppice Road  
Arnold  
Nottingham

**Leicestershire CBers**  
c/o Modern Motoring  
68 Narborough Road  
Leicester LE3 0BR

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4 Lismore Crescent  
Oban  
Argyll

**Log Breakers**  
Every Monday at  
Log Cabin  
Royal Oak Pub  
Watnall  
Notts

**Lowestoft & District Jolly  
Breakers**  
10 Viburnum Green  
Lowestoft  
Suffolk

**Maldenhead Official Breakers**  
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King Street  
Maldenhead

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**Market Town Breakers**  
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Kent

**MCBRA**  
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Pelsall  
Walsall  
West Midlands

**Medway Breakers**  
55 Playstool Road  
Newington  
Sittingbourne  
Kent

**Meon Valley Breakers**  
4 Lawrence Road  
Fareham  
Hants

**Merseyside 27 Club**  
34 Micklefield Road  
Liverpool 15

**Mexico City Breakers**  
The Old Masons Arms  
High Street  
Mexborough  
Yorks

**Mid-Kent CBC**  
c/o Ten Four Telecom  
22 The Broadway  
Maidstone  
Kent

**Midlands CBRC**  
Unit 2  
72 Oval Road  
Erdington  
Birmingham

**Midlands CB Radio Club**  
85 Allens Lane  
Pelsall  
Walsall  
West Midlands

**Milktown Breakers**  
Every Thursday at  
Rawthorpe Working Mens Club  
Rawthorpe  
Huddersfield

**Molesey Open Breakers**  
c/o Royal Oak  
337 Walton Road  
East Molesey  
Surrey

**NACB**  
Every Thursday at  
The Commodore International  
Nuthall Road  
Nottingham

**National Committee for the  
Legislation of 27MHz CB Radio**  
47b Stoneygate Road  
Narborough  
Leicester

**National Independent Pirate  
Band**  
Heirman Straat 37  
Merksem 2060  
Belgium

**New City Breakers Club**  
9 St Leger Court  
Linford Local Centre  
Gt Linford  
Milton Keynes  
Bucks

**North East Derbyshire 10-4 Club**  
12 Coniston Drive  
Clay Cross  
Chesterfield  
Derbyshire S45 9ET

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38 Williams Street  
Langold  
Worksop  
Notts

**North London Breakers**  
Wednesday at  
The Sparrowhawk  
Glengall Road  
Edgware  
Middlesex

**Northampton Breakers Club**  
Wednesdays & Sundays at  
The Needle  
Northampton

**Norwich Social Breakers Club**  
72 Silver Road  
Norwich  
Norfolk NR3 4TD

**Open Channel CBC**  
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Preston

**Open Channel Citizens Band  
Club**  
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**Rainbow Breakers**  
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Co. Tyrone  
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Stockwood  
Bristol BS14 8LH

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Churchill  
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**Richmond & District Breakers**  
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Black Horse  
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Every Monday at  
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**Sandwell Area CB Club**  
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**Saundersfoot and District  
Breakers Club**  
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Kilgetty  
Dyfed SA68 0UX

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

**South Birmingham  
CB Club**  
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Solihull  
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Courtlands Social Club  
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Bellamy Road Estate  
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Sheffield S11 8PE

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Penhill  
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PO Box 319  
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Vertically polarized full 1/4 wave antenna providing the most reliable operation and greatest range. It will without doubt produce a higher performance than an antenna which claims to have gain, but that has been reduced from its correct physical length.

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Our engineers are able to deliver and install (SWR) your twig within a 60 mile radius from our base. Ring Scunthorpe 65203 and ask for Terry for all details.

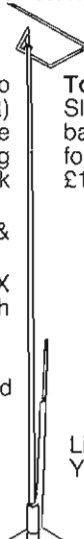
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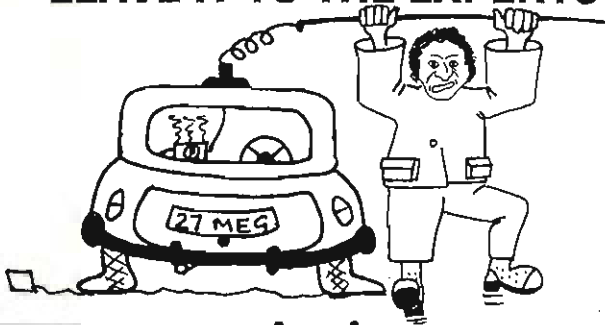
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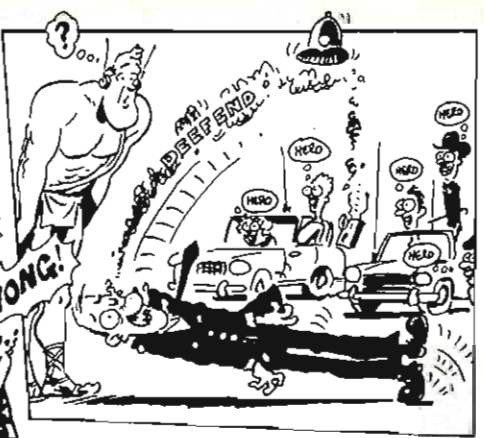


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# TWONG

SEE THIS GUY! HE A GODLING. HE FELL OUT WITH HEAVEN 'COS HE'S DUMB, ALSO 'COS HE DUMB, ALSO 'COS HE LEANED OUT TOO FAR OVER THE EDGE!! BUT NOW, HE DOWN HERE WITH US... NOTSMORE



... HE GOT TWONGY EARS THAT CAN PICK UP C.B. ON ALL CHANNELS!... NOTSMORE. HE CAN SEND ON ALL CHANNELS!... NOTSMORE. HE REAL NIEVE, HE DON'T KNOW FROM BOO! NOTSMORE. THAT'S SHANKS'S BEAR COMIN' IN THE BACK DOOR!!

...WHERE THEY GAVE HIM ADVICE... AND PABS... AND INFORMATION... AND INSTRUCTION... AND NEWCASTLE BROWN ALE... AND A LITTLE BOOK BY RICHARD NICHOLS, CALLED C.B. RADIO...

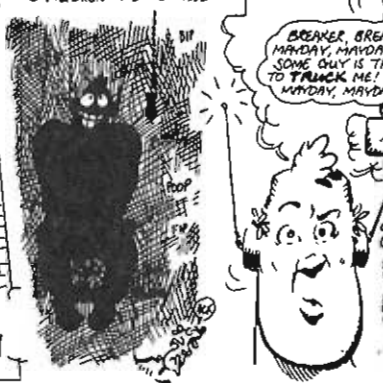


SUDDENLY, OUR HERO GOES INTO ACTION, HIS BRAIN BURSTING WITH NEW C.B. KNOWLEDGE...



... HIS BLADDER BUSTING WITH NEWCASTLE BROWN.

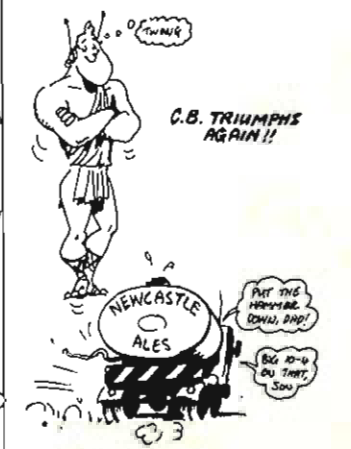
FOR MANY DAYS, TWONG SITS IN CONTEMPLATION OF THE MAGIC VOICES ON THE ETHER... NOT TO MENTION THE METHANE...



SOON OUR HERO RUNS OUT OF PATIENCE, AND WITH A GREAT LEAP IS ON HIS WAY...



AND SO OUR HERO COMPLETES HIS FIRST MISSION, AND ANOTHER TANKER OF NEWCASTLE BROWN ALE CONTINUES UNDELOYED TO SLAKE THE DRY THROATS OF ALL US C.B. FREAKS! HAH!!



BREAKER

TRENANCE ROAD-STAUSTELL  
 HI! COME ON IN TO  
**MID CORNWALL**  
 + **CB CENTRE** +  
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