

# CB Citizens' Band

Britain's Leading CB Monthly

INCORPORATING

# CB world

## THE CYBERNET 2000

Father to a  
big family

## SEABOUND WITH CB

A distressing  
warning

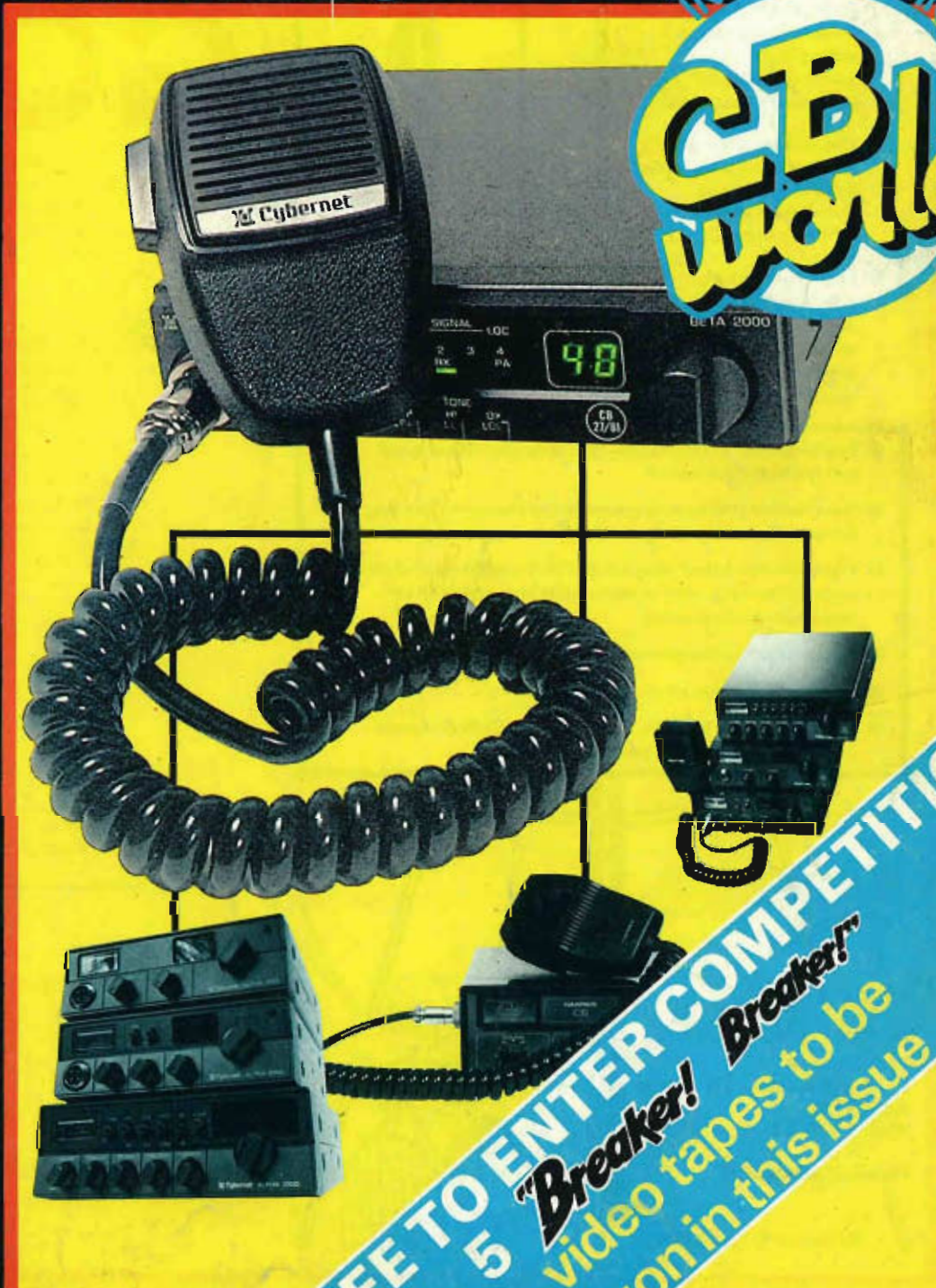
## CORDLESS PHONES

Latest news  
and reviews



## REFERENCE SECTION

All the gen on  
all the key rigs



**FREE TO ENTER COMPETITION**  
**5 "Breaker! Breaker!"**  
video tapes to be  
won in this issue

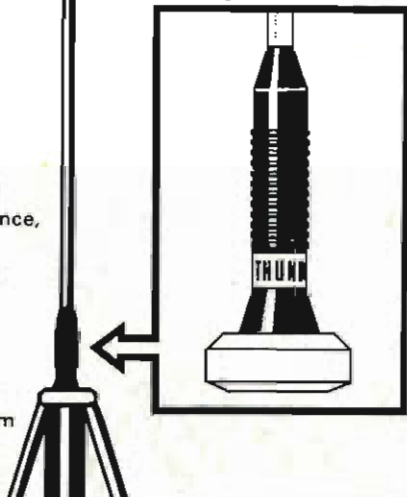
# THUNDERPOLE II

# THUNDERPOLES ARE GO!

- The Thunderpole II from the UK market leader of the fastest selling high-performance legal base station antenna.

- The highest star-rated antenna for Performance, SWR Adjustment, Installation and Value (Citizens Band '82).

- Exciting new ribbed coil design with doubly encapsulated windings for maximum performance and all-weather protection.



- Tests indicate performance matching that of an illegal 5dB home base antenna.

- Base loaded coil on a single radiating element 1.5m long — pre-tuned and requiring no SWR adjustment.

- Precision-machined alloy base with 3 angled ground planes, each 2.67m long, with cross bracing and designed for maximum performance.

- Power 500W — Frequency 27Mhz — SWR 1:1.5 or less.

- Pole mounting base 1 1/4 ins. dia.

- Price just £25.00 incl. VAT plus carriage £3.95 and each antenna is Individually guaranteed.

"THE THUNDERPOLE FROM FREEMAN & PARDOE LTD. IS I AM SURE, GOING TO EMERGE AS ONE OF THE TOP PERFORMERS IN THE LEGAL TWIGS STAKES."

"THE THUNDERPOLE IS PRE-TUNED, AS ALL GOOD HOME-BASE ANTENNA SHOULD BE. YOU SIMPLY STICK IT UP ON A POLE AND PLUG IT IN TO THE RIG."

"A WELL CONSTRUCTED, EASILY ASSEMBLED AND ERECTED, EXCELLENT PERFORMANCE LEGAL ANTENNA WITH THE ADDED BONUS THAT IT IS PRE-TUNED."

"THE THUNDERPOLE IS THE NEAREST THING YOU WILL GET TO AN ILLEGAL STARDUSTER, IF YOU WANT TO STAY LEGAL."

THE ABOVE IS WHAT CITIZENS BAND MAGAZINE, SEPTEMBER 1982, SAID ABOUT THE FANTASTIC THUNDERPOLE.

CITIZENS BAND, NOVEMBER 1982 BUYER'S GUIDE SAID "WE WERE VERY IMPRESSED WITH THE THUNDERPOLE'S PERFORMANCE AND FELT THAT AT £28.00 IS ONE OF THE BEST BUYS AROUND."

FOR MAXIMUM PERFORMANCE INSIST ON A GENUINE THUNDERPOLE

## FREEMAN & PARDOE LTD.

Tything Road  
Arden Forest Industrial Estate  
ALCESTER  
Warks. B49 6ES.

Phone: (0789) 762 673

© Freeman & Pardoe 1982



**Advertisement Manager:**  
Neil Johnson  
**Design and Origination**  
by MM Design and Print  
London WC2H 0EE  
**Managing Director**  
T J Connell

**Editor:**  
Chris Adam-Smith

**Assistant Editor:**  
Kevin Whitchurch  
**Managing Editor:**  
Cliff Wilson

# Citizens' Band

## CONTENTS

### ABC

#### Cover this Month

We feature this month—in glorious colour—the Cybernet Beta 2000 and some of its kin—which, as you might have expected, reminds me . . .

Hugh was an old farmer who—through the good offices of his prized cow Buttercup—produced the tastiest milk in the country. She performed this task so well because, each evening, Hugh gave her a pint of his homemade beer. Beer that was brewed to a very secret recipe.

So popular was the milk that the locals even preferred it to ale from the village pub. The publican was very upset and hired a witch to put a curse on Hugh's brew and to give the cow some of his own brand instead. The witch performed her task well. Hugh's brew was hexed and the cow made very drunk. 'Oh dear' said Hugh the next morning. 'My Buttercup runneth over!'

No matter how many more fresh brews that Hugh brewed—Buttercup was never the same again. Never more was she to produce the fine elixir that had so happily filled the pinta people of his village.

This only goes to show that . . .  
**HUGH CAN'T TAKE A MILK CURSE OUT OF A COW'S BEER!!!**

The contents of this publication including all articles, designs, plans, drawings and programs and all copyright and other intellectual property rights therein belong to Argus Specialist Publications Limited. All rights conferred by the Law of Copyright and other intellectual property rights and by virtue of international copyright conventions are specifically reserved to Argus Specialist Publications Limited and any reproduction requires the prior written consent of the Company. ©1983 Argus Specialist Publications Limited.

CITIZENS' BAND is normally published on the third Friday of each month prior to cover date.

CITIZENS' BAND, 145 Charing Cross Road, London WC2H 0EE. 01-437-1002. Published by Argus Specialist Publications Ltd. Distributed by Argus Press Sales & Distribution Ltd., 12-18 Paul Street, London EC2A 4JS. Printed by Alabaster Passmore & Sons Ltd., London & Maidstone.

MAY 1983

VOLUME 3 NUMBER 6

<b>Update</b> . . . . .	6
Nationwide	
<b>CB Q&amp;A</b> . . . . .	10
Question Time	
<b>Rig Review—Cybernet</b> . . . . .	14
Doctor Who?	
<b>Tworg</b> . . . . .	17
Star Trek	
<b>Lady Breakers</b> . . . . .	19
Wonder Woman	
<b>Seabound CB</b> . . . . .	20
When The Boat Comes In	
<b>Cordless Phone Reviews</b> . . . . .	22
Phone In!	
<b>Competition</b> . . . . .	26
Game For A Laugh	
<b>Mack Chat</b> . . . . .	27
Taxi	
<b>REACT</b> . . . . .	28
Emergency Ward 9	
<b>Antenna Review—K40</b> . . . . .	30
Forty Towers	
<b>Q&amp;SLs</b> . . . . .	32
Multicoloured Swap Shop	
<b>Back Chat</b> . . . . .	34
Points of View	
<b>Clubs</b> . . . . .	37
Wheel Tappers & Shunters . . . . .	
<b>Reference Section</b> . . . . .	39
The Epilogue!	

# THE G.A.P. AVENGER

## Legal homebase Antenna

"The legal antenna that thinks it's a 1/2 wave"

The AVENGER will solve ALL your problems!

We have taken a base loaded legal radiator with a single "ground plane" threaded with coaxial cable through the "ground plane" and finally supported the antenna at it's base rather than at it's centre.

This gives us a new legal configuration that is bound to be accepted by all Breakers.

- \* The AVENGER is easy to fix, on a wall bracket or mast top.
- \* No ugly multiple ground plane radials.
- \* Cleverly end supported giving additional height.
- \* Minimum line current due to shielding of coax in the "ground plane".
- \* Impedance... 50 ohms.

Could this be the ultimate in LEGAL antennas?? ... We think so!!

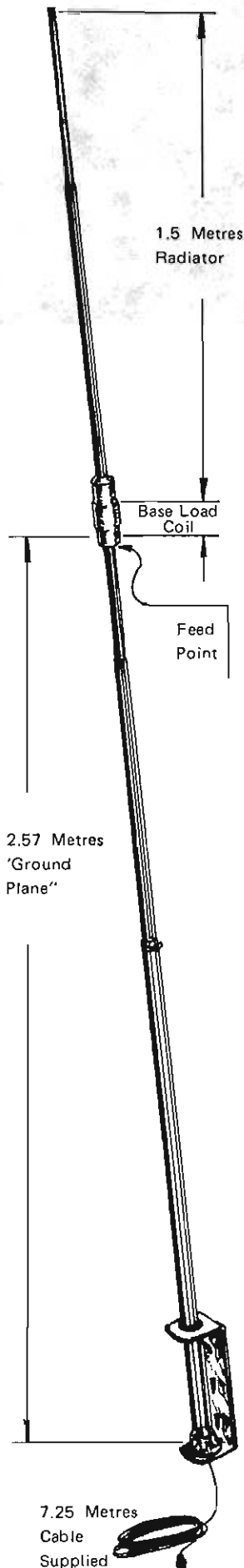
1983 Gamma Aerial Products Limited.

## Gamma Aerial Products

MANUFACTURERS OF AMATEUR RADIO & CB ANTENNAS

LYE, WEST MIDLANDS

TRADE ENQUIRIES  
TEL. LYE 891132



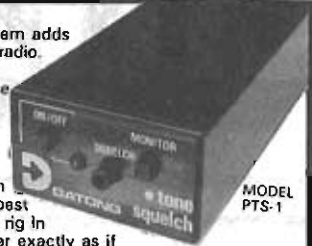
# PRIVATE CHANNEL?

## THE NEXT BEST THING

The Datong Tone Squelch System adds a whole new dimension to CB radio. As well as being an interesting hobby CB now fulfils its promise as a useful low cost communications accessory for small businesses, farmers, families, emergency groups, etc.

By fitting a PTS-1 to each rig in your group you have the next best thing to a private channel. Any rig in your group can talk to any other exactly as if the PTS-1 were not preset but, and this is the vital benefit, no outsider can call into the group.

The result: the rigs are silent between calls and everyone can concentrate on the job in hand without interruption.



### TECHNICAL

PTS-1 works by sending one of sixty four continuous tones during every transmission. At the receiver the Tone Squelch opens only if the correct tone is present. (The actual tone is automatically removed before the signal reaches the loudspeaker so the intended user never hears it). This technique offers the best possible immunity to interference - the range of the set is not reduced in any way.

Model PTS-1 comes with a connecting lead that must be wired to the rig's power supply, microphone input and loudspeaker link. Sometimes suitable connections may be accessible at an accessory Selcall socket but normally six soldered connections will need to be made inside the transceiver. Full instructions are supplied, or ask your local dealer.

Unit price: **£45.99** (Including VAT)  
(Note - a unit is required for each radio in the group).



### LOW-COST SELCALL

(see feature in "Citizens Bend", February 1983)

"Codecall" is an exclusive low cost selcall system from Datong which requires no internal connection to your rig. When monitoring just plug the unit into your rig's external speaker jack. This keeps it totally silent. But when a correctly coded call comes in "Codecall" starts bleeping loudly. You then press the "LS" button to reconnect your speaker and hear the message.

To send out a call just press the call button and hold "Codecall's" bleeper output close up to the microphone. "Codecall" automatically switches on its internal PP3 battery whenever a signal appears on the channel, therefore it is best used where channels are not too busy. In busy areas we recommend Model PTS-1.

Unit Price **£33.92** (Including VAT)

(Note - a unit is required for each radio in the group)

### DIRECTION FINDER

Model DF, plus your FM CB rig, plus four magmount antennas and you have a highly effective mobile direction finding system for locating other



transmitters. The readout is almost instantaneous on a circle of sixteen green LEDs. Model DF is supplied to both professionals and amateurs. Ideal for use by clubs - as reviewed by "Citizens Band", January, 1983.

Price: **£182.85** including VAT (antennas not included).

### DATONG ELECTRONICS LIMITED



Data sheets and full catalogue available free on request - send large s.a.e.

All Datong products are designed and built in the U.K. They are available direct (mail order only) or from selected dealers.

Dept C8, Datong Electronics Ltd., Spence Mills, Mill Lane, Bramley, Leeds LS13 3HE  
Tel. 0532 552461



# TELECOMMS

**THE COUNTRY'S  
LEADING  
C.B. STORE!**

**JUST A FEW OF OUR  
SPRING BARGAINS!**

**AKD CB VAMPLIFIER**

A new product combining our established CB pre-amp and vampire into one unit with switching facilities and variable control of the vampire for the ultimate control of interference.

**£29.95**

**STALKER ST9FDX**



**£99.50 ONLY**

**GPA 27 £13.95**

1/2 wave (+ £3 p&p)

**THUNDERPOLE II**

**£19.95 (+£3 p&p)**



**EXCLUSIVE U.K.  
DISTRIBUTORS FOR A.K.D.  
& ZETAGI PRODUCTS**

MAJOR STOCKISTS OF: MAXCOM, MIDLAND, COBRA, NATO, STALKER, GRANDSTAND, YORK, PRESIDENT, AUDIOLINE, HAM, COMMUNICATOR, INTERCEPTOR, TRISTAR, SIRTEL, TARREN, BABLOCK, ELECTRONIKA, HARVARD, BANDIT, K40, OSCAR, BREMI, LESON, ALTAI, TURNER, VALOR, THOROBRED, S.H.F. MELOS, ALCOM

ASK ABOUT  
OUR A.K.D.  
RANGE OF  
TVI  
FILTERS



THE ULTIMATE SET....

**NATO 2000**

**£184.95**  
(+ £5 p&p)

**SEND £1 FOR OUR CATALOGUE AND  
LISTS AND RECEIVE A £2 VOUCHER  
AGAINST YOUR FIRST PURCHASE**

★ **A. K. D.** ★

**CB VAMPIRE (CBA 1)**

Eliminate the worst effects of adjacent channel interference (Bleed-Over)

**£14.37**

**CB SIGNAL BOOSTER**

A low noise high quality dual-gate F.E.T. pre-amp giving in excess of 24db gain.

**£14.87**



**MODEL BV 131  
Mains Power Amplifier**

100W FM 200W SSB  
Price **£84.53 (P&P £5)**



**MODEL P27-1**

High Quality Pre-Amps

Model P 27-1

Price **£14.95 (P&P £2)**

Model P27 (with MTR)

Price **£25.31 (P&P £3)**

**40 MORE  
ZETAGI ITEMS  
IN OUR  
CATALOGUE**

**MODEL B 30**

Mobile Power Amplifier

25W FM or 50W SSB

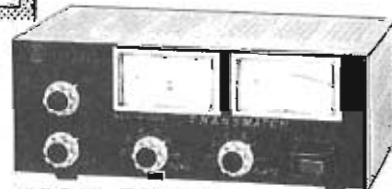
Price **£15.44 (P&P £2)**

B35 — Switchable version B30

Price **£19.25 (P&P £2)**

B300P 400W SSB 140W FM

Price **£119 (P&P £3)**



**MODEL TM 1000**

1 KW Matcher

Combined Matcher SWR/Power Meter and 2 way Ant. Switch

Price **£39.95 (P&P £3)**

**SAME DAY DESPATCH**

on our  
**HOTLINE**  
**0705 — 662145**

Simply phone — quoting Barclay or Access number for immediate despatch of items listed.



# TELECOMMS

Team up with the best

**189 LONDON ROAD, NORTH END  
PORTSMOUTH (0705) 662145**

TELEX: 869107 TELCOM G



# UPDATE

## NEWS FROM THE WORLD OF CB

## NEWS FROM THE WORLD OF CB

## NEWS FROM THE WORLD

We get a lot of letters from people claiming to be wallys. Some of them are fun and some of them are nonsense but now and then we get one that is punctuated with a few home truths. Truths that may make a good many breakers feel a little uncomfortable. For instance, one such letter writer listed, with some enjoyment, the various disruptive activities and gave a few reasons why.

One reason given—in this particular instance—was that in his area there are a group of CBers who take over one of the channels for five hours a day and fill this period

with endless '... chatting about their wives, coffee mornings and other world shattering bullitins.'

Like many other CBers I have listened in on so called 'nets' and long, endless chatterings of harmless but meaningless drivel that in itself directly contravenes the 'CB Code of Practice' set out by the HO for the general guidance of CB radio users. This code specifically states—'Keep conversations short when the channels are busy so that everyone has a fair share.' Sadly, with only forty channels to choose between and not much likelihood of more in the near future, the channels

are always busy and it is extremely important to observe this 'Number One' of the Code of Practice.

It may be a different matter in very rural areas or when mobile and constantly on the move but, in busy areas where channels are at a premium, taking over a channel for a great length of time is not being fair to anyone.

While we cannot condone the so called wally activities it might be worth looking at your own use of CB before complaining. It may well be a case of 'People living in glass houses ...'

**Chris Adam-Smith**

### Don't Panic

Remember Corporal Jones and the rest of the Dad's Army mob from Warmington-On-Sea? Well, it seems they're making a comeback with CB radio. According to Sir David Willis, CB radio could be very useful for the new Home Defence Force he is planning. In the event of war he recommends that the Government should recruit thousands of men and women, aged 18 or more and issue them with small arms and CB radios. Can you imagine Captain Mainwaring saying 'One-four for a copy?' No, me neither.

KW

### Oops, what a bludner!

There were red faces all round the CB office when we looked at the March SWR competition. We managed to set the closing date before the competition even opened! A search was established to see what went wrong but it was all to no avail—the buck is still being passed at a great rate of knots. For those of you who wanted to enter do not despair. The closing date for the competition has been extended to May 20th.

KW

### Speak Up

We all know about Maxcom's Speakeasy. Well now there's the Super Speakeasy. It's a heavy duty version of the original designed for use on building sites, in warehouses and in recreational activities like skiing and hiking.

Like the original version there's a voice operated

mike, a transmission range of over half a mile and a rugged lightweight casing.

The Super Speakeasy will sell for around £39.95. This includes a charger so Ni-cad batteries can be recharged in the Speakeasy. Details from AM Telecommunications Tel: (0923) 721144.

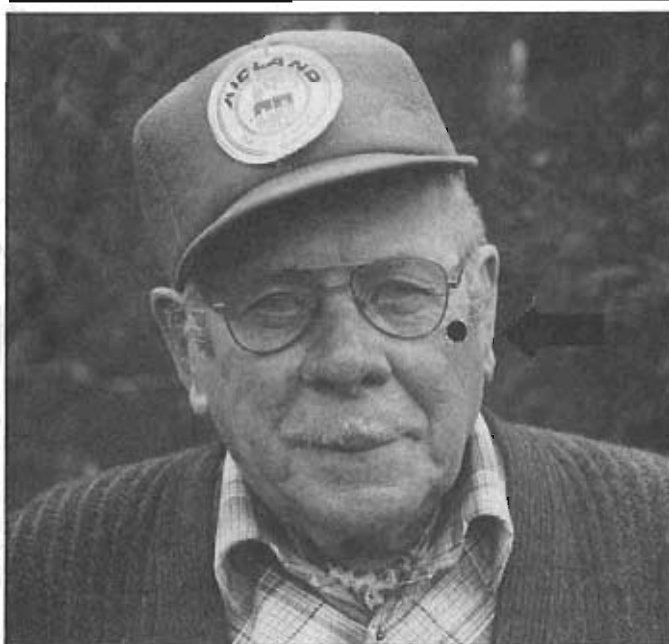
KW



## Uniace Move

Cravenminster are now the sole importers of the Uniace CB. The recommended retail price has been reduced which should make this already popular range even more attractive, especially to the first time buyer. Citizens Band rig reviews on both mobile rigs were published in the September '82 and February '83 issues—copies of which can still be obtained from our back numbers section. Cravenminster can be reached at 31, Madoc Street, Llandudno, Wales or by phone on 0492 68770.

KW



## Spot the Spot Winner

I don't like competitions because I want everybody to win! Alas, although so many of you came very close—there can be only winner this month.

Hundreds of entries to the 'Spot the Spot' competition, some nice letters, eyeball cards and—one or two very cheeky entries. A Mr. Holder of Maidstone covered the whole picture with spots and, just to be on

the safe side, he sent in a spare spot and asked me to put it on for him. Well Mr. Holder—you deserve a patch for your cheek . . . Geddit?

The winner of the Long Ranger 40 is P.J.M. Jaffrey of 3 East Lodge Cottage, Ladykirk, Berwick upon Tweed, TD1S 1SU and the rig is on its way to him now.

Our thanks to Porky One of the Sussex 20 for being such a good spot . . . Sorry . . . I mean spot!

CAS

## Great News From BEE WARE

Bee Ware are launching into 934mhz in a rather unusual way. The LA83 transverter which will change a 27mhz rig into a long awaited 934mhz CB transceiver will be at selected Grandstand dealers from the end of May.

Bee Ware are offering a complete package of matched 27mhz rig—the Bluebird—and LA83 for around £215.00. The transverter can be purchased separately for £199.95. As the actual 27mhz rig is so reasonable,

you could do worse than buy the matched pair.

It is hoped by Bee Ware that the Rubber Duck image of CB will not be as prevalent on the quieter 934 and, indeed, are hoping for a more 'plain language' use of a system they refer to as 'Leisure Communications Band'.

Here at Citizens Band we have high hopes for the 934mhz system and its use as a true communications network.

Chris Peterson will be telling you much more about the LA83 in the near future. Exciting isn't it?

CAS



# OSCAR

## THE PERFORMERS

THE HIGH QUALITY RIGS TO MATCH

\* A range of five Antennas

\* A range of five Mounts

\* The only fold over Antenna

### OUTPERFORMS THE BEST

Unlike K40/ARMSTRONG, both designed for the American market, quoting American testimonials, the OSCAR has not been outperformed in any properly conducted scientific UK tests.

11SE Pictured	£17.55 inc p&p 2.00
11NE Slimline Folding	£16.95 inc. p&p 2.00
11CM C/W Mag Mount	£19.50 inc. p&p 2.20
11CE Compact	£9.95 inc. p&p 1.80
11ZE Economy	£8.80 inc. p&p 1.80
<b>MOUNTS</b>	
TMCAS Trunk mount	£8.45 p&p 1.80
GCCA Gutter Clip & Cable	£9.95 p&p 1.80
SOWM Wing Mount	£4.20 p&p 1.00
SOCA Cable Assembly	£6.00 p&p 1.00



Oscar One £85 inc.



Oscar Two £49.00 inc.

AWARD YOURSELF AN OSCAR

SMC SOUTH MIDLANDS COMMUNICATIONS LTD  
Rumbridge Street, Totton, Southampton SO4 4DP Tel: (0703) 867333

TRADE ENQUIRIES  
WELCOMED

**STOKE**  
76 High Street,  
Talkopis, Stoke.  
Tel: (07816) 72644

**CHESTERFIELD**  
102 High Street  
New Whittington  
Chesterfield, Derby  
Tel: (0246) 453340

**LEEDS**  
257 Otley Road  
Leeds 16, Yorkshire.  
Tel: (0532) 782326

**HUMBERSIDE**  
247a Freeman Street  
Grimsby, S. Humberside.  
Tel: (0472) 59368

**BUCKLEY**  
Unit 27, Pinfolds Workshop  
Pinfold Lane, Buckley,  
Clwyd.  
Tel: (0244) 549563

**JERSEY**  
1 Belmont Gardens  
St. Helier, Jersey.  
Tel: (0534) 26788

## CRAVENMINSTER LTD UNIACE TELECOMMUNICATIONS — PRESENT —

### UNIACE 100 MOBILE

**FEATURES** PA/CB switch • Power switch 4W-0.4W • Channel selector • Rotary on-off volume and squelch • 40 CH LED indicator • Signal Strength meter • Supplied with mic., fixing brackets for unit and mic., also connecting leads with fuse • External speaker socket.

**GENERAL SPECIFICATIONS UNIACE 100**  
Channels: 40  
Frequency range: 27.60125 MHz — 27.99125 MHz  
Microphone: 600 Ohms, dynamic type  
Size: 148 x 48 x 265 mm (W x H x D)  
Weight: 1 kg Power source: 13.2v D.C.

(Available immediately)

### UNIACE 200 MOBILE

**FEATURES** Rotary on-off volume and squelch controls • Tone switch • PA/CB switch • Power switch 4W-0.4W • Brite-dim switch • 40 channel LED indicator • Signal strength meter • Rotary RF & mic. gain control • Supplied with fixing brackets and leads • External speaker socket

**GENERAL SPECIFICATIONS UNIACE 200**  
Channels: 40  
Frequency range: 27.60125 MHz — 27.99125 MHz  
Microphone: 600 Ohms, dynamic type  
Size: 160 x 56 x 217 mm (W x H x D)  
Weight: 1.2kg Power source: 13.2v D.C.

(Available immediately)

### UNIACE 300 HOME BASE

**FEATURES** Rotary on-off volume and squelch controls • Tone switch • PA/CB switch • Power switch 4W-0.4W • 40 channel LED indicator • Signal strength meter • Rotary RF & mic. gain control • Supplied with fixing brackets and leads • External speaker socket • Head phone socket

**GENERAL SPECIFICATIONS UNIACE 300**  
Channels: 40  
Frequency range: 27.60125 MHz — 27.99125 MHz  
Microphone: 600 Ohms, dynamic type  
Size: 340 x 120 x 264 mm (W x H x D)  
Power source: 250/230 A.C. or 13.2v D.C.

(Available July 83)

TRADE ENQUIRIES WELCOME. AVAILABLE FROM ALL LEADING CB SHOPS

31 MADOC STREET, LLANDUDNO, NORTH WALES TEL: 0492 68770



## Thunderpoles

There is nothing quite like CB radio for speeding up the already rapid process of the spreading of rumour! You think out loud one moment and the next it's gospel everywhere! One such rumour was flying about last month.

We had several calls informing us that the popular Thunderpole antenna was to be made illegal. Freeman and Pardoe were also inundated with calls of the same nature. Where the story came from, nobody knows but it certainly wasn't true.

A call to the HO confirmed that no such claim had originated with them and, as far as they were concerned, was not about to be. They were about to confirm this fact in a letter to the manufacturers. So, another strange rumour bites the dust and, as far as you breakers are concerned Thunderpoles are still GO!!!



Silver, Gold or Black—Three facias of the Mercury 1040. This exciting new rig from EMS Communications of Grove Street, Wantage, Oxon LX12 7AD—Tel. No. 02357 3518 Telex 837303—is specially designed and built in Britain for the British Market. We will be telling you much more about it very soon.

## Hedgehogmania!

Hedgehogmania is sweeping the land and not before time. You mobile breakers out there on the highways and byways of this fair land, sooner or later, are bound to encounter *Erinaceus europaeus* as he wanders across your path this summer.

The hedgehog is a small spiny insectivorous mammal—the gardener's friend—which does absolutely no harm to anyone. He is a little bit of Britain to be treasured and we are proud to say that *Citizens Band Magazine* is a member of the British Hedgehog Preservation Society and we aim to make you an interested party as well.

Since the society was formed it has done some sterling work in interesting people in the general welfare of the creature. They have encouraged the building of small ramps to

help him to extricate his prickly hide from cattle grids and, through booklets etc. made people a lot more aware of what problems you face when you are a wanderer and only about four inches high.

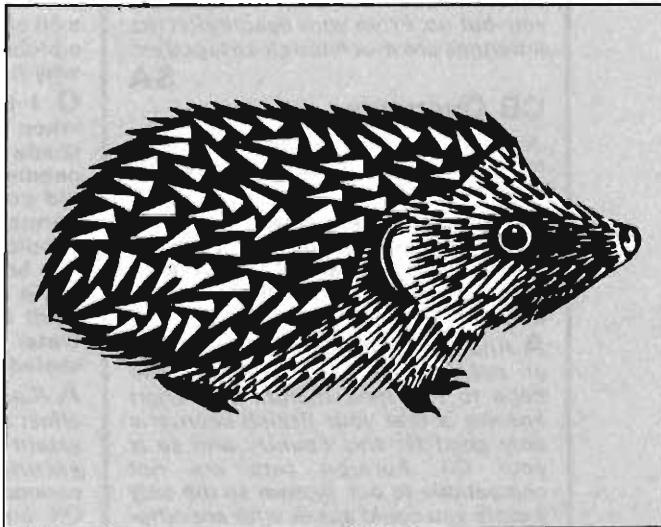
How do hedgehogs make love? Very carefully, friend—very carefully!

A lot of CBers have adopted his name as a handle and I can't think why anyone would actually wish to do him any harm. If you see one in the middle of the road—they tend to stand very still and hence become the victims of the old radial ply—give him a break if you can. Standing on the white

line is a pretty dodgy pastime for a hedgehog but it does mean, in lots of cases, you can give him a miss or at least slow down until he has moved to safety. We are fed up with seeing them lying squashed and battered in the gutter as food for the crows and magpies.

Apart from showing some concern on the highway there is another way that you can help. Send £3.00 to the BHPS and become a member of the society. They will send you details of tee shirts, ties, caps, shopping bags and even silver ear studs. The address is: *British Hedgehog Preservation Society, Knowbury House, Knowbury, Ludlow, Shropshire.*

Over the next few months we will be running some hedgehog competitions including one for Junior Breakers—with big rig prizes. And, next month we hope to make you a special offer that you can't refuse! Watch out for it! CAS





check the drain hole in the antenna itself. It has to be water getting to it somewhere.

SA

## Illegally Bound!

Kenneth Robertson from Glasgow asks the million dollar question... and I can't answer it...

**Q** If you run a legal rig and are licenced to do so but use an illegal antenna—would you be fined the same as if you were using a burner? Or would they just warn you?

**A** We all know the difference between a legal and an illegal antenna. We all know that the HO specs regarding antennas are a little unrealistic. We all know that the HO are fully aware of the CBers general dissatisfaction with the specs and, we all know that if you break the law and get caught you are liable to a fine. I haven't yet had any confirmation of a court case resulting from the use of an illegal twig—only of warnings to the user that he would be strongly advised to remove it. However, we have also had reports of breakers being told to remove legal antennas after a 'visit' and we advise those CBers to stand firm.

A drive around a busy CB area will reveal quite a number of illegal twigs and, presumably, if they are not annoying anyone the breakers are left in relative peace. But, as in everything, if you break the law—you are liable to get caught!

SA

## REACT Info.

Mr. Doyle of Plymouth would like some information about REACT.

**Q** I have never seen any forms or addresses printed in your magazine regarding REACT. If possible can you write to me with the details. I enclose an SAE...

**A** Well, Mr. Doyle, that is one SAE that will be put to use! I have sent you letter on to REACT care of Medicman who is the National Training Officer—and I guess you will be hearing soon. For other interested parties the address is featured elsewhere in this magazine in Mike Newbolds article on that excellent organisation.

SA

## Back Numbers

A question from a JB, Jonathan Markey of Yorkshire, which gives me an excuse to answer a lot of questions on Back Numbers of CB...

**Q** I have just purchased a DNT rig and saw in your March issue that a review on this rig was written in July '82. I am interested to know if I have made a good choice—could you send me a photocopy of your report?

**A** If you have purchased the Supertuned DNT from Radio Technic then you are indeed the owner of one of the better rigs on the market. Chris Peterson found it to have '... an

almost faultless performance' and "... exceptional value' Remember this is the supertuned version only.

Sorry—and I mean that—it is not possible to send out a photocopy of the article. We get many such requests and time just does not permit. However, this issue is available from our Back Numbers Department at 513, London Road, Thornton Heath, Surrey, at £1.25 each.

I hope that also answers Ian Hancocks of Plymouth who put a similar question.

SA

## Lightning Reply

And so to the last letter for this month. Pooh Bear from Hull—a long time AM and FM breaker who writes in about a lightning strike and has a suggestion to make...

I had—had being the operative word—a Harvard 420M which flipped its lid when, in '81, it suffered a lightning strike.

The only answer is to use a magnaswitch which uses a small electro-magnet to switch from one antenna to another. RX on one and TX on the other. Reversing the unit allows TX and RX on one antenna and, when the rig is switched off, an open circuit to the other outlet or SO239 which is connected to a 1½ metre steel stake buried in the back yard. Or, using a female S/239 to connect your coax to the earth with a length of copper wire.

Glad that works for you Pooh and thanks for the letter. A lightning arrestor is available, usually from Amateur Radio shops, which safely bleeds off static lighting charges. Don't forget that lightning from miles off can damage a CB radio.

**Problems should be sent to  
CB Q & A, Citizens' Band  
145 Charing Cross Road  
London WC2H 0EE**

The Radio Technic Supertuned DNT. Look for the green label of authenticity!



There's only one genuine



Make sure you get the original!

Phone or write for your local stockist of the original, genuine SUPERKRUNCH today. They say that imitation is the sincerest form of flattery, but we say that all you'll get with bad copies are bad copies! Of course SUPERKRUNCH costs a little more than some of the feeble imitations on offer, but that's because more goes into SUPERKRUNCH. More research, more care, more quality.

If you want reliability as well as undreamed of clarity, get in touch now and we'll tell you where you can get your SUPERKRUNCH. Or fill in the coupon and send it with your cheque today.

To: SKYLAB CB, 2C Keighley Road, Crossflatts, Bingley, W. Yorks.  
Tel: 0274 568428 Please rush me  (write in quantity required)

FM Superkrunch(es). I enclose cheque/money order for £36.00 (inc. of p&g) for each ordered. OR pay by Access/Barclaycard, write Card No

Name.....

Address.....

Allow 21 days for delivery. Full money back guarantee. **SkylabCB**

HAM INTERNATIONAL MAIN DEALER

**C B T** 1 Prince of Wales Rd.,  
Swansea  
(0792) 463821

Ham Thunderbird Base Ant 5/8 wave.....	£26.95 (D)
Ham Hypower Thunderbird.....	£34.95 (D)
Ham Big Mac Base Ant 7/8 Wave.....	£79.95 (D)
Ham Frequency Counter plugs into Ham models.....	£39.99 (C)
Ham Relax Power Mike.....	£14.99 (C)
Ham 232S Processor Base Mike or similar.....	£29.99 (C)
Ham 232DX Processor Base Mike.....	£36.99 (C)
Ham Antenna Matcher with through switch.....	£9.99 (C)
Ham Set Brackets (will fit York, Rotel etc).....	£3.99 (A)
Ham Bracket Screw (will fit York, Rotel etc).....	each £1.00 (A)
Ham 3-5 amp Power Supply.....	£16.99 (D)
Ham 6-9 amp Power Supply.....	£29.99 (D)
Ham 10-12 amp Power Supply.....	£39.99 (D)
Ham 15-18 amp Power Supply.....	£79.99 (D)
Ham 20-30 amp Power Supply.....	£99.99 (D)
Ham Multimode II Front Fascia.....	£88.00 (B)
Ham Concorde II Front Fascia.....	£8.00 (B)
Ham Service Manuals (state model).....	£6.00 (B)

POSTAGE RATES: (A) 50p (B) £1 (C) £1.50 (D) £5.00  
Please allow 28 days for delivery

To obtain your catalogue on HAM International equipment, send £1.50 to C.B.T., 1 Prince of Wales Road, Swansea. Catalogue contains the MMIII CONCORDE III & JUMBO III (1983 models)

ACCESS AND BARCLAYCARD ACCEPTED

From the number of letters and phone calls we are receiving about our product it appears that some breakers are unable to purchase genuine G.A.P. antennas from their local shops.

We have recently started supplying our products direct to the public and this is proving to be very successful.

If you have any difficulty in obtaining our products you can order them direct from the factory, at the following prices:

G.A.P. Skybreaker.....	£18.95
G.A.P. 27MHZ 1/2 wave.....	£14.95
G.A.P. 27Mhz 5/8 wave.....	£16.95
G.A.P. Skyleader 5/8 wave.....	£18.95
Gamma SupaMag.....	£7.50
G.A.P. Avenger.....	£19.95
G.A.P. Lofty.....	T.B.A.
G.A.P. RingoPlane.....	£T.B.A.

These prices include V.A.T. Please add £1.15 for postage and packing. All cheques and postal orders should be crossed and made payable to:

**Gamma Aerial Products Ltd.**

**Gamma Aerial Products**

MANUFACTURERS OF AMATEUR RADIO & CB ANTENNAS  
LYE, WEST MIDLANDS  
TRADE ENQUIRIES TEL. LYE 891132



**AUTOSCAN 5000 IS UNIQUE**

IT'S PROBABLY THE ONLY SCANNING RIG IN BRITAIN TODAY - AND BRITISH DESIGNED AND BUILT TOO.

THIS IS THE START OF A NEW GENERATION OF QUALITY RIGS AND HAS ALREADY RECEIVED WIDE ACCLAIM FROM USERS AND REVIEWERS ALIKE 'FAR OUTCLASSING OTHER PRODUCTS IN DESIGN, PERFORMANCE AND LOOKS.'

IF YOU ARE A SERIOUS BREAKER YOU WILL BE CURIOUS ABOUT THE AUTOSCAN 5000. FIND OUT MORE FOR YOURSELF AND HOW YOU CAN TRY ONE BY WRITING FOR OUR BROCHURE TO THE MANUFACTURERS:

MAGPIE ELECTRONICS LTD., FREEPOST, ANDOVER, HANTS.

SP10 2BR (NO STAMP NEEDED) OR TEL: 0264 66361

JANUARY 81/82/83  
 FEBRUARY 82/83  
 MARCH 81/82/83  
 APRIL 81/82/83  
 MAY 81/82  
 JUNE 81/82  
 JULY 81/82  
 AUGUST 81/82  
 SEPTEMBER 82  
 OCTOBER 81/82  
 NOVEMBER 80/81/82  
 DECEMBER 81/82



CITIZENS' BAND: 513, London Road,  
 Thornton Heath, Surrey, England.

BACKNUMBER ORDER FORM

NAME .....

ADDRESS .....

Back issues ..... at £1.25 each

I enclose £ .....

Cheques and postal orders should be made payable to ASP Ltd.

Simply fill out the form below — photocopy it or write a quick note if, like me, you don't want to spoil your file copy — pop in your cheque or postal order and sit back and wait.

# It's easy to complain about advertisements.

Every week, millions of advertisements appear in the press, on posters or in the cinema.

Most of them comply with the rules contained in the British Code of Advertising Practice and are legal, decent, honest and truthful.

But if you find one that, in your opinion, is wrong in some way, please write to us at the address below.

We'd like you to help us keep advertising up to standard.

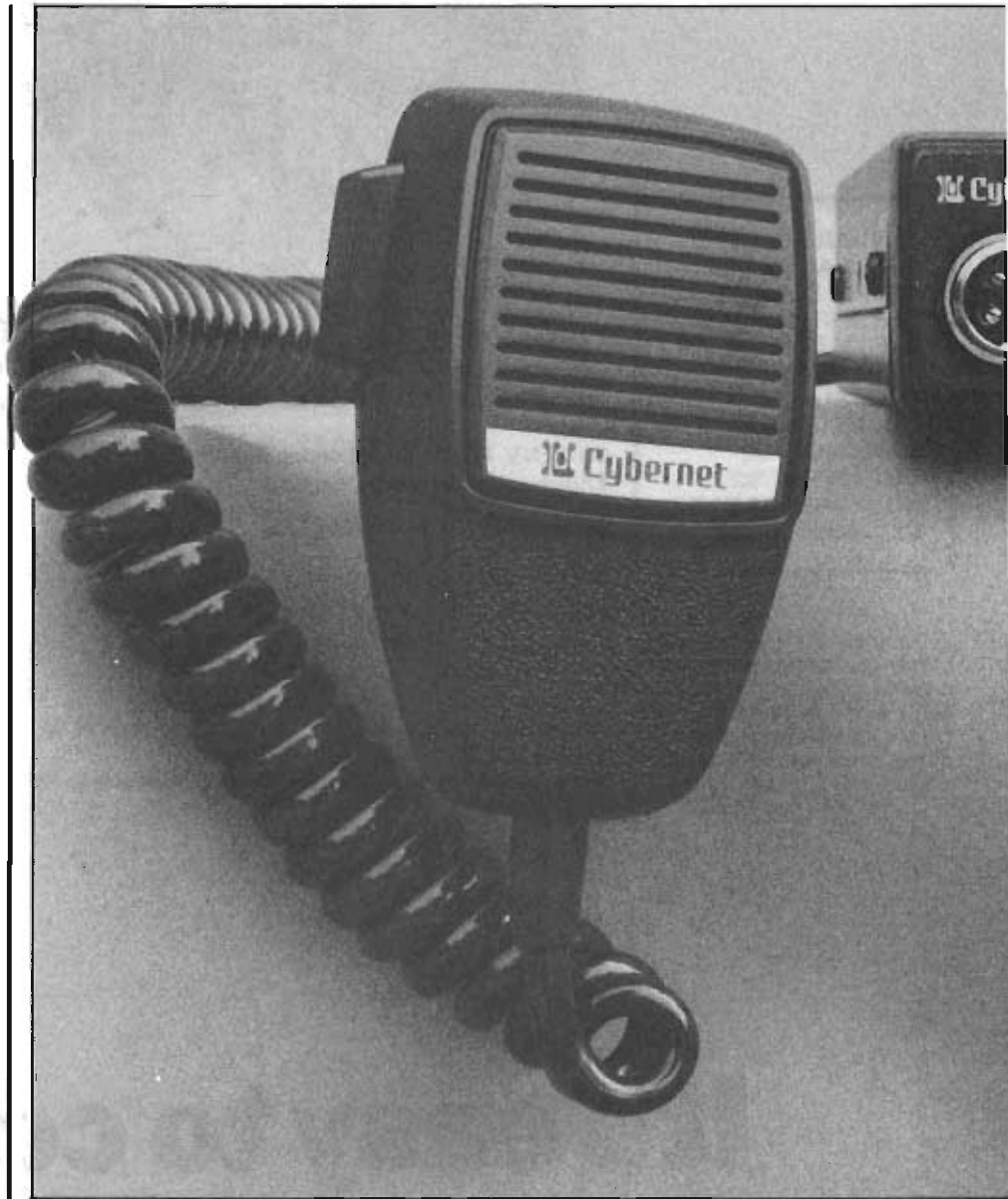
**The Advertising Standards Authority.** ✓  
**If an advertisement is wrong, we're here to put it right.**

A.S.A. Ltd., Brook House, Torrington Place, London WC1E 7HN.

# Rig Review



There is a good chance that your rig is built around a Cybernet chassis. Chris Peterson takes a long hard look at the Family Cybernet and gives you all of the gen . . .



**T**he Cybernet Beta 2000 is one of a range of three rigs available under the Cybernet label. Although well known to aficionados, the name may be unfamiliar to newcomers to CB. Cybernet are one of the biggest manufacturers of CB equipment in the world. They are responsible for Yorks, Rotels, Harriers, 5-star and Fidelity 2000s that have achieved an enviable reputation amongst enthusiasts. All the above mentioned rigs use the Cybernet 134 chassis as does Cybernet's own top-of-the-line rig, the 3000. The two smaller Cybernet rigs, the 1000 & 2000, use the 135 chassis, a slightly simplified and compacted version of the 134.

The 1000 and 2000 share the same case, differing only in that the 1000 is a stripped down version without some of the 'goodies'. The styling is attractive and different. The rig is also unusually compact. If you've got an installation space problem, this would be the rig for you. It measures a mere 147mm wide x 38mm high x 158 mm deep, plus antenna connector

Starting at the left of the front panel is a standard four pin locking ring mike connector. Immediately to the right is a pair of concentric knobs. The inner one is the volume/off control and the outer is the squelch. Next along is a dark perspex window. At the top, this contain a strip of four green LEDs that provide signal strength and power indication, more of which anon. Beneath these are three indicator LEDs: green for Rx, red for Tx and yellow for PA. Beneath these LEDs are three push button switches for CB/PA Tone Hi/Lo and receiver RF gain Dx/Loc. Next along to the right is a green LED channel indicator, and immediately alongside, the channel selector knob.

Moving to the rear we find a standard SO-259 antenna socket, two pin power lead and two 3.5mm jacks for external and PA speakers. At the extreme left hand side is a very small slide switch for the 10 dB attenuator.

All in all it's a very attractive design. Green LEDs tend to be less affected by sunlight than red ones—a



capacitive divider to feed the RF driver stage. The RF driver stage is another common emitter NPN transistor, though in this case a variable resistor is included in the emitter circuit. This resistor can be shorted by the 10 dB attenuator switch to provide full power. When in circuit it reduces the power fed to the output stage, the amount of reduction being governed by the variable resistor (RV5).

The output stage is yet another common emitter NPN transistor. Substantial filtering is applied to the output in order to ensure compliance with the HO specifications.

The receiver signal is tapped off from the transmitter PI filter and passed by a small value capacitor to the input tuned circuit. A pair of back to back diodes protects the input from the full might of the transmitter. The RF amplifier is a common base NPN transistor. The base bias is fixed but switchable from the front panel Dx/Loc switch. This provides a switchable RF gain control. (On the cheaper 1000, the bias for the RF amplifier is derived from the receiver AGC line.)

### Output . . .

The output of the RF amplifier is coupled via a double tuned transformer to the first mixer. This is a singly balanced mixer built around a pair of NON transistors. The output of the mixer (10.695 MHz) is coupled by a double tuned filter circuit (single tuned in the 1000) to a ceramic roofing filter. This is a typical ceramic filter with a bandwidth of about 150 KHz. The output of the filter is coupled into the second mixer. This is a simple (tempting to say crudel) common emitter NPN transistor. The output of the mixer is transformer coupled to the second IF filter, a standard CFW 455HT. The IF is amplified in two further common emitter stages before being detected for AGC and signal metering purposes. AGC is applied to the first mixer and the two 455KHz amplifiers. The limiting IF amp and quadrature detector is a BA403 ic.

The audio output is handled by a TA 7205ic. In the transmit mode this also acts as an AGC controlled mike amp. Two op-amps in the LA645B ic act as an audio filter for the FM modulator, the deviation being adjusted by a small pre-set (RV2).

The squelch is level operated and derived from the receiver AGC line. Various bits and pieces perform housekeeping functions around the rig, for example the TL489 LED display driver.

The internal construction follows the usual Japanese practice of liberally sprinkling components all over the board and then pouring in candlewax! This looks untidy, but appears to work reliably in practice!

### Lab Results

The Beta 2000 was run through our standard lab tests to test compliance with HO specs and overall

plus point—though it's a pity the 10 dB attenuator is a round the back—a minus point. In receive, the top row of LEDs indicates received signal strength. In transmit at high power they indicate power output. When the 10 dB attenuator is switched in they indicate modulation—a nice touch.

The rig comes well protected in a substantial box with all mounting hardware. The handbook is comprehensive and clear, if in somewhat small print! As mentioned earlier, the 135 chassis is very compact and in consequence some of the features of its big brother have had to be omitted. Unlike the bigger Cybernet chassis, the 1000 and 2000 are only suitable for negative earth installations. If you have a positive earth car, then you will need a voltage inverter to operate one of these rigs.

### Technicalities

When we talk about 'conventional' design, it is sometimes puzzling as to where these conventions come from! The Cybernet chassis is a classic

design, using relatively straightforward but careful design to achieve good performance. There is nothing here that is going to set the world on fire, just painstaking development of standard circuitry.

The synthesiser is a standard Sanyo LC7137 device. The internal crystal oscillator is used. The VCO is a classic Colpitts circuit built around the base-emitter junction of a silicon NPN transistor. Two separate varicap diodes are used, one providing the VCO control element for the phase-locked loop, the other being the modulating element to generate FM. To accommodate the necessary change in operating range between transmit and receive modes, another NPN transistor is used to switch some extra capacitance across the tuned circuit when required.

The transmitter strip is simple but effective. A common emitter NPN transistor acts as a frequency doubler, feeding a double tuned filter circuit to drive the RF pre-amp. This is another common emitter NPN transistor. This stage is singly tuned and uses a

performance. All measurements were taken at 13.8 volts supply.

The power output was measured at dead on 4 watts, and the 10dB attenuator reduced this by a slightly generous 11dB. All the harmonics were below the HO specified levels of -72 & -79dB respectively, but some were only just in. Frequencies were all within 50 Hz of nominal, an exceptionally good result. Slightly disappointing was the measured deviation at only  $\pm 0.92$  KHz. The HO recommend  $\pm 1.5$  KHz with a maximum of  $\pm 2.5$  KHz, so Cybernet are not taking full advantage of the HO specs. The cure for this is fairly well known, simply turn up the deviation pot (RV2) a bit. However this should only be attempted by those with a deviation meter. Over deviation will not only annoy people on adjacent channels, but cause distortion of the received audio on selective receivers. So far from making yourself more audible you could end up making yourself less audible!

Moving on to the receiver, the sensitivity was 0.3  $\mu$ V PD for 10 dB s/n. In the Loc mode this was reduced to 2.2 $\mu$ V. Max squelch level was 25  $\mu$ V in Dx and 600  $\mu$ V in Loc. These are quite reasonable figures, indicating good sensitivity, good squelch range and a reasonable range on the Dx/Loc control.

The LED metering gave the following readings in Dx (Loc figures in brackets): S1 = 0.9  $\mu$ V (70  $\mu$ V), S2 = 2.2  $\mu$ V (90  $\mu$ V), S3 = 7  $\mu$ V (220  $\mu$ V), and S4 = 560  $\mu$ V (2.2 mV).

Generally a quite satisfactory performance, with the possible exception of the rather low deviation. This would have the effect of making the modulation sound rather faint at the receiving station.

## On the Air.

The rig was used for a period of several weeks both mobile and as a home based installation and performed reliably throughout. The small size made installation a doddle! However, there is a price to be paid for compactness and this is in the loudspeaker department. The speaker is very small and the small box doesn't really help much. It's just about adequate in a quiet car, but a larger external unit is strongly recommended. Once this is done, the audio quality is excellent. The Cybernet is one of the few FM rigs where the audio doesn't sound harsh when the signal strength drops a bit. It is very pleasant to listen to for long periods—a marked

contrast to some of its competitors.

On the transmit side the audio is also excellent. Once we had reset the deviation to the correct level, many of the stations we contacted wanted to know what kind of power we were using. The answer surprised them more than a little! The transmitted audio is absolutely crystal clear. We've criticised many times the practice of fitting power mikes to FM rigs. It nearly always results in louder, but far less clear modulation.

You either love LEDs or you hate them. My own preference is for an ordinary meter provided it is clear and accurate. Most CB meters insist on using red pointers against a black background. These are usually almost invisible. Furthermore the variation in calibration in these meters is staggering. An S9 signal on one rig may not lift the needle off the end stop on another! So on balance I'll stick with the LEDs. At least they don't pretend to be something they're not! The squelch worked well enough, although being level operated it could be fooled by several signals on channel at once. Also it has no hysteresis so it tends to rumble a bit when hovering about its threshold. This is most noticeable when listening at low levels (ie. late at night and trying not to disturb the rest of the family!).

The swamping performance was very good, although perhaps not as good as some of the latest 'super' rigs, such as the Magpie and Radio Technic Supertuned DNT M40. Nonetheless, it can acquit itself honourably in most circumstances. It takes quite a strong signal to 'de-sense' it significantly.

Prices of these rigs have fallen dramatically in recent months, so be prepared to shop around for the best deal. We have heard reports of them going in sales for £16, at which price they must be the buy of the century! When CB was first legalised I purchased a Cybernet Beta 3000. I have not regretted that decision. It has now been fitted with a crystal filter and an Ambit Noise squelch kit and can now match the performance of even the 'super' rigs. The 1000 and 2000 are almost identical in the important respects and can be modified in a similar manner. They are excellent rigs as supplied, and with a little careful work can be made to match the performance of rigs costing over twice as much. Need we say more?

Our thanks to Goodmans Loudspeakers Limited for providing the sample tested.

**CB**

## RIG REVIEW DATA PANEL

Model **CYBERNET 2000**  
Distributor **Goodmans Loudspeakers Ltd**  
Typical Price **See text!**

Features	Yes	No
PA Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>
External Speaker Jack	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TX Indicator Light	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RX Indicator Light	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PA Indicator Light	<input checked="" type="checkbox"/>	<input type="checkbox"/>
S/RF Meter LEDs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hi/Lo Power Switch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ANL/NB Switch	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CH9 Switch	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Variable RF Gain	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mike Gain	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Delta Tune	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tone Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LED Channel Readout	<input checked="" type="checkbox"/>	<input type="checkbox"/>

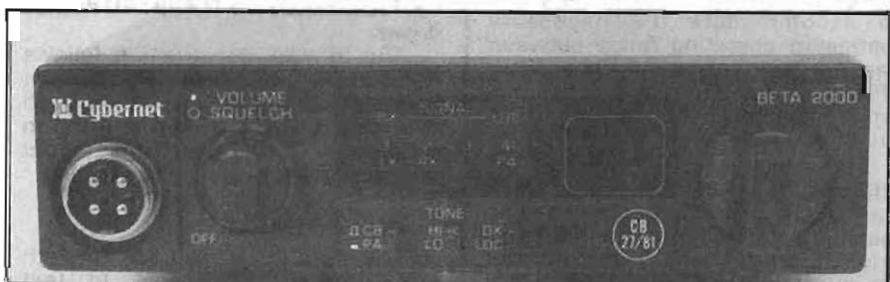
Facilities	Superb	Good	Fair	Poor
Ease Of Controls	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Built in Speaker	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Microphone Location	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cabinet Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality Of Control Switches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel Indicator Readability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mounting Bracket	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hand Book/Instructions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Specifications	
Modes Of Operation	FM Only
No. Of Channels	40
Weight	—
Dimensions	147mm x 188 x 38mm
Supply Voltage	13.8v
RF Output Power	4 W
Frequency Stability	Excellent
Swamping	Good
Sensitivity (RX)	Good
Spurious Emissions	In Spec

## CB VERDICT

Range	XXXX
Clarity of TX	XXXXX
Clarity of RX	XXXX
Ease Of Controls	XXXX
Ease Of Installation	XXXX
Performance	XXXX

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



Cybernet Beta 2000



# TWONG

JOHN RICHARDSON

GAWSH! LOOKIT OUR HERO! HE JUS' SITTING THERE! WHY IS HE NOT OUT THERE BEIN' WORSHIPPED? WHY IS HE NOT OUT THERE BEIN' ADORED? 'COS HE DOESN'T GIVE A TOSS, IS WHY! HE BORED!

BORED! OO...

BORED ALSO!

HELLO, MY HERO! TIS I, RAGDOLL, YOUR NUMBER ONE FAN!

WOT'S UP?

FLY! OO...

FLY!

OH, SORRY! I FORGOT THAT YOU CAN'T TALK EXCEPT THROUGH C.B.! MUST BE PRETTY BORIN' BEIN' DEAF TOO!

HE SAID UP THERE ABOV' AN' GRAB FLY!

SPIDER SCREAM SPIDER SPIDER! SPIDER!! SPIDER!! SUREK! SPIDER! SPIDER! SPIDER!! SPIDER!!

WHERE'S WHERE?



DON'T MOVE...

I'LL GET IT!

SUDEN HORRENDOUS SHOCK!



MY HERO...

YOU SPOKE!!

SPOKIN' MAKES MY HEAD HURT!

BUT I THINK I LIKE IT!

I THINK I'LL GO SPOKE TO SOME MORTALS AN' SEE IF IT MAKES THEIR HEADS HURT!

AND SO OUR HERO, THE GODLING TWONG, HE WHO FELL FROM THE HEAVENS, HE WHO THEY WON'T LET BACK IN, HE WHO IS WORSHIPPED BY C.B.ERS HE WHO HAS JUST LEARNED TO SPEAK, - PICKS UP A CALL...

AH! A MORTAL WISHES TO MAKE SPOKE! TWONG WILL ASK HIM IF HIS HEAD HURTS TOO!

SCUSE ME, MORTAL! DOES YOUR HEAD HURT TOO?

OOOPS! TWONG MAKE MORTALS EAR-THING'S HURT! MEBBE TWONG MAKE SPOKE TOO LOUD!

SPOKIN' SURE IS TRICKY STUFF TO DO! NEX' TIME TWONG MAKE SPOKE IN A WHISPER!

BREAKER-BREAK! ANYONE FOR A COPY? C'MON!



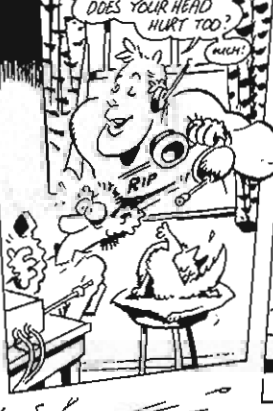
WOSAT?

OUP! MY HEAD!



EH? WOT?

EH? WOT?



EH? WOT?

EH? WOT?



EH? WOT?

EH? WOT?



ME TRY AGAIN ON THIS ANCIENT ONE!

WHISPER

EXCUSE ME, MORTAL! DOES YOUR HEAD HURT WHEN...

EH? WOT?

EH? WOT?

I SAID, DOES YOUR HEAD...

WOSAT?!

E SAID...

CROWD GATHERIN'!

SPEAK UP, Y'DANG YOUNG FOOL!!



I SAID...

DOES YOUR HEAD HURT TOO?

FULL!

LOONY!

LOOPY!

LOOPY!

LOOPY!

LOOPY!

LOOPY!

LOOPY!

LOOPY!

LOOPY!

LOOPY!

LOOPY!



SO THEY CALLED THE POLICE BUT TWONG WOULDN'T TALK SO THEY GAVE HIM THIRTY PAYS FOR STAYIN' SATUM AND FOR FOULIN' THE PAVEMENT...



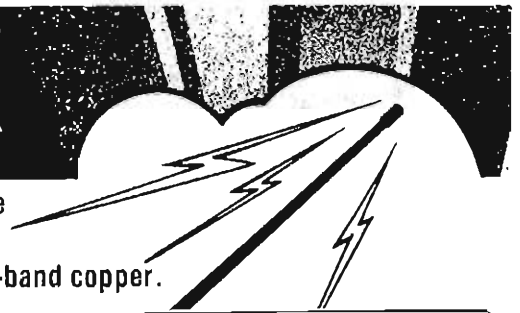
... NOW HE'S BORED AGAIN!

SPIDER!

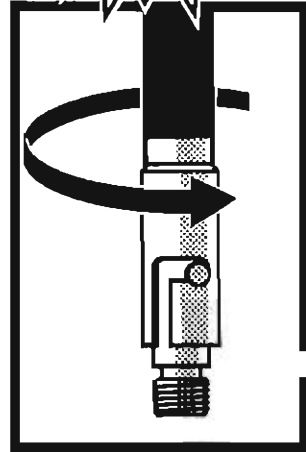
# THUNDERSTICK

MOBILE

When you live life in the fast lane, you need the LEGAL antenna with the super-tough macho looks.



**NEW**



- Fibreglass whip encased in 1.5m of broad-band copper.
- Individually pre-tuned SWR.
- Chrome-plated, quick 1/4-turn disconnect for security (see inset).
- BIG POWER handling — tested to over 1000 watts R.F. power.
- Suitable for all modes — AM, FM, SSB.
- Rugged construction.
- Widest range of colours: Clear copper, yellow, black, red and royal blue.
- Fits any standard 3/8in. UNF mount.

■ A real value-for-money antenna — just **£12.95** incl. VAT + carriage **£3.95**; and each antenna is individually guaranteed.

Contact us today or ask at your local CB stockist.

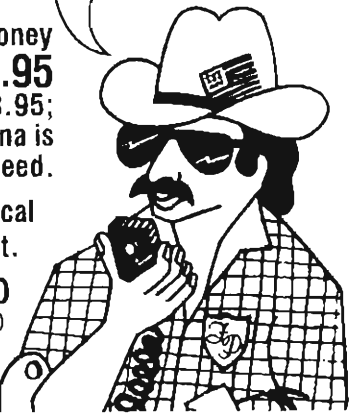
**THUNDERPOLE ANTENNA U.K. LTD**

(A subsidiary of Freeman & Pardoe Ltd)

Tything Road, Arden Forest Industrial Estate  
ALCESTER, Warks. B49 6ES. Phone: (0789) 762 673.

British Patent App. No. 8304169.

*"Hi Breakers! Tex Thunder here! Have you eyeballed our new THUNDERSTICK, the red-hot legal-but broad-band-mobile twig? ...Capable of zapping out over 1000 watts of power — fair-tas-STICK!"*



## MAIL ORDER PROTECTION SCHEME

If you order goods from Mail Order Advertisers in this magazine and pay by post in advance of delivery, this publication will consider you for compensation if the advertiser should become insolvent or bankrupt, provided:

1. You have not received the goods or had your money returned; and
2. You write to the publisher of this publication explaining the position not earlier than 28 days from the day you sent your order and not later than 2 months from that day.

Please do not wait until the last moment to inform us. When you write, we will tell you how to make your claim and what evidence of payment is required.

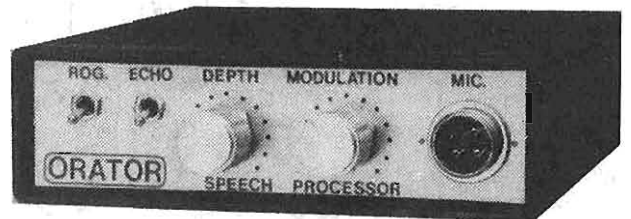
We guarantee to meet claims from readers made in accordance with the above procedure as soon as possible after the advertiser has been declared bankrupt or insolvent to a limit of £1,800 per annum for any one advertiser, so affected, and up to £5,400 p.a. in respect of all insolvent advertisers. Claims may be paid for higher amounts, or when the above procedures have not been complied with, at the discretion of this publication, but we do not guarantee to do so in view of the need to set some limit to this commitment and to learn quickly of reader's difficulties.

This guarantee covers only advance payment sent in direct response to an advertisement in this magazine (not, for example, payments made in response to catalogues, etc, received as a result of answering such advertisements):

**CLASSIFIED ADVERTISEMENTS ARE EXCLUDED.**

## "TALK POWER"

WITH THE ORATOR!  
VOGAD SPEECH PROCESSOR



F.M.

A.M.

S.S.B.

**ORATOR DXA..... £24.50 + 2.50 p&p**

This attractively designed instrument houses state of the art micro chip technology to produce a Vogad speech compressor — limiter and a switchable Roger Bleep. It allows precise control of the modulation to enhance the intelligibility of your speech. Turns an ordinary dynamic mic into a sophisticated power mic.

**ORATOR DLA..... £38.50 + 2.50 p&p**

This unit has in addition to the above specifications a variable repeat feedback echo. A really useful facility when competing for air space.

SEND CHEQUES, P.O., M.O., GIRO, TO:

**Micro Electronic Systems**

Telephone 0642 829238

Martin Buildings, Stonehouse St, Middlesborough, Cleveland.

Often copied never equalled

# LADY BREAKERS



**Philadelphia Judd —  
Filly to her friends  
— is mobile and on  
channel. Mike  
Fright is a bad  
dream of a long ago  
yesterday and now  
she is taking a  
special look at  
some of the pro-  
blems faced by  
Lady Breakers —  
and waiting to hear  
from you.**

**Letters please to  
Philadelphia Judd at 145  
Charing Cross Road,  
London WC2 and marked  
clearly LADY BREAKERS  
PAGE.**

I have had plenty of time to discover that we lady breakers, rational and capable as we are, face our own very special problems. Perhaps I should start with the one faced by so many married would-be breakers — the Hostile Husband. Hostile to CB, that is. (I might add that I write from absolutely first-hand experience — I'm married to one).

Now, if you are determined to install and operate a CB radio in the marital car — and why shouldn't you? — and your mate chooses to take exception, then the best thing to do is start working on him before you actually intend to buy your rig. If you give it long enough you should be able to get him resigned to the idea, and chances are you'll even get him interested. If he decides to assume an attitude of lofty indifference, muttering 'kiddies' toys' under his breath from time to time, don't worry. Go ahead and get your rig, let it sit tantalisingly in the car for a month or so, and you'll catch him one night sitting hunched in a blanket, trying to take it to pieces to see how it works. *Then you've got him.*

## Channel Flannel

You may, however, have a husband who's as stubborn as a mule once he's made up his mind, in which case you have my heartfelt sympathies. If you can bring yourself to do it, swallow your pride and ask him — all sweet and helpless — to help you install the rig. If he agrees, he'll be hooked. If, however, you're like me and you'd sooner die, you'll have to be sneaky. Try and get a mate of his interested and invite him round one evening. Then spend the whole time discussing CB matters, preferably in an informed and mysterious way. Your husband will be piqued, and will certainly not like you knowing so much about something he doesn't. When he's wavering, but can't yet condescend to express an interest, suggest a compromise — agree not to use the radio when you're both in the car, perhaps. This will be frustrating, but it shouldn't be for too long. Once the set's in the car, sooner or later curiosity will get the better of him, and that's the secret in dealing with recalcitrant husbands. Present them with a *fait accompli* — once the rig's sitting in the car, their love of gadgets will do the rest. Wait for mention of a new unidentified breaker in the district — that'll be him.

Should you be married to a real hard nut who turns purple at the very thought of CB, threatening to throw any CB equipment that appears in *his* house straight in the river, then the only thing to do, short of throwing the rig at his head, is get your own car and install it in that. Then he can be as opposed as he

likes because it'll be none of his business!

So let us now hope you are the proud owner of one of these marvellous pieces of equipment, all set to embark on the airwaves. Great — but first, a few words of warning. Sooner or later, a certain phenomenon will rear its ugly head — *Sexual Harassment*. Yes, you've met it in the office, on the bus, in the train, on the street. Now you will meet it over the air!

Most veterans are usually hardbitten and can handle this, even laugh it off. But it can be most disconcerting when you're just starting out, and a particularly unpleasant incident could make the sensitive want to pack the whole thing in. I will have more to say on this subject, but to understand the sort of thing I'm talking about, try driving into the centre of town about 9pm on Saturday night and switching to a busy channel. *The Great Saturday Night Pick-Up* will probably be in full swing.

There are, of course, many male breakers who are out for nothing more than a friendly chat, and their little jokes and risqué remarks should not be misconstrued. The ones to watch out for have more murky intentions, and with experience you should be able to spot them quickly.

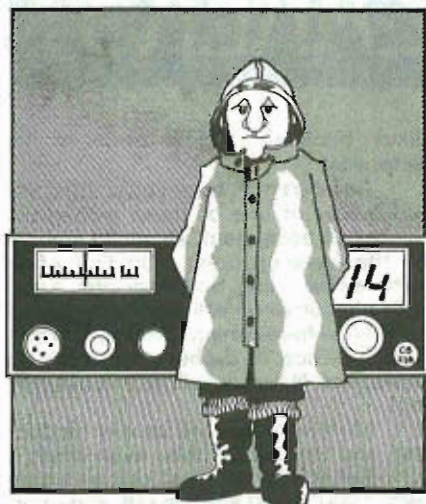
## Choice Voice

The main thing to remember is, if you have any doubts whatsoever about where a conversation is leading, simply end it. It's easy. Avoid getting tangled in a war of words or a slanging match — don't forget that other people can hear you and you don't want to be led into saying something you'll lie awake at night regretting. If you find yourself getting heated, come off the air — when CB stops being fun it's pointless going on. You'll have the support of other breakers, and if you get into difficulties, more often than not someone will muscle in on the conversation and help you out. There won't always be other breakers around, however, so if you are not inspired to hand out a stinging onliner, then switch off.

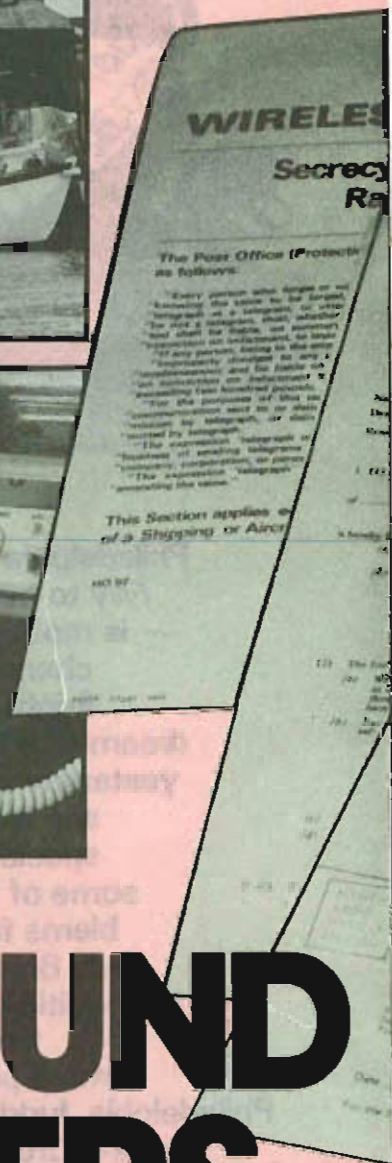
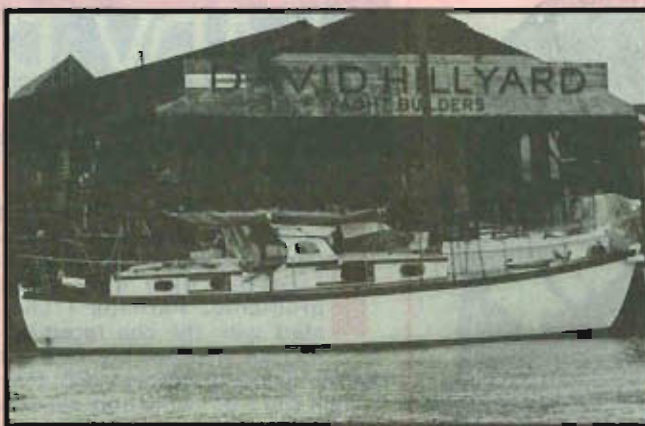
It's usually obvious when someone is out to pick you up, and if you don't like the idea, make it clear. Tread warily when talking to an unfamiliar male, especially on Saturday night. Don't, for example, let them get an eyeball on you — if you're unlucky, you could find yourself being followed. Don't give away too much about yourself too soon, and be careful who you agree to meet.

A lot of this will be perfectly obvious to anyone of above-moron intelligence, but if you're new and nervous, it's not always easy to remember the sensible thing to do when faced with a difficult situation.

**CB**



CB at sea can be fun if used wisely—misuse can endanger lives. We look at both sides of the coin and listen to some sound advice from HM Coastguard and REACT...



# SEABOUND BREAKERS

**Y**ou have probably heard it a thousand times already but with summer and the start of the pleasure boat-season just around the corner it bears repeating

**DO NOT COUNT ON YOUR CB AT SEA!** If you ignore this sound advice then don't blame the Coastguard if they do not respond to your little stream of bubbles as you go down for the third time gurgling a 10.33 into your sea-soaked microphone. They won't be ignoring you as, in all probability, they won't have heard you. They simply do not monitor channel 9 CB.

Don't blame the RNLI either—usually the only person to blame is yourself. Lost or sinking pleasure craft are generally down to dodgy users

anyway. Inexperienced sailors in ill-equipped and poorly maintained craft who will not bother to spend a few pounds on charts, a few pence on a landline call to check the weather, who take their boats where they were never intended to go or who do not listen to local advice or the guidance of the marina staff.

If you want a fairly cast iron guarantee that the appropriate services will receive your distress call then you must install VHF Marine Band equipment where the emergency channel 16 is monitored by the Coastguard. Mind you, it will cost you around £250 and you will have to get yourself tested and licenced in order to use it. I'm told this isn't a mind-bending chore and, if you are determined to go down to the sea in



## Is There a Place For CB At Sea?

Well, that's the heavy part over with and the message should be clear enough to any water bound breakers. But does this really rule out the idea of taking your CB to sea? Of course not. Providing that you are fully aware of its limitations CB certainly adds more fun to boating.

Last summer I traced a huge shoal of mackerel through copying another seaborne breaker who was sitting right on top of the fish and hauling 'em in by the line full. Whereas I had spent an hour and precious fuel wandering the waters off the South Coast in a vain search. That breaker was feathering off the sewer buoy—which made good sense when I thought about it.

After another hour I was knee deep in fish and 'breakers on the side'. Those hooked fish all went to frying pans and freezers—many to local old people. The rig I was using at that time—a **Tandy TRC 1001**—makes an ideal 'on board' CB. On a small boat the full length antenna could take out the unwary eyeball and, I suppose, it could also double as a spinning rod!

## Cook Your Catch!

A culinary tip here—Ah CB opens many doors! First catch your mackerel. Pop the fish into a pan filled with seawater—for those of a more adventurous spirit, take the seawater from around the sewer buoy—stick it on the boat's cooker and put a lid on it. After five minutes or so take out the fish and eat it. It won't need any salt added. *Deelicious!* Fresh from the sea and bobbing up and down in your boat it's the only way to eat 'em.

Fanny Craddock, eat your heart out!

You will be surprised at just how many other boats out there will be equipped with CBs and what good copies you can receive from land-based stations—home or mobile. Always fun to tell them your 'rough twenty'.

I've borrowed fuel at sea and transferred a fed up, desperate and greenish tinted fellow fisherman to a shore bound boat—when I was reluctant to leave a 'hot' spot—and given a tow to a propellerless cruiser, all with the help of a CB radio.

Yes, CB at sea is fun and it is to be expected that this summer there will be many more breakers breaking away among the breakers. It is fun and just may give you that edge in an emergency. If by some misfortune you do find yourself with a dead engine, or worse, and you do raise a land based CBER just keep your fingers crossed that it isn't a wally.

Take your CB to sea, you certainly won't be alone out there but, do not necessarily expect it to save your life—'cos they don't float. *We are hoping, in the very near future, to bring you news of a CB rig specifically designed for use in all small boats.*

**CB**

ships—then it must be worth the effort.

**REACT—Radio Emergency Associated Citizens Teams**—make it clear in their excellent **Monitoring Manual** that CB is no substitute for VHF Marine which is monitored around the clock by the Coastguard. However, as a craft in difficulty is very often spotted by a landlubber, a CB call to REACT can produce swift results if a working telephone is not available—if it is then 999 is the number to dial.

Captain PKC Harris of HM Coastguard recognises the role of CB and trained monitors in the forward to the manual. . . . *So any means of relaying facts from the victim, or witnesses, to the rescue services accurately and reliably is welcomed. The United Kingdom has always been*

*fortunate in having a supply of volunteers prepared to undergo training and to give their time in order to help the lifesaving services.'*

## REACT

REACT also stress that, *if an RAF rescue helicopter is involved in a rescue and a winchman is being lowered, radio silence must be maintained as it is possible that a 27MHz transmission in the vicinity of the rescue can seriously interfere with the pilot/winchman intercom, thus creating extreme danger for the helicopter and its crew and impair the rescue attempt.* So even, if it was your call that alerted the Coastguard to the emergency, your CB job is over.

## Equipment Review



**Cordless phones will soon be legal. Sara Pearson has been out and about talking to those in the know—and she has come up with some hot info . . .**

# CORDLE PHONES

## a promising future

**A**s predicted in last month's issue of CB Magazine we now know the names of the manufacturers who have had their cordless phones accepted for final testing by the Department of Industry prior to approval.

The list makes interesting reading as there are only two major telecommunications companies on it—Plessey and Fidelity. The other three companies are relatively small and little known outside the industry. These three are Geemarc, Conversation Pieces and Answercall.

Of the nineteen companies which submitted applications for approval of cordless phones in October 1982, the above five manufacturers have had a total of eight items of equipment accepted for the final testing stage. It is likely that at least four of the five manufacturers will pass the testing within the next six months. So at last it seems possible to put a date on the first time an approved cordless phone is likely to be available in the shops.

Now that the runners have been declared the race is really on. Nicholas Pearce of the Telephone Box chain of shops in Central London reckons that, as expected, British Telecom will pass the chequered flag first with their cordless phone. *"The BT model has been developed by Fidelity and the industry expects to see an approved version available as early as April or May. Of the independent companies, it is likely to be late summer before their versions of approved cordless phones will be on the market"*.

What can we expect from the approved models coming on to the market and at what sort of price? Malcolm Percival of Conversation Pieces believes that the total market for approved cordless phones is probably going to be around 80,000 units in the first year. He says: *"My cordless has a ten memory facility, two-way intercom and hands-free dialling facility and I expect to pitch the price at the lower end of the market."*

The subject of price is an interesting one. Inevitably, the price of early approved cordless phones will be disproportionately high as manufacturers will have to off-load the costs of achieving approval—which, incidentally is not cheap! This is likely to add as much as 30% on the cost of the same model which is not approved. A good example is the correlation between approved and unapproved telephone answering machines.

Answering machines were the earliest pieces of independent telecommunications equipment to gain approval. Once this had been achieved the difference in price between two outwardly identical machines was often as much as £80 extra for the one which carried the approved tag. A similar price variance is expected with cordless phones but curiously this will also have an interesting effect on the market.

**The Pacer 7800  
a handsome  
handful**



# SS



The fact is, people have been reluctant to buy cordless phones as most people have, by nature, a healthy respect for that unknown quantity—the Home Office! However, once the publicity surrounding the approval of cordless phones permeates the different layers of society it is expected that a large number of potential purchasers will emerge. It is at this point that it will become especially interesting.

If, once a customer has arrived in a shop to buy a cordless phone, he is presented with a choice of two with a price difference of up to a third more for an approved label, which one will he buy? If telephone answering machines are anything to go on it is likely that the monetary saving will be more than a little persuasive. After all, to have a cordless phone at this moment, prior to approval, is rather like having a sore thumb. However, once there are approved models on the market is it really likely, or indeed practical that British Telecom will embark on a witch-hunt for users of unapproved models?

## Product Marketing

As to how the overall cordless phone market develops will depend greatly on the way the product is marketed after its approval. Independent telecommunications has had a varied history to date and has not married well with other industries. Take for example the experiences of Dixons, who entered the market with a good deal of razzmatazz about eighteen months ago with a range of telephone equipment. They supported it well with, what was to be, the first national press advertising campaign for independent telephones and generally achieved a high level of awareness. Yet success on a grand scale was to elude them and the result is that their remaining equipment is now being sold off with no immediate plans for further forays into telecommunications.

Bill Curtis, Special Products' Sales Manager at Fidelity believes that cordless phones will be seen by both the public and the trade as a popular consumer durable rather than as a telephone. With this in mind he reckons that major retailers like Rumbelows and Currys will be prime retail outlets for approved cordless phones and that the product will become highly desirable and in many cases the result of impulse purchasing.

Fidelity, who initially won the contract to produce a cordless phone for BT, believe their success was based on the sound British pedigree of their product. Designed and manufactured in Acton in North London, only a small percentage of the components are from abroad. They agree that their success with British Telecom will help to ensure that their model, under the Fidelity label, will be the first on the market and hope to achieve the kind of head start necessary to gain market leadership.

It is generally felt that the Department of Industry requirement for a percentage of all telephone equipment to be manufactured in this country was slightly abused by the first batch of companies to gain approval for telephones last summer. After all it was a significant part of the early legislation that liberalisation should encourage British industry and create job opportunities.

Unfortunately it was not possible to talk to the other three companies who have products for testing. Answercall were not available for comment and the relevant people at Plessey and Geemarc were involved in meetings.

Nicholas Pearce says: "There is a lot of speculation going on in the market at present, mostly by companies who are still on the sidelines just waiting for the off once they get the approval. Inevitably in this tense run-up people are going to contradict each other but I reckon that I know the market better than most as I have lived with the retail side now for nearly three years."

"For a start, approvals will open up the market and for that I am very glad. But it will open it up both for the approved and non-approved models. I shall be carrying stock of both, as I do a lot of business for export, and I expect that the current rate of sales of cordless phones, currently accounting for 30% of sales will increase fairly rapidly as the year progresses".

"I do believe that the cordless phone is going to be probably the most significant long-term consumer development in the telecommunications market. Fashions may come and go for other phones such as ornate instruments or high technology models but the cordless phone will grow and grow in popularity as its public awareness expands."

## Andy R Giles has been looking at three more cordless telephones PACER 7800

This is a very basic cordless telephone. The base unit is quite small, just slightly larger than the handset and it has been designed to either stand on a table or to be hung on a wall. It has a built-in telescopic antenna that swivels out from the side and it has a lead for connecting it to the telephone junction box. It does not have a mains lead because it operates on 18V dc. This is provided by a separate 18V 200mA power supply that is supplied with the unit. This is the first time that I have seen this arrangement and it seems a strange way of doing things, but it works. The base unit has four small lights on the front—one to show that the handset is being charged, one to show that the unit is in use to prevent the telephone handset being lifted while a call is in progress, one to show that the power is on and one to show that the SECURE button has been pressed. This facility prevents anyone gaining access to your telephone line with another handset

while yours is being recharged. There is also a CALL button that pages the remote unit so that it can be used as a cordless intercom.

The handset is powered by internal batteries that are recharged every time that it is replaced in the base unit. It also has a socket that allows it to be powered by an external 9V power supply. There are two tiny LEDs just above the two slider switches. One lights whenever the unit has been switched to TALK and the other lights to show that the batteries need recharging. One of the slider switches turns the unit off and adjusts the volume from LO to HI and the other switches the unit from STANDBY to TALK. There is a calculator style keypad for punching in the number and there is also a last number called re-dial button. The handset is supplied complete with a built-in telescopic antenna and a belt clip. The Pacer operates on 1.7 and 49 MHz and it has a quoted range of 500 metres. This seems a little optimistic but it may be true under ideal conditions.

This is a basic cordless telephone but it is compact and reasonable value at £149.

## CORDLESS PHONE REVIEW DATA PANEL

**Model** Pacer 7800  
**Distributor** Telephone Box  
**Typical Price** £149

Features	Yes	No
Rechargeable Batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IN?USE Lamp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intercom Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Auto Redial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Privacy Button	<input type="checkbox"/>	<input checked="" type="checkbox"/>
External Antenna Facility	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security Code	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hand Free Operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Range	500 metres	

### FREQUENCIES

49 MHz  
1.7 MHz



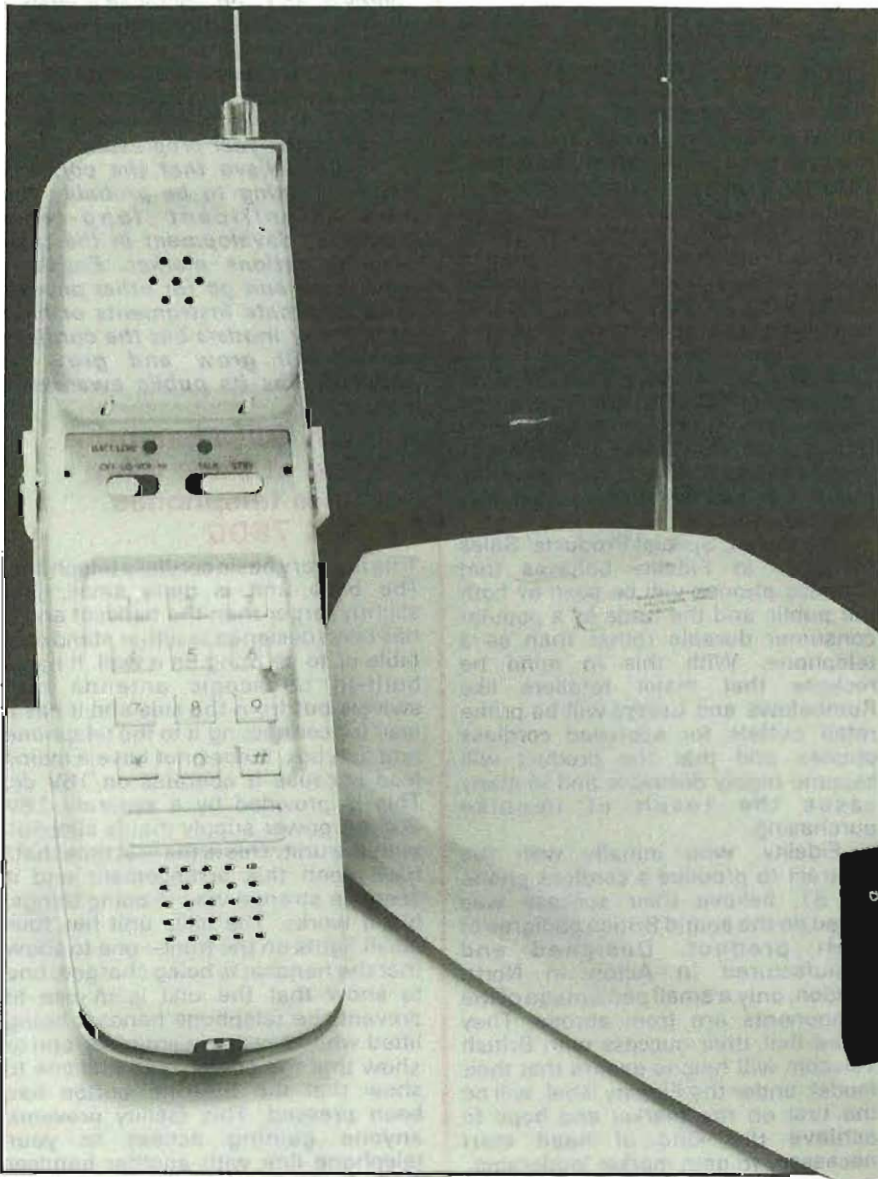
## Freedom Phone 3500

This is a very attractive cordless telephone. The base unit is very slim and has been designed to lay flat on a desk top. It has two leads—one for connection to the telephone line and one for the mains supply. It has three small indicator lamps—one to show that the power has been turned on, one to show that the unit is in use and one to indicate that the handset is being recharged. There is also a CALL button for paging the remote unit so that it can be used as an intercom. The only other feature of the base station is the built-in telescopic antenna.

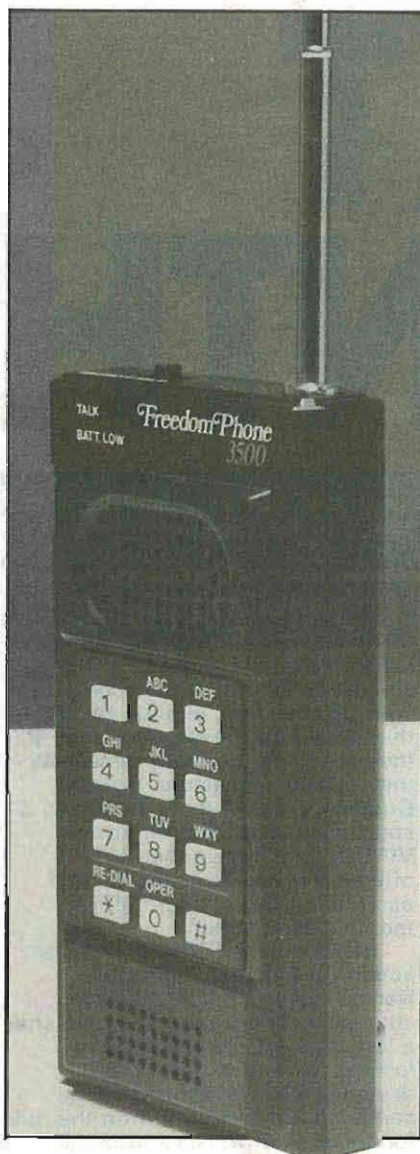
The most impressive feature of this model is the handset, it's tiny and has been very well designed. It is smaller than a lot of calculators and will easily fit into a jacket pocket. It has the usual numerical keypad for entering the telephone numbers as well as a last number called re-dial button. It is powered by internal batteries that are automatically recharged whenever the handset is replaced in the base unit. It has two small slider switches—one to turn the unit on and to switch it from STANDBY to TALK and one to adjust the volume. There are two indicator lamps—one to show that the batteries need recharging and one to show that the switch is in the TALK position.

This model operates on 1.7 and 49 MHz and has a quoted range of up to 600 feet, which seems reasonable, although this will depend on local operating conditions.

This set has very few of the exotic features that can be found on some of the more expensive models but the size of the handset makes this a very desirable model, especially at £199.







## Shuttle Ace 7000

This cordless telephone is very expensive—£650—but it does have a lot of facilities. The base station is quite large, matt black and stylishly designed. It has five LEDs on the front panel—one to show that the power is turned on, one to show that the unit is in use and there is a call in progress, one that lights when the CALL button is pressed, one to show that a battery cassette is being charged and one to show that the intercom facility is in use. There are also four pushbuttons—one to turn the power on and off, a CALL button to page the remote unit and two to set and reset the intercom facility. On the right-hand side of the faceplate there is a receptacle for a battery pack. These are used to power the remote unit and two are supplied with this model. This allows one to be left on charge while the other is being used and this means that a fully charged battery is always available. The base unit has an integral lead and it is supplied with a patch lead for connecting it to the telephone line. It does not have a built-in antenna, instead there is a standard SO 239 socket on the back. This allows you to plug in one of the antennas that are supplied with the set. The smallest one is a centre loaded whip that plugs straight into the rear of the base station and the other is an outdoor antenna that comes complete with a mounting bracket, clamps and a length of co-axial cable. Naturally the range is greater with the external antenna and the manufacturers claim that this will give up to 12Km as opposed to the 2Km claimed for the smaller antenna.

The handset, which is the largest that I have come across, is supplied with three antennas. The smallest is a rubber ducky type which screws into a socket on the top of the unit. The next largest can be fitted into the same socket instead of the rubber duck. It is telescopic with a centre loading coil and improves the range considerably. The third one is a mag mounted car antenna that comes complete with a length of co-ax with a plug on the end that fits into a socket on the back of the handset. This increases the range yet again. There is also the usual style of keypad with a re-dial facility. There are three lights on the handset—one to show that it is on STANDBY, one to show that it is in the TALK mode and one that lights whenever the CALL button is pressed. The handset has its own CALL button so that an intercom

### Long Range

call can be initiated from the remote. There is also a Noise Cancel button that functions in much the same way as a noise blanker on a CB rig, it helps to cut out some of the interference.

This is a bulky handset that is awkward to carry but that is a small price to pay for the increased range. Unfortunately £650 is not such a small price but if you want the range you will have to pay for it. One of the reasons why this model works so well is that it



operates on 70 and 49 MHz but potential users should note that this model uses a part of the 70 MHz band that has just been allocated for Home Office use. You could end up with some pretty unpleasant wrong numbers.

## CORDLESS PHONE REVIEW DATA PANEL

Model Shuttle Ace  
Distributor Telephone Box  
Typical Price £650

Features	Yes	No
Rechargeable Batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IN?USE Lamp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intercom Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Auto Redial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Privacy Button	<input type="checkbox"/>	<input checked="" type="checkbox"/>
External Antenna Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Code	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hand Free Operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Range	2km	

### FREQUENCIES

49 MHz  
70 MHz

Use of external antenna will increase the range.

## CORDLESS PHONE REVIEW DATA PANEL

Model Freedom Phone 3500  
Distributor Telephone Box  
Typical Price £199

Features	Yes	No
Rechargeable Batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IN?USE Lamp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intercom Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Auto Redial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Privacy Button	<input type="checkbox"/>	<input checked="" type="checkbox"/>
External Antenna Facility	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security Code	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hand Free Operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Range	600 ft	

### FREQUENCIES

49 MHz  
1.7 MHz

We would like to point out to potential users that, at present, use of cordless phones is prohibited and it is not our intention to encourage people in their usage.

CB

JUNE  
ISSUE WILL BE ON SALE  
FRIDAY  
**20**  
MAY

# NEXT MONTH

The articles mentioned are in an advanced state of preparation but circumstances may affect the final contents

June is going to be a very big month for your favourite CB magazine. We promised you something special and we do like to keep our promises. CB reporters have been seen—late into the night—bent backed over their ancient typewriters tapping out copy for this very special issue.

So what is so startling about the June issue? Well for openers—Chris Petersen will tell you in a special feature what are, in his opinion, the best performers in the mobile world of CB. Rigs that he has tested for this magazine since FM UK became legal.

**Smart Alec**—apart from answering more or your tricky questions—will be voicing his opinion on the best hand-held and emergency rig.

**Brian W. Wright** will be measuring some of his antennas and

telling you of the top five tested since L-Day. Mobile, Home Base and one little surprise that should interest AMers who have gone legal but still have a big twig locked away in their shed.

**Medicman**—Mike Newbold—has something special in the way of new QSL cards and will be passing the gen on to you fellow card swoppers.

**Mack the Hack** still has a few words to say and **Twong** is still on the brown ale. **Back Chat** is still your page—**Kevin Whitchurch** is still your man about the clubs and **Citizens' Band** still runs the best competitions in town. Watch out for the June competition it's very special and very prickly . . . Got ya guessing eh? But let's get this month's little puzzler on the road first!

WIN THIS TAPE . . .

## COMPETITION

When they make films for the cinema or TV that are concerned with CB they first, sign up the cars then they hire the stunters and—if they are felt to be really necessary—they appoint the actors. **Breaker Breaker** is one of those films and a super new video release from **VIPCO**, who have generously offered five copies as prizes, one each to the five winners of this month's competition.

**BREAKER BREAKER** is an all action CB film starring Chuck Norris—seven times US karate champion. Chuck returns home after a long stint on the road and is looking forward to some well deserved R&R. While resting he sends his kid brother out on the road for some short trips. Corrupt cops arrest the lad on a trumped-up charge and he is sent for trial before a bent Judge.

Chuck drives to Texas City to find out what is going on. He discovers it to be a ghost town run by a crooked and sadistic family who live by their own law. He sets about the task of bringing some real law and order by breaking a few rules himself—not to mention a few heads at the same time. *You don't muck around with an eighteen wheel trucker . . .*

All you have to do to win this super tape is to name seven films or TV shows that feature the use of CB radio. Just to show how generous we are you can count **Breaker Breaker** as number 1 . . . Rules as usual are printed in tiny writing at the bottom of the page! **One last thing—Due to a misprint in the MARCH issue we have extended the closing date for the SWR competition to the 20th May '83.**

Don't forget the rules. No employees of ASP are allowed to enter . . . we've all seen it anyway . . . Entries on a postcard only must be here by first post Friday 20th May '83. The Editor's decision is final, and don't forget your name and address and the \*format you would like if you are lucky enough to win. Entries to **BREAKER BREAKER COMPETITION**, Citizens Band, ASP Ltd, 145 Charing Cross Road, London WC2H 0EE. \*VHS/BETA/2000

**"Breaker! Breaker!"**

**"DON'T MUCK WITH A KARATE CHAMPION"**

Starring **CHUCK NORRIS** seven times U.S. karate champion

**VIPCO**

SEE YOURS ON REVERSE

WARNING: This product is not recommended for children under the age of 13. It contains violence, language, and some alcohol and drug use. Parents are urged to watch this product with their children and to discuss the material with them.

# Mack Chat

Mack the Hack looks backwards, forwards and sideways. He has some thoughts on telephone boxes, emergency monitors, 934 rigs, interference and Father Christmas . . .

Once upon a time, many years ago, CBers were naughty people who dashed around the countryside in motor cars happily chatting to breakers in this land and, sometimes, to other stations in foreign parts. These contacts with other stations were known as QSOs and, sometimes to confirm a contact it would be agreed to send each other QSL cards. So it became, for some people, an interesting part of the hobby to receive QSL cards from the many parts of the world that were worked. There were and still are many DX clubs and, to gain membership, one had to produce evidence of working stations in the different parts of the world. So again the achievement of gaining membership of these DX clubs was highly sought after. I'm not a 'killjoy' but to obtain QSL cards nowadays is an easy matter. There are many adverts for you to send off a bundle of your own cards and in exchange you should receive a bundle of different cards from other people. I receive, from time to time, letters and cards from other members of some DX clubs that I belong to just for exchanges. I know many people just exchange cards on a friendly basis but to my idea it seems pointless. QSL cards are to confirm a QSO, so what's the point of collecting cards if you have never worked the station that you get the cards from? Is it that people will collect cards just for the sake of having lots of pretty pictures decorating the walls of their room. Cards that one receives for confirmed QSOs at least, in many cases, tell a memorable story.

Guess what I thought I was going to get for a Christmas present last year? I had hoped for a 934 Mhz rig, but alas I'm still waiting. Has anybody got one? Some people say they have a friend that has a friend that has a set but I have not met anyone who has used one. Bee Ware of Harrogate who originally intended releasing their 934 rigs in December now say that there will be a short delay. I seem to have heard that before somewhere! The makers of the Magpie autoscans 5000CB, that all-British CB rig—(nice but very expensive)—told me on the telephone when I called them to confirm rumours that they were entering the 934 Mhz field 'that 934 could be a possible future development'. Who knows maybe I'll write to Santa, 'Please could you put a 934 Mhz rig in my sock for Xmas 1983 or '84 or '85?'

I would like to air my views on a couple of letters published in *Back Chat* recently. The first is a reply to 'Sparks of Lewisham' who says the channel 9, as an emergency channel, should be dropped in London as there are landline boxes every few hundred yards. Well the first most obvious answer is that there may be telephone boxes every few hundred yards but they are



not real ones. They are only pretend ones that are really disguises for public urinals or rubbish tips. Stories are told that a long time ago one could go into these strange red boxes—that are now protected ancient monuments—and with the equipment you used to find in them one could talk to other people in many parts of this country and even in foreign places. They tell me that sometimes you may find one of these boxes that still work but never when you want one. So 'Sparks' lay off channel 9 and the sooner it's made a legal emergency channel the better.

Whether it's in town or country Channel 9 does work sometimes. If you ask *Bubble and tweek* he will tell you it does. When the starter of his motor packed up a little while ago whilst in Clacton—with a car load of screaming kids—and an automatic gear box, the motor could not be started. So a call on the channel 9 brought the local 'REACT' team into action and with thanks to *Rooster* who found and fitted another starter motor the *Bubble and family*, managed to get home—later than planned—but safely. Just one of the many stories that I hear of channel 9 working.

## Interference

Also in *Back Chat* was a letter entitled *Cable fable* from *Modelmaker* of Littlehampton who goes on about the interference that could be caused if cable TV is introduced into this country. If interference is caused to CB and amateur radio, would not interference be caused in return to the cable TV system by CBers and Radio amateurs when they transmitted? One of the moans and groans of illegal 27Mhz AM CB was that it caused interference to paging systems, radio controlled models, and grannies' hearing aids. Yet when we were given a 27Mhz FM we were assured that this part of the frequency was away from other users yet I still hear odd tones, beeps, and burps emitting from my loudspeaker at times and it's not the wallies down the road doing their thing. So I wonder what interference I must be causing to other equipment when I legally key my mike?

Since writing that item on long wire antennas many people have shown interest in erecting such antennas for themselves. I have also had a few letters on the subject and some people ask how can they use horizontal polarisation whilst mobile? Well the simple answer is—with great difficulty. The long wire antenna is really only suitable for home base working. In a future issue will be a design for a simple long wire and matching balun from the *Bubble and Tweek*. If you are considering building a long wire then this is for you. Catch you on the horizontal.

CB



# EMERGENCY REACTiON

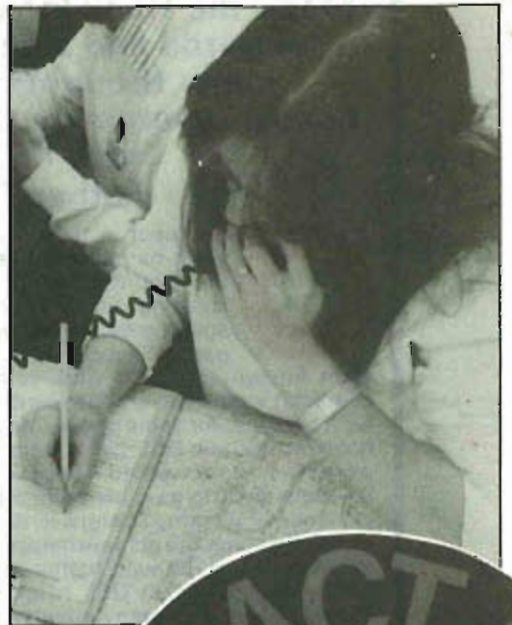
**Radio Emergency Associated Citizens' Teams—REACT to CBers—are on the other end of your CB radio to give you their help. Mike Newbold, REACT's National Training Officer tells you how the three hundred teams work and about a unique publication . . .**

**A** year and a half after legalisation of the British Citizens' Band Radio is a good time to take stock of the progress of the system.

In many areas Citizens' Band Radio has been readily accepted by the community not only as a useful means of communication and a fun hobby, but as a reliable means of summoning help when needed through an accepted Emergency Channel monitored by a trained REACT volunteer monitor. REACT UK currently comprises some 300 registered teams containing over 6000 volunteers who are prepared to give their time to monitor the Emergency Channel and offer trained help when and where it is needed.

The REACT Organisation from the outset insisted on total legality of operation, only allowing its service to be offered on legal FM. This policy has paid off handsomely, not only by being the *ONLY* emergency monitoring organisation to be fully recognised by the Home Office, but being fully endorsed by having a serving Police Officer on its Board of Directors.

REACT UK is a non-profit making, public service organisation that has set itself very high ideals, and a very high operational standard to professional level. Membership of REACT UK is only by the team concept and no individual membership is accepted, the main reason being that our highest priority to new volunteer emergency monitor operators is **TRAINING** and a thorough grounding can only be achieved by group study. The Teams are backed by a new publication, totally unique in the World, the **REACT UK EMERGENCY MONITORING MANUAL**, a highly informative book available to all members and containing a vast store of knowledge and information—having sections dealing with all aspects that are likely to be encountered whilst engaged in emergency monitoring. The book not only contains information as to correct radiotelephone procedure, but sections dealing with road accidents and emergencies, routine breakdowns, fires and Hazchem information, and a very important section on marine emergencies—fully endorsed by HM Coastguard as an outstanding contribution to Marine safety.



Already fully recognised by the Home Office, Police, Fire, Ambulance, Coastguard and Rescue authorities, REACT UK has established itself as an emergency link in a hitherto unknown communications system, linking the mobile citizens' band radio operator, via a REACT Emergency Monitoring Station, to the required emergency service or road service. It is a help organisation trained and prepared to deal with problems large or small and REACT monitors will respond to all calls for assistance on Channel 9 CB, on the basis that the caller would not be there unless he or she needed help. Even something as seemingly irrelevant as a request for the time is answered as the caller could well be a person who has to take medication at specific hours of the day. Total and unquestionable courtesy is practiced by all REACT monitors, to give a service which one would expect from a public servant.

From experience, unfortunately, it is true that in many of the larger towns and cities irresponsible CB users—mainly due to the frustration of not having sufficient channels to use—make use of the designated emergency channel thus preventing and causing grave interference to monitoring operations on that channel. Usually, in these cases where the recognised emergency channel is unusable, REACT monitors will normally extend their service to monitoring the local 14 Calling Channel or the 19 Mobile/Truckers' Channel.

Already dealing with an ever

increasing number of calls for their services, REACT monitors are actioning assistance and service calls for road conditions, road hazards, diversions, traffic jams, crime reports, vandalism, electricity failures, medical and family emergencies—thus providing a fast efficient link to the emergency authorities.

Much emphasis has been placed on *Marine Emer-gencies*, which is not really surprising being an island with 2500 miles of coastline. Many accidents and emer-gencies can and do happen. REACT policy makes it abundantly clear that it has no wish to become Auxillary Coastguards or, indeed, to replace or supplement Marine VHF channels, but a trained REACT monitor **MUST** know how to recognise a call for help or marine distress signal—irrespective of whether sent by radio, pyrotechnics or other means—and these signals might be received by someone on the coastline, or many miles inland. REACT fully recognise and deeply respect the law of the coast, and honour the existing services already efficiently in operation by HM Coastguard—we offer our services when there is no other means of communication in an incident.

Each REACT team is an autonomous self-contained and self-governing unit with both mobile and home stations and, whilst REACT's primary function is to monitor the Citizens' Band Emergency Channel, its expertise has already been in much demand to provide controlled communications for carnival

processions, county shows, large sporting events and the like. These community services illustrated the need for a private radio channel, as we felt it unfair to 'take over' a specific channel for any length of time, although most Breakers being responsible persons we're anxious to help keep the channel clear, there are the certain elements among our fraternity who are always hell-bent on sabotaging any operation.

Based on these findings the Home Office made an unprecedented step in the allocation of a PMR - VHF Channel for the use of REACT UK as we had well proved the need for a semi-private radio facility. This system is now being installed by REACT teams and will be available for use in emergencies and functions requiring some degree of privacy.

The REACT organisation published its own magazine called the REACTer which is edited by Vic Bull. It is issued to every member of REACT without any additional cost and contains News from the Teams, special reports, training sections, details of all recorded emergency calls and a general update of the REACT administration.

If you are interested in joining an existing team, or would like to form your own team—the minimum team strength is just five persons—contact **REACT UK HEADQUARTERS at 'Strathnaver', 142 Lutterworth Road, Nuneaton, Warwickshire CV11 6PE (Telephone: 0203 383005)** for full details. We look forward to hearing from you. **CB**



# Antenna Review



The K40 seems to have been around for as long as CB. Why is it considered by so many breakers to be the best? Brian W Wright—our antenna expert—puts it to the test and looks beyond the legend . . .



Operators of any type of radio communication equipment usually want, naturally, to get the clearest and most readable copy at the longest distance possible within the limitations of their equipment and CB is no exception to this. The most rigid restriction that the operator encounters is a transmitter power limitation. The power limitation may be either government imposed or simply the actual output power of the transmitter available. Several methods can be used to boost readability and thus operating range, but few are as effective as actually producing a stronger signal at the receiver (assuming that modulation levels are adequate). Fortunately there is a way of both increasing the effective radiated power and receiving sensitivity at the same time. This is achieved, as most of you know, by using a more effective antenna. Manufacturers make many claims about their antennas, but the real test is their popularity and duration in the market. The antenna featured this month has been around since the early AM days in this country and is still very popular. The K40 mobile antenna from American Antenna, is not a cheap aerial, so we decided to put it to the test on FM to see if it really is as good as is claimed.

The K40, like most antennas, can be fitted to many types of mounting base allowing installation to nearly every type of vehicle. A bootlip mounting base was used with the antenna tested. The method by which this aerial fits to the base is still one of the quickest methods yet devised by antenna manufacturers. It is, as time has proved, also very reliable in giving good positive connection even after long service. The antenna loading coil just simply pushes onto the base fitting and is secured by a short twist of the coil housing which snaps it

securely into place. The opposite action, of course removes it. The mounting base can be tilted to allow fitting to a sloping surface, but this must be done before final fixing to the vehicle. This tilting method is not quite so convenient as some that can be adjusted after fitting but is still very useful.

The loading coil itself is about 50 mm diameter which makes fitting and removing the antenna quite easy as it is big enough to give a good hand grip. The plastic material from which the coil housing is made is very tough and I have never seen one chipped or cracked even after long periods of use and abuse.

The stainless steel whip fits into a tapered chromed fitting at the top of the coil housing and is secured by a grub screw in the normal manner. Tuning the K40 is done by the common method of slackening the grub screw and adjusting the length of the whip. If it is too long—as it nearly always is for UK FM—being basically an AM antenna—the whip is cut down a small piece at a time. The SWR on the test sample came down to below 1.2:1 without too much difficulty.

The K40 looks very smart and business-like, when mounted on the vehicle, with its large but squat coil sitting on top of the large, chromed and half domed mount. The mounting base and coax, which is more than adequate to reach from the boot of a large car, are also supplied as you would expect with an antenna of this quality.

Performance was very impressive indeed, as you can see from the test pattern obtained. At one point during the test an S9 signal was received when the test vehicle was nearly 8 kilometres away, but this has been omitted from the map pattern for clarity. No problems were encountered in maintaining contact and a good clear signal was received throughout the test. Although some

# GIC

## ANTENNA REVIEW DATA PANEL

### SPECIFICATIONS

Model	K40
Type	Base Loaded Mobile
Length	1.5 Metres
Frequency Range	27-28 MHz
Max Power Handling	—
Impedance	50 ohms
Cable Supplied	Yes
Mounting Details	Any Type
Supplier	OCT
Typical Price	£32-50

antennas that we have tested appeared to match or even outperform the K40 when quick checks have been made at odd locations, it can easily be seen that the K40 is by far the best performance antenna that we have tested, for mobile use.

It is indeed a compliment to the original design of the K40 that this antenna has not, to our knowledge, been modified since we first saw it in the early days of AM in the UK. What is more impressive is that it is still maintaining its position amongst the top performing antennas even on UK FM, for which it was not originally designed. In fact, when UK FM was first introduced, the K40 was one of only a very few good performance antennas available that conformed to HO specifications.

### Conclusion

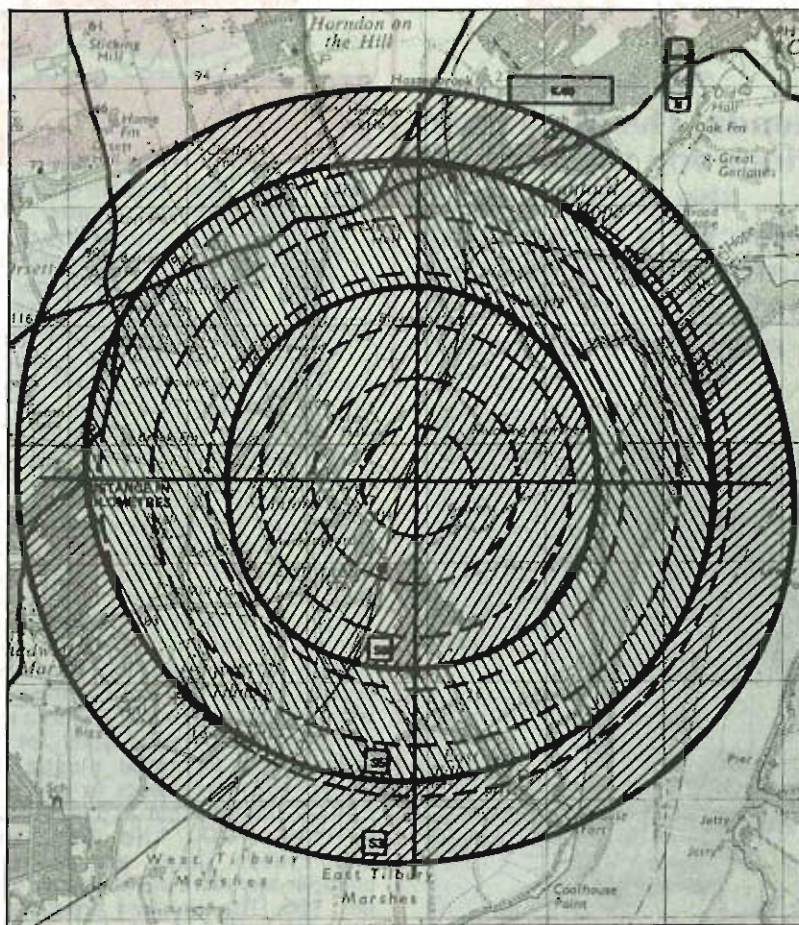
The K40 is a high performance antenna that will give years of reliable service if it is correctly installed. This has been proved by many breakers who have used the K40 since those far off days when a breaker was addressed as a Good Buddy and not as something unprintable as, sadly, is so often the case now.

Our thanks to OCT, for providing the sample antenna tested.

### Comparative Buy

The only other antenna we have tested that has come near to equalling the K40 in overall performance is the **Armstrong TAK 10**. A well made antenna that has the slight advantage of being discreet and does not advertise to the world that you have a CB in the mobile. However, both are 'top of the heap' antennas and either is a must for the serious mobile breaker. The K40 sells at around **£32.50** and OCT the distributors state that this price does include the much heralded double guarantee.

**CB**



### REVIEW VERDICT

Performance XXXXX  
SWR Adjustment XXX  
Construction XXXXX

Installation XXXX  
Instructions XXXX  
Value XXXX

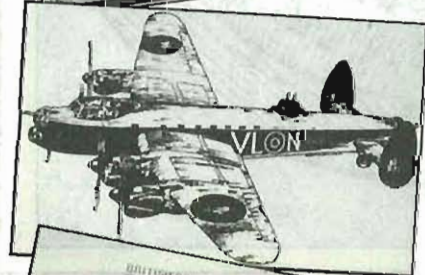
We rate our samples on a scale of one to five. Five stars is the highest rating, three and four stars are average to good and one and two stars mean it's not doing so well.

### The Tests

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



Old friends, new friends. The Medicman brings you the latest on the QSL scene. A collector's corner with some new and exciting cards on offer for both new and established QSLers . . .



# COMMUNICATION THE QSL WAY

**W**elcome once again to another *Communication the QSL Way* and thank you for all your hundreds of letters and cards received during the past month.

A short while ago we mentioned receiving a plastic QSL card, it was one of the first we had seen, and this aroused quite a bit of interest. Many of you wanted to know where these had come from and after a bit of research we tracked them down as originating at **Raymac Club Supplies of 91 Wills Crescent, Hounslow, Middlesex** and we were surprised to find that they do quite an extensive range, not only of plastic QSL cards, but also of rather nice handle cards, handle card holders, membership wallets and a variety of badges—all with the QSLer in mind. To quote some sample prices, for a batch of 100 individually designed plastic QSL Cards, you can expect to pay about £20.00 and a further £16.00 for every further 100. The PVC mini QSL/Eyeball Cards are somewhat cheaper and work out at about £12.00 per 100. The finished products are very attractive and I foresee Raymac plastic QSL Cards being in great demand. If you would like details of their products, just send a SAE and they will return you samples and a price list.

First regular QSL out of the bag this month comes from **Ken Shephard, W2043 P.O. Box 47D, New Malden, Surrey KT3 3EU**. Ken sends his thanks to us for starting a regular QSL feature in *Citizens' Band* and he QSLs with quite a distinctive card. Incidentally, I see he is a fellow member of the *Molesey Open Breakers Club* from **East Molesey** and he is, apparently, a member of quite a few other of the regular QSL Clubs around the world.

When a new Sundown Custom Card appears on the British QSL scene, it is always a most welcome arrival. The latest custom card to arrive with us is the club card of the *Great*

*Western QSL Group* of Post Box 143, Swindon, Wiltshire, SN3 2LL, this one being sent in by **Roger Davies (GW 01)** whose handle is *Clockwork Orange*. If you would like to see one of these exquisite and very colourful QSL Cards, drop Roger a line and he promises a 100% 1-4-1 QSL, not only with the club card but with his own personal card, printed by **Derwent Press**.

Had a telephone call last week from **Wendy—Tongue Tied**—whose handle should now be very familiar to most of you who QSL swap. Wendy is the owner of the unique gold blocked QSL Cards that are much sought after in the QSL world, and she took time to tell us about some of her friends in the Walsall area, amongst whom was a rather nice disabled breaker under the handle of *Blue Bomber*. By coincidence, we received one of *Blue Bomber's* QSL Cards this month and if you would like to extend a big QSL welcome to him, he's **Norman Fletcher** of 317 *Hutingdom Terrace Road, Chadsmoor, Cannock WS11 2HX and he also has one of these exquisite cards. Norman took quite a lot of trouble writing his letter to us as I understand that it takes him the best part of a day. No doubt he would welcome hearing from fellow QSLers and I sincerely hope that you will find the time to send him a nice QSL package.*

The very next QSL was from **Wendy's son, Gilbert The Green Gremlin**, who sends yet another of these unique cards, and if you would like to contact Wendy or Gilbert, their address is **107, Howdles Lane, Brownhills, Walsall, WS8 7PJ**. Gilbert does say he would prefer to QSL anybody under the age of 15 as the finances for the postage are somewhat limited. No doubt they would both like to hear from you and I am sure you will be pleased to have a super QSL contact such as Wendy.

It appears to be something of a take-over this month by Wendy and her friends as we have received yet another two of these rather special



cards from David Dunn of 27 Alexandra Road, Walsall, West Midlands, WS1 4DX, who goes under the handle of Electric Wheels and Alan Jones of 28 Manor Road, Alumwell Estate, West Midlands, who goes under the handle of Jinky. This particular series of cards is very attractive and have, in fact, almost started a theme on their own. Alan also sent us details of ECHO—Emergency Channel Help Organisation which is a channel 9 monitoring service located in the West Midlands area and, of course, we wish them well with their endeavours. As you know I am very involved with the REACT organisation and as fellow monitors we always look towards working with each other to serve our fellow breakers. All we ask is that we get respect on the channel. We are giving our time to help you!

From John, Cactus Man of 22 Rievaulx Avenue, Billingham, Cleveland TS23 2BL, comes some very nice all colour QSL Cards which ably illustrate his handle and it is suggested that he has a pint in his hand more than his pen for QSLing. Also with John's card comes some club cards of the Charlie Delta DX Club from P.O. Box 60, Middlesborough, Cleveland and these are well worth getting for a club card theme collector.

A nice full colour letter card, together with a good supply of his own personal QSL Cards comes from Brian Lucock—The Discriminator—whose address is 15 Mayfield Road, Newquay, Cornwall, TR7 2DG.

Brian is a newcomer to QSLing and has applied to join quite a few QSL Clubs at the time of writing and is awaiting replies from these. He tells us he has a good supply of his personal cards and promises a 1-4-1 QSL swap.

Another QSLer new to the hobby is Lorraine Borrow of 41 Minden Way, Wichester, Hants., SO22 4DT, who QSLs with some personal cards and again promises 100% QSL.

A very nice lengthy letter came in from David Benton, a member of the One Echo SSB Radio Club at P.O. Box 69, Walsall WS3 4JE. This is the first time that we have seen anything to do with the One Echo Club and from the membership form it appears to be a very nice little sideband club—reasonably priced and with a monitoring frequency of 27.455 LSB which, apparently, is monitored most of the time in the Walsall area.



Quite a few cards produced by D. Currie of Consett, Co. Durham, are now becoming evident in the QSL field and one such card came from Iron Horse, Dennis Tinsley of 122 Groughton Road, Crewe, Cheshire, CW1 4NS, who also sends some rather nice local QSL Cards from the Crewe area depicting a railway engine—I'm something of a railway buff myself, Dennis—and Dennis tells us he is about to join various QSL Clubs, as he has now gone into the QSL hobby at the deep end. Again Dennis promises a 100% QSL and these are cards well worth collecting, especially for those who are on the D. Currie Printers theme. Yet another 'Currie' card came in from Green Dragon alias Hugh McGregor of 2 Kennedy Place, Pitlochry, Perthshire, PH16 5HB, who QSLs with a pile of his new cards and introduces the word 'scatter' for what we have normally called 'floater' cards. So, there we have a new word creeping in to the QSL dictionary. It is interesting to note that Hugh says a number of factors held him up from QSLing me. One was the festive season and it's associated national hangover!

Well, that's it again for another month. Thank you for all your QSLs. If you would like a mention in the column, drop a line to:

The Medicman, 124 Hillcross Avenue, Morden, SM4 4EG . . . and remember, Take care—we care.

**CB**



### Citizens' Band Magazine List of New QSL Contacts

- |                                    |  |                                       |  |
|------------------------------------|--|---------------------------------------|--|
| M. MEREDITH <i>Sagittarian</i>     | 60, Hampden Court, Brades Rise, Oldbury, Warley, West Midlands.      | PAT LAWRENCE <i>Bright Eyes</i>       | 10, Channel Heights, Bleadon, Weston Super Mare, Avon BS24 9LX |
| TERRY SHELDRAKE <i>Mandarin</i>    | 22, Bell Hall Terrace, Saville Park, Halifax, West Yorkshire HX1 3EE | RALPH VAUGHAN <i>Big Bopper</i>       | 12A, Ger-y-nant, Glynneath, West Glamorgan, South Wales        |
| ANDREW <i>Batman</i>               | Shaw and District Breakers 8, Fraser Street, Shaw, Oldham, Lancs.    | GEORGE EDMUNDS <i>General Custard</i> | 48, Heol Esgyn, Rhigos, Aberdare, Mid Glamorgan CF44 9BX       |
| WENDY <i>Pork Slice</i>            | 59, Alexandra Drive, London, SE19 1AW                                | JOHN <i>Orchid Man</i>                | P.O. Box 19, Sudbury, Suffolk CO10 0EB                         |
| J M DOBSON <i>Road Hog</i>         | 2, The Crescent, Dilton Marsh, Westbury, Wilts.                      | R T ROBERT <i>Road Train</i>          | P.O. Box 27, Barrow in Furness, Cumbria.                       |
| JOHN S WILLIAMS <i>Moonlighter</i> | P.O. Box 7, Blackwood, Gwent   | FINN PEDERSEN <i>Viktor 99</i>        | Muskathaven 115, st., DK 2730, Herlev, Denmark                 |
| MALCOLM FISHER <i>AAMC 324</i>     | Aughnash, Ramelton, Co. Donegal, Ireland                             | MARK PHILLIPS <i>Bulldog</i>          | 4, Edwy Parade, Kingsholm, Gloucester GL1 2QL                  |
| BRIAN R YOUNG <i>Penguin</i>       | Swan Hotel, Wells, Somerset.   | GISELA KLINKER <i>Ma Roni 1</i>       | Bauerbergweg 27, 2000, Hamburg 74, West Germany                |
| IAN GOODWIN <i>Beachcaster</i>     | Flat 22, 73, Hauteville, St Peter Port, Guernsey                     | DAVID WALLBANKS <i>Buzzard</i>        | 2B-1st Street, Bradley Bungalows, Leadgate, Co. Durham.        |
| WILLIAM LACEY <i>Black Angel</i>   | 6, Beacon Crescent, Coalville, Leicester LE6 3HA                     | LES <i>Gold Eagle</i>                 | 7, Nepturie Street, Rotherhithe, London SE16 1JP               |
| GEOFF GAUNT <i>70 BC 817</i>       | 10, Pinfold Drive, Northallerton, North Yorkshire.                   | EWAN CAIRNS <i>Mr Wimpy</i>           | 11/6, Clovenstone Gardens, Edinburgh EH14 3ET Scotland         |
| STEVE CASWELL <i>Lucky Jim</i>     | 31, Regent Street, Stotfold, Hitchin, Herts                          | NIGEL HARRISON <i>Hair Bear</i>       | 14, Desborough Close, Bengeo, Hertford, Herts.                 |



**Good news week this week! Out of the many letters received from all over the country we have chosen those of a positive nature. Too many moans and groans of late—let's look on the brighter side of CB . . .**

### Deelightful Copy

Dear CB,  
I would be grateful if you would print this letter—*happy to oblige Linda*—I want to thank all the breakers—male and female—who sent me QSL cards to swap. I will answer all of the cards that I receive and, if anyone else wants to swap cards the address is: **1 India Tango, PO Box 7, Merthyr Tydfil, CF47 9LR.** I don't know who put my name in the QSL section as I am no longer a member of the Mike Tango DX Club but I am grateful to them!

I am sending you a copy of my QSL card so you can print it in your magazine to keep all of the gentlemen happy!

**Kinky Knickers  
Merthyr Tydfil.**

*After prising the envelope from little Kev's sticky hands—cos it was addressed to me—it got a little damaged—. You cheeky lady breaker!*

### London THAMES

Dear CB,  
Following Mr Stanhope's letter in February's *Citizens' Band* I felt I must write in defence of the monitoring services. I'm a member of **THAMES** and have friends who are South London and **REACT** monitors. We all monitor 09 for at least one hour and often several hours a day. We don't however claim to give 24 hour cover on 09. We attempt to cover it for as long as possible but don't have sufficient numbers to run a proper 24 hour service. This doesn't prevent people from doing their utmost to be of assistance to other breakers. Many volunteer to be on 24 hour call, 7 days a week, 365 days a year. They may be dragged from nice warm beds to go out and take some petrol to a stranded breaker but this they do without complaint.

The Monitoring services also help members of the public by other means as well. They offer their services to the elderly, disabled and will help at fetes and other events if requested. We also have a very good relationship with the

local police. They will request our help for example in a search for missing persons.

Please don't knock the CB emergency services, they do their best considering the difficulties they have. If anyone is interested in joining **THAMES** please write to me and I will do my best to be of assistance.

**Andrew Masson  
London**

*Any letters addressed to Andrew should be clearly marked—and we will forward them to him.*

### Norwich THAMES

Dear CB,  
We, the **THAMES** Channel 9 Norwich Branch, do not appreciate reading that there is no channel emergency service in certain areas of the country. We have been monitoring on channel 9 since the AM days when we were monitoring for eighteen hours a day. We now operate a 24 hour service—on the FM mode—which covers the Norwich area and can reach from 15 to 30 miles outside of Norwich and this is monitored religiously for seven days a week.

If anyone in the local area wishes to organise a channel 9 monitoring service—so that they can assist breakers in general and the country as a whole—would they please contact **Mr. Tex on Norwich 747589, Mrs. Eaglen on Norwich 742465 or Mr. Raven on 01-690 2954.**

Monitoring the channel 9 service is a thankless task but we still have 40 monitors on channel. So get your ears on breakers and start helping the emergency services.

**R Tex  
Gypsy King  
THAMES Norwich Branch**

### Helping Hand

Dear CB,  
We, the Committee for the Blind, Handicapped and Disabled Network, are working hard towards aiding its breakers the best way possible.

After our first anniversary on 16

February 1983, a group of breakers are forming a committee who will decide and arrange fund raising events, such as the 'Mass Eyeball' at Kings Norton Green Park, Kings Norton, Birmingham, now being planned, and a Sponsored Modulation which will take place as a build-up to the 'Mass Eyeball' on a date yet to be fixed.

The funds raised will, first of all, be used towards a Mini Bus and Garage for Dame Ellen Pinsent Special School, who need the bus to transport the disabled. We are operating in conjunction with the above named School.

There are many ways in which Blind, Handicapped and Disabled breakers can be helped. Any genuine suggestions would be welcome, if brought forward through a name and address which will be published at a later date. Also, any Breaker unable to attend any Event but who would like to support and make a donation may do so direct into our 'Special Fund Raising Bank Account' details of which are as follows:

**Channel CB 40 Blind, Handicapped and Disabled**  
**Account Number: 0209373**  
**(Current Account)**  
**Lloyds Bank Limited**  
**Kings Norton Green**  
**Pershore Road South**  
**Kings Norton**  
**Birmingham 30**

We would like to bring to notice that each morning between 6.30am and 10.00am the Blind, Handicapped and Disabled breakers are on channel 40, and anyone is welcome 'on the side' to have reasonable modulations, time permitting.

So come on Breakers, let's all get together and help the Blind, Handicapped and Disabled, and try to keep the Channel 'clean and clear' for just 3½ hours a day Monday to Friday. The lady who runs this Channel in the morning is **Mrs Black Beauty** and all Breakers coming on Channel are requested to 'QSK' through to her when they will be introduced to other Breakers, time permitting.

The Committee for the Blind, Handicapped and Disabled Network

**Honorary President: 'Grandad'**  
**Chairman: 'Cineman'**  
**Secretary: 'Black Beauty'**  
**Treasurer: 'Snoopy'**  
**R. Moore**  
**Birmingham**

## Mack Magic!

Dear CB,  
Just read Mack's page in January issue. Magic! I was beginning to think I was the only CBer who thought along those lines. I'm not going to ramble on, but for your interest, I wrote to Short Wave Magazine after they asked for views on the subject of amateur radio in the future. We need a Novice Licence along some lines, not for nothing—there must be some restriction, otherwise the frequencies will soon be full of wallys, heaven forbid!

CB here in Southampton is ruined

most of the time by people who just do not understand or do not want to understand the correct use of radio in any form. They blot out all conversation by keying the mike, playing music or running high power over the top of any channel where they find a conversation in progress.

Ah! well that's life, I guess but is the main reason why so many serious operators break the law and go onto sideband, not because they want to break the law but it seems there is at present no other way to use the radio and enjoy the hobby and stay legal, a Novice Licence should help.

**S. Tilley**  
**Southampton**

## Antenna Double

I am yet another breaker who would like to see the antenna restrictions dropped. I am not just saying that—I am stressing certain points.

I have two antennas, a 1.5m and a 22m. I have found that the 1.5m causes quite bad TVI while the 22m does not cause a spot of TVI. So if this is true—which it is as I and other breakers confirm—then why should the HO not want to drop the restrictions? Why don't some of you other breakers try it?

**Diamond Dog**  
**Kent**

*I expect they have DD and I also expect that they will write and tell me so!*

## Friends and Neighbours

My original reason for purchasing a CB rig was for use as an emergency unit—a Maxcom 7E—as I travel throughout the South of England and, especially in the South West. At this time of the year certain areas such as Dartmoor, Exmoor and Bodmin Moor are very bleak and I wouldn't want to get stranded.

It did not take me too long to realise how useful CB is in my daily life on the road and how much all mobiles owe to those home based breakers who provide such a great service with their smoky reports, 10.13s and directions for those uncertain of the way.

In and around my home twenty we an A1 service with **Bantam** and his good lady **Twinkle Toes** in the Aldershot area—**Blue Princess** in the Guildford area—**Speedy Lady** in Basingstoke and **Bush Baby** in the Newbury area all working channel 19. In the Swindon 20 there is a really cheerful breaker called **Charley** working channel 6.

There must be a lot of breakers doing this great job—how about printing their names in a list every month?

**The Highwayman**  
**Aldershot**

*Sorry Highwayman, I know how you feel but space would not permit. Always pleased to hear from satisfied customers though and, in the near future, we will be running a feature on those breakers who monitor for trucks.*

## Snippets . . .

*We do get some very long letters here at Back Chat and if they were published in full other breakers would not get a look in - so here are some snippets from this month's post box...*

**Chris Lee of Romford** says... Now that 934 is freely available—or soon will be—will it go the same way as 27 has gone? In my opinion we should not use the same good buddy approach, this has proved not to work and makes breakers sound like 10.1 Turkeys! A professional outlook on things is needed. The use of proper call signs and the following of a stricter code of practice.

**Robert A. Jonas of Merthyr Tydfil** writes... Re the Binatone rig check—if an 80m antenna was connected it would probably blow up the final transistor. *Thanks Robert, of course that should have read 80m.*

**Bob Skinner-Hedgehog-of Plymouth** comes up with an idea... Digging around in the cupboard under the stairs I found an old lamp shade and it suddenly dawned on me that it was worth an experiment. Stripping off the fabric I turned it upside down and fitted the frame to a 5/8 wave DX 27 and brought the SWR down to 1:6.1. Hope you will publish this idea.

**David Dixon-Little Demon-of Newcastle** tells us about his skip copies and adds... I would like to point out that if you want some good skip—don't come here for it! It may sound tempting getting all those long distance copies in the night and afternoon but we do have a tremendous number of Cbers—some we could do without—all battling to get a clear channel!

**J. A. Carter-Badger-from Sutton Heights** tells us... On the 29th May '83 the **Lima November DX Club**, of which I am the treasurer and founder member, is holding a Spring Gala/eyeball at the Madeley Court Centre, Telford from 11.00am to 7.00pm. This will not only be an eyeball but a family day out with lots of stalls etc. We will also be raffling some CB gear. Further details and information can be obtained from **Lima November DX Club**, PO Box 46, Telford, TF1 1EF.

*That's the lot for this month—just enough to remind you that, if your letter includes details of a forthcoming event then, it needs to be here at least a couple of months before publication date. Sorry to Belstaff of Plymouth and Night Porter of Blackpool.*

**CB**

**Letters intended for publication should be addressed to: Backchat, Citizens' Band, 145 Charing Cross Road, London WC2H 0EE. Letters not containing a name and address will not be considered for publication.**

# GET A GOOD COPY— CITIZENS' BAND SUBSCRIPTION ORDER FORM



Cut out and SEND TO: Citizens' Band,  
513, LONDON ROAD, THORNTON HEATH,  
SURREY, ENGLAND

Please commence my personal subscription to Citizens' Band with  
the ..... issue.

### SUBSCRIPTION RATES

(tick  as appropriate)

- £12.00 for 12 issues U.K.
- £13.95 for 12 issues overseas surface
- £27.10 for 12 issues Air Mail

I am enclosing my (delete as necessary) Cheque/Postal  
Order/International Money Order for



£ .....  
(made payable to A.S.P. Ltd)  
OR

Debit my Access/Barclaycard\*  
(\* delete as necessary)

Please use BLOCK CAPITALS and include post codes.

Name (Mr/Mrs/Miss) .....  
delete accordingly

Address .....

Signature ..... Date .....

Please mention  
**CB**  
**Citizens' Band**  
when replying  
to all  
Adverts

### ADVERTISERS INDEX

CAVALIER BASE 20 .....	12
DATONG .....	4
FREEMAN & PARDOE .....	IFC, 18
GAMMA AERIAL PRODUCTS .4,12,IBC	
MAGPIE ELECTRONICS .....	12
MICRO ELECTRONICS .....	18
OCT .....	OBC
SKYLAB .....	12
S M C .....	8
TELECOMMS .....	5
UNIACE .....	8



# CLUB NEWS

This month's club news concentrates on the help some CBers give to blind breakers. We hear from the CB Radio For The Blind organisation and a club set up by disabled people for disabled people. And, as usual, there's our update on the newest clubs up and down the country.

One of CB's worthiest causes is CB Radio For The Blind. It's just great to think that breakers up and down the country are doing their best to help our blind friends. And the good thing about CB is that it doesn't discriminate between sighted and blind breakers. So, it was with great pleasure that we received an epistle from Ken Callow, Honorary Treasurer of the Scotland branch of CB Radio For The Blind.

Ken's written to tell us about new area organisations of CBRFTB. Down here in London the secretary is *Dave Greene*. I don't think he's the boxer but just in case I won't insult him too much. Dave lives at 22 Charlbert Court, Charlbert Street, London, NW8 7EX.

Secretary for the Medway area is *David Northeast*. Or is David Medway sec for the North East? No, no, I was right first time. The good Mr Northeast resides at 29 Rosemary Court, Tarmar Drive, Strood, Kent. Telephone: 0634 727116.

*Jim Lowes* is secretary for the Northern area. He can be found at 44 Fellside, Portmeads, Birtley, Chester Le Street, DH3 2NE. Any of you want info on CBRFTB should you want to join, help or otherwise please write or ring the regional organisers. They're a great bunch and willing to help.

Bowling in from Braintree comes a letter from the Orange Circle Club. They're a group of disabled breakers, together with husbands and wives, who've started up their own club. It's been meeting since November '82 at the Goldringham Hall, Braintree from 2.30pm to 4.30pm on the second and fourth Monday of the month. Let's listen to Mr Andrews, PRO, describe the club...

The club caters for breakers of all ages, their families and several blind breakers. The meetings are happy, friendly affairs with everyone enjoying a good ratchet, entertainment and a cup of tea or coffee. Most members have ratched to each other on channel and it gives them much pleasure to be able to eyeball each other at the club.

Anyone wanting to contact the Braintree Orange Circle CB Club

should write to *Mr Andrews, Keepnet*, at 27 Coldnailhurst Avenue, Braintree, Essex. CM7 7GL.

The Langley CB association seem to be abroad rather more than they are at home. Last year they ran two day trips to France. And they're about to go off on another one. Seems like they should be reading Any Giles' article on CB overseas in a future feature—next month we hope!

But back to Langley and their club. From their letter they seem to be Space Invader and Table Tennis fanatics. But I'm sure there's more to them than that. You can get in touch with them by writing to: Langley CB Association, Horsemoor Green Community Centre, Common Road, Langley, Slough, Berks.

Okay, that's all the club news for this month apart, that is, for this month's terrible joke.

Knock, knock  
Who's there?  
Phyllis  
Phyllis who?  
Phyllis bucket of water and I'll clean your windows.

**Orchid Man**  
PO Box 19, Sudbury, Suffolk  
COTO OEB, UK

Sierra  
Tango  
149

An Eyeball!! 10-4 !!

**PORK slice**

WENDY  
57 ALEXANDRA GARDENS  
LONDON SE17 1AW

**CACTUS MAN** 27MHz FM 19/30

**JOHN**  
22 Rievaulx Ave  
Billingham  
Cleveland  
TS23 3BL

Three 3's  
Seventy 3's

**NORTH TEES BREAKERS**

# CLUB DIRECTORY

## ENGLAND

### BEDFORDSHIRE

Chiltern React,  
Chairman: Cougar One,  
139 Spoodell,  
Dustable  
Meet: Dustable Football Sports Club,  
Creasy Park, Brewers Hill Rd.  
Alt Suns 8pm

### BERKSHIRE

Langley CB Association  
Chairman: Dennis The Menace  
Horsmoor Centre, Common Rd,  
Langley, Slough  
Meet: Above, Fris, 8pm

### COUNTY DURHAM

Derwent Valley Junior Breakers  
PR Contact: Georgie Girl,  
10 Prospect Terrace, New Kyo,  
Stanley, Co Durham DH9 7TR  
Meet: Stanley Youth Centre,  
Weds 7pm

### ESSEX

KEBA  
PR Contact: Beach Baby,  
106 Clarence Road, Grays, Essex.  
Meet: Fondu Sports and Social Club,  
North Road, Purfleet, Essex, Tues 8pm

### GLOUCESTERSHIRE

LAD Breakers,  
PR Contact: Sue Powell,  
18 Lynwood Rd, Lydney, GL15 5SG  
Meet: Globe Inn, Alvington,  
Alt Mons 7.30pm

### HUMBERSIDE

White Rose Breakers Club,  
PR Contact: FR Baker,  
9 Damson Garth, Driffield,  
N Humberside  
Meet: Rose & Crown, Middleton,  
Alt Mons 8.30pm

Breaker One Nine,  
PR Contact: Pooh Bear,  
4 Iona House,  
Bransholme, Hull HO7 4JP  
Meet: Hordens Club, Chants Ave,  
Hull, 2nd Sat of month, 2pm

### LEICESTERSHIRE

Soar Valley CB  
PR Contact: DJ Taylor,  
13 Shottery Ave,  
Braunstone, Leicester  
Meet: Union Inn, Middleton St,  
Aylestone, Leicester. Tues 8pm

### LONDON

Echo 1-5 Breakers Club  
PR Contact: Casanova,  
24 Simons Walk,  
Stratford, London E15  
Meet: Eagle pub, Chobham Rd,  
Weds 8pm

### MANCHESTER

Mike Two Nine Club  
Contact: GJ Flynn,  
56 Lynton Rd,

Tyldesley,  
M/cr M29 8PX  
Meet: Tyldesley British Legion,  
Thurs 8pm

### MIDLANDS

ABC Breakers Club  
PR Contact: Mrs E Parkinson,  
45 Dale Walk,  
Hay Mills, Birmingham B25 8NK  
Meet: Samson & Lion, Fridays 7.30pm

### TYNE & WEAR

Spital Round Table Breakers  
PR Contact: Highland Dancer,  
263 Wingroup Ave,  
Newcastle Upon Tyne  
Meet: Pendover Club, Ferguson Lane,  
Newcastle. Thurs 7.30pm

### YORKSHIRE

North Wold Breakers Club  
Chairman: Radio Hedgehog,  
'Hedgehog House',  
Burnby, Pocklington,  
York YO4 2RS  
Meet: The Plough Pub, Hayton, Yorks  
First Wed in the month 7.30pm

### NORTHERN IRELAND

November Yankee 27/81 Club  
Secretary: Kevin MacNally,  
24 John Martin St,  
Newry, Co Down,  
N Ireland BT 35 8DY

### SCOTLAND

CB Radio For The Blind  
Secretary: Ken Callow,  
56 Ramsay Crescent,  
Bathgate,  
West Lothian,  
Scotland

DON'T FORGET TO SEND YOUR CLUB BADGE OR CARD

# CITIZENS' BAND CLUB DIRECTORY REGISTRATION FORM

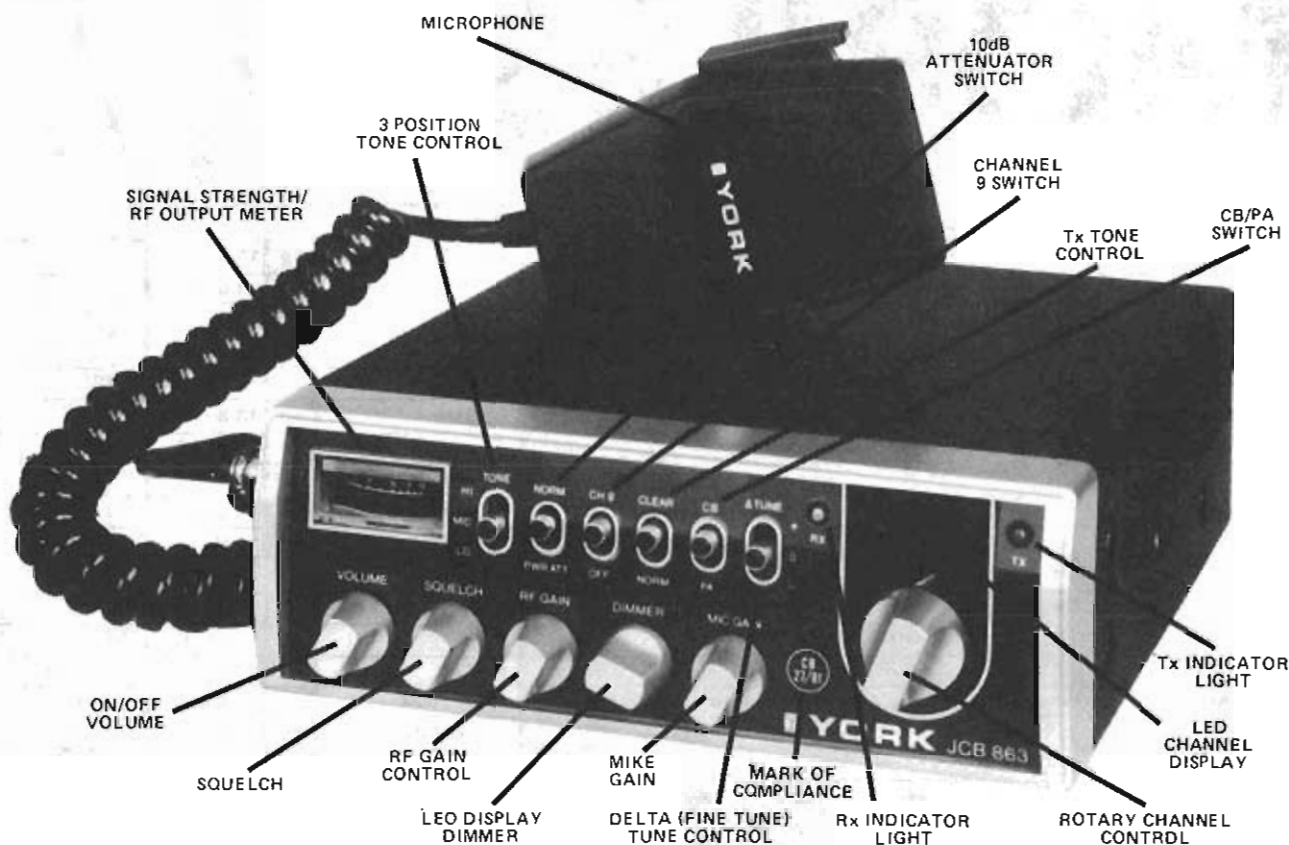


CLUB NAME ..... ( )  
 CHAIRMAN ..... ( )  
 Secretary ..... ( )  
 PR Contact ..... ( )  
 Contact Address ..... ( )  
 ..... (Tel No ..... )  
 MEETING PLACE, DAY AND TIME ..... ( )  
 .....  
 No. of members .....  
 Position in club .....  
 Fee/sub etc ..... (Committee members only please)

Please mark (\*) information that may be published.

# Citizens' Band

## REFERENCE SECTION



### SQUELCH

For anyone who has never used a rig before, this is probably the control that is the most difficult to understand. It exists to remove the background noise, that hissing sound that you can hear when there isn't a signal present. Nothing happens when the squelch knob is turned slowly clockwise, until it reaches a point just above the level of the background noise. Then, suddenly, the noise will totally disappear and you will hear nothing at all until a signal that is stronger than the background noise is received. This signal will cause the squelch to *open* as you will hear it, but as soon as it disappears, the squelch will *close* again and no sound will come from the rig. Care should be taken when adjusting this control because the higher it is set, the stronger the incoming signal has to be in order to open it. For the best results, the control should be left at the position just past the point where the background noise vanished. It will then let through any signal that is stronger than the background noise but not the noise itself.

### RF GAIN

This is a variable attenuator that cuts down the amplification which is given to incoming signals and the more it is turned, the less the gain of your rig. This helps to prevent overloading when you are talking to someone who is very close by.

### SIGNAL STRENGTH/RF METER

This is a dual function device that shows the relative strength of the signal you are receiving and of the signal you are transmitting. The S-Meter is usually calibrated 1-9 and the nearer to the 9 the needle is when you are receiving a

signal, the stronger that signal is. If someone asks you for a signal report, all you need to do is quote the number that is indicated on your S-Meter. This will give them a good idea of how well you are receiving them but you should remember that this is a *relative* indication and another rig under exactly the same circumstances could well give a reading that is 2 or 3 points different.

The same applies to the RF Meter. It also gives a *relative* indication of the power, you are putting out and it doesn't give a reading in watts. When you have properly tuned your antenna, you should note the position of the needle when you transmit, it should be around the 8 mark. If it suddenly moves from this position when you are transmitting, you should immediately re-check your antenna as there will almost certainly be something wrong with it.

### NOISE BLANKER

These two functions are often combined on one switch and although they operate differently, they both exist to cut down interference. Most ANL systems work reasonably well but an NB is a far more efficient device that will remove almost all of the crackles and pops that are caused by interference.

### LEDS (RX TX)

The appropriate one of these light emitting diodes lights to show if you are transmitting or receiving.

### PA/CB

This switch turns your rig into a low power public address amplifier when it is set to the PA position. There is a socket on the back for an exten-

sion horn type speaker to be plugged into and anything you say into the microphone will be amplified and broadcast through the speaker.

### MIC. GAIN.

This control alters the amount of audio from the microphone used to modulate the outgoing signal. When it is set to minimum, you are transmitting a blank carrier regardless of whether you speak into the microphone or not but when it's set to maximum, your signal is at almost 100% modulation.

### HI/LO

This switch cuts down the output power of your rig so that you can conform to the rule on the back of your licence that says that you must reduce your power by 10 dB if your base station antenna is more than 7 metres above ground level.

### CHANNEL SELECTOR

This is the knob that you use to change channels.

### CHANNEL INDICATOR

This window displays the number of the channel in use. Most sets use LEDs for this display but some manufacturers prefer to use liquid crystal or fluorescent type displays. Displays will normally be bright red, orange or green and visible in all but the most direct sunlight.

### CH 9 PRIORITY

This switch allows you to go immediately to channel 9 without having to use the channel selector.

# FM RIG CHECKLIST

## MOBILES

NAME	ADDRESSES	MODEL	NO. OF CHANNELS	SUPPLY VOLTAGE	RETAIL PRICE
ALBA	Alba (Electronics) Ltd, Bull Lane, Edmonton N18	CBMI 40	40	13.8VDC	TBA
AMSTRAD	Amstrad Consumer Electronics, 1-7 Garman Road, London N17	CB 901	40	13.8VDC	£89
AUDIO LINE		341	40	13.8VDC	£106
AUDIO LINE	CB Radio Centre, 337 Kenton Rd, Harrow Mdx	340	40	13.8VDC	£80
AUDIO LINE		342	40	13.2VDC	£149.95
BARRACUDA	Halfords Motor Accessory Shops	GT 868	40	13.8VDC	£70
BARRACUDA		HP 940	40	13.8VDC	£85
BINATONE	Binatone House, Baresford Av, Wembley, Mdx	BREAKERPHONE	40	13.8VDC	£99
BINATONE		ROUTE 86	40	13.8VDC	£79.95
BINATONE		5-STAR	40	13.8VDC	£100
BRAEMAR	Geminex Overseas, 348 Kings Rd, SW3 5UZ	BRAEMAR	40	13.8VDC	ETBA
COBRA	Mura (UK) Ltd, High Rd, Willesdon, NW10	21 X FM	40	13.8VDC	£79
COLT	Shellpost, 183 The Rock, Bury, Lancs	295	40	13.8VDC	£80
COMMTRON	Roger D, 831 Mansfield Rd, Notts	CB40F	40	13.8VDC	£70
COMMTRON		CXX	40	13.8VDC	£69.95
CYBERNET	Goodmans Loudspeakers Ltd, Downley Road, Havant, Hants PO9 2NL	BETA 1000	40	13.8VDC	£70
CYBERNET		BETA 2000	40	13.8VDC	£85
CYBERNET		BETA 3000	40	13.8VDC	£100
DNT	Radlotechnics Ltd, Grove Way Bel Royal, St Lawrence Jersey CI	M40FM SPECIAL	40	13.8VDC	£100
ELFTONE	4 Baresford Av, Wembley, Mdx, HA0 1YA	ELC8 8000	40	13.8VDC	ETBA
EUROCOMM	Zycomm Electronics, Ripley, Derbyshire	EURO 40	40	13.8VDC	£89
FIDELITY	Fidelity Radio Ltd, Victoria Rd, London NW10	CB 1000M	40	13.8VDC	£70
FIDELITY		CB 2000M	40	13.8VDC	£90
FIDELITY		20001 FM	40	13.8VDC	£70
GRANDSTAND	See-Ware Ltd, Ripon Way, Harrogate, N, Yorks	BLUEBIRD	40	13.8VDC	£90
GRANDSTAND		HAWK	40	13.8VDC	£80
GRANDSTAND		GEMINI	40	13.8VDC	£122
GREAT	Britannia Trading, Northern Rd, Sudbury, Suffolk	GT 858B	40	13.8VDC	£65
HARRIER	Dixons Photographic Ltd.	CB MOBILE	40	13.8VDC	£49
HARRIER		C8 X	40	13.8VDC	£89.99
HARVARD	Harris Overseas Ltd, Harvard House, 14-16 Thames Rd, Barking, Essex	400M	40	13.8VDC	£80
HARVARD		402 MPA	40	13.8VDC	£69.95
HARVARD		H403 GOOD BUDDY	40	13.8VDC	£50
HARVARD		420M	40	13.8VDC	£100
INTERCEPTOR	Chelsea CB Centre, 73-77 Britannia Rd, London	INTERCEPTOR	40	13.8VDC	£80
INTERCEPTOR		TC400	40	13.8VDC	£95
INTERCEPTOR		ONE HANDER	40	13.8VDC	£100
JOHNSON	Ster Warehouse, Chalk Farm Rd, London	JOHNSON	40	13.8VDC	£50
JWR	Wolfe House, Norse Rd, Bedford MK41 0LF	M2	40	13.8VDC	£60
JWR		M3	40	13.8VDC	£90
KAISER	Kaiser Electronics Nervrottesse 21-25, Waldorf Baden, W, Germany	UK 40	40	13.8VDC	ETBA
LADYLINE	Market Drayton, Salop	QUASAR	40	13.8VDC	£80
LAKE	Roger D, 831 Mansfield Rd, Nottingham NG5 3GF	MANXMAN 850	40	13.8VDC	£32.50
LAKE		MANXMAN 950	40	13.8VDC	£37.50



# REFERENCE

On the following pages you will find listed just about all of the CB rigs available for use on UKFM CB. We have split the reference section into three parts; mobile base and portable to make individual rigs easier to find.



SQUELCH	NB SWITCH	ANL SWITCH	MIKE GAIN	RF GAIN	STONE CONTROL	S/RF METER	S/RF LED R/O	HI/LO OUTPUT	PA FACILITY	EX. SPEAKER JACK	TX IND. LIGHT	RX IND. LIGHT	CH 9 SWITCH	MIKE POSITION	COMMENTS	
•				•		•				•	•	•	•	FL		ALBA
•				•	•	•	•	•	•	•	•	•	•	SL	Report Feb '82	AMSTRAD
•			•	•	•	•		•	•	•	•	•	•	SL		AUDIOLINE
•			•		•	•		•		•	•	•	•		Report Feb '82	AUDIOLINE
•					•	•			•	•	•	•	•	—		AUDIOLINE
•			•	•	•	•		•	•	•	•	•	•	FL	Great GT868 chassis	BARRACUDA
•			•	•	•	•		•	•	•	•	•	•	FL	Cybernet chassis	BARRACUDA
•			•		•	•		•	•	•	•	•	•	—	Report Feb '82	BINATONE
•					•	•		•	•	•	•	•	•	FL	Report Dec '81	BINATONE
•			•	•	•	•		•	•	•			•	SL		BINATONE
•				•	•	•		•		•	•	•	•	SL		BRAEMAR
•					•	•		•	•	•	•	•	•	FL	Colt, MidInd, Mexcom lookalike	COBRA
•				•		•		•	•	•	•	•	•	FL		COLT
•					•	•		•	•	•	•	•	•	FL		COMMTRON
•					•	•		•	•	•	•	•	•	FL		COMMTRON
•					•	•	•	•	•	•	•	•	•	SL	Ultra compact performer	CYBERNET
•				•	•	•		•	•	•	•	•	•	FL		CYBERNET
•				•	•	•	•	•	•	•	•	•	•	FL		CYBERNET
•				•	•	•		•	•	•	•	•	•	FL	Report July '82	DNT
•				•	•	•		•	•	•	•	•	•	FL		ELFTONE
•					•	•		•	•	•	•	•	•	FL		EUROCOMM
•					•	•		•	•	•	•	•	•	SL		FIDELITY
•			•	•	•	•		•	•	•	•	•	•	FL	Report March '82	FIDELITY
•			•	•	•	•		•	•	•	•	•	•			FIDELITY
•					•	•		•	•	•	•	•	•	SL		GRANDSTAND
•				•	•	•		•	•	•	•	•	•	SL		GRANDSTAND
•	•			•	•	•	•	•	•	•	•	•	•	SL		GRANDSTAND
•					•	•		•	•	•	•	•	•	FL	Same as Johnson rig	GREAT
•					•	•		•	•	•	•	•	•	SL	Report Feb '82	HARRIER
•			•	•	•	•		•	•	•	•	•	•	SL		HARRIER
•					•	•		•	•	•	•	•	•	FL		HARVARD
•					•	•		•	•	•	•	•	•	FL		HARVARD
•				•	•	•		•	•	•	•	•	•	SL		HARVARD
•				•	•	•		•	•	•	•	•	•	SL		HARVARD
•				•	•	•		•	•	•	•	•	•	SL		INTERCEPTOR
•	•		•	•	•	•		•	•	•	•	•	•	FL		INTERCEPTOR
•			•	•	•	•		•	•	•	•	•	•	FL		INTERCEPTOR
•				•	•	•		•	•	•	•	•	•	FL	Great GT868 chassis	JOHNSON
•					•	•		•	•	•	•	•	•	FL		JWR
•					•	•		•	•	•	•	•	•	FL		JWR
•					•	•		•	•	•	•	•	•	FL		KAISER
•				•	•	•		•	•	•	•	•	•	FL	First marine rig	LADYLINE
•					•	•		•	•	•	•	•	•	SL		LAKE
•				•	•	•		•	•	•	•	•	•	SL		LAKE

considerably from CB shop to CB shop!

# REFERENCE

# MOBILES

NAME	ADDRESSES	MODEL	NO. OF CHANNELS		RETAIL PRICE
				SUPPLY VOLTAGE	
LCL	LCL Imports Ltd, 101 Dixons Green, Dudley, W. Midlands	2740	40	13.8VDC	£80
LCL		COMMUNICATOR	40	13.8VDC	£95
LOWE	Lowe Electronics, Matlock, Derbyshire	TX40	40	13.8VDC	£50
MANOR	Manor National Group, Oxford Rd. M/cr	KESTREL	40	13.8VDC	£99
MAXCOM	A.M. Telecommunications, AM House, 17 Shepherds Way.	4E	40	13.8VDC	£80
MAXCOM	Rickmansworth Herts.	6E	40	13.8VDC	£48
MAXCOM		20E	40	13.8VDC	£50
MAXCOM		21E	40	13.8VDC	£50
MAXCOM		18E	40	13.8VDC	£40
MICROLINK	Warman-Fraed Ltd, 82 Golders Gn Rd, NW11	CB401	40	13.8VDC	£115
MIDLAND	Plustronics Ltd, Hempstalls Ln, Newcastle-under-Lyme, Staffs.	2001	40	13.8VDC	£70
MIDLAND		3001	40	13.8VDC	£80
MIDLAND		4001	40	13.8VDC	£90
MIDLAND		2001 T	40	13.8VDC	£100
MUSTANG	KB & Co. Ltd, 202 Cheetham Hill Rd, M/cr.	CB1000	40	13.8VDC	£49.95
MUSTANG		CB2000	40	13.8VDC	£59.95
MUSTANG		CB3000	40	13.8VDC	£69.95
NATO	Roger D, 831 Mansfield Rd, Nottingham NG5 3GF	40M	40	13.8VDC	£69.95
NATO		2000	40	13.8VDC	£189.95
OSCAR	S.M.C. Osborne House, Totton, Southampton	OSCAR1	40	13.8VDC	£85
RADIOMOBILE	Goodwood Wks, North Circular Rd, London NW2 7JS	201	40	13.8VDC	£80.90
RADIOMOBILE		202	40	13.8VDC	£120
REFTEC	RF Technology, Layton Avenue Ind. Est. Mildenhall, Suffolk	934	20	13.8VDC	£200
ROTEL	Rotel Hi-Fi, 2-4 Erica Rd, Steeey Bushes, Milton Keynes	RVC 220	40	13.8VDC	£50
ROTEL		RVC 230	40	13.8VDC	£70
ROTEL		RVC 240	40	13.8VDC	£90
SAPPHIRE	CB Services, 97 Crab Lane, Harrogate, North Yorks.	2000X	40	13.8VDC	£88
SHOGUN	Colliers Fm, Freith, Henley-on-Thames, Oxon, RG8 6NR	SHOGUN	40	13.8VDC	£100
SIRTEL	24 Alfric Sq, Off Maxwell Rd, Woodston Ind. Est, Peterborough	SEARCHER	40	13.8VDC	£40
SPIRIT	Martellor Sound Ltd, Haywood Way, Ivyhouse Lane, Hastings	SPIRIT	40	12VDC	£100
STEEPLETONE	Park End Works, Croughton, Nr. Brackley, Northants	SC81FM	40	13.8VDC	£103
TANDY	Tame Way Tower, Bridge St, Walsall, Staffs	TRC2001	40	13.8VDC	£80
TANDY		TRC2002	40	13.8VDC	£70
TANDY		TRC2000	40	13.8VDC	£100
TANDY		TRC1004	40	12VDC	£79
TANDY		TRC2003	40	13.8VDC	£130
TENVOX	Voxon Audio Ltd, Abingdon, Oxon	TENVDX	40	13.8VDC	£100
UNIDEN	Crevenmaster Ltd, 31 Madoc St, Llandudno	UNI ACE 100	40	13.8VDC	£59.95
UNIDEN		UNI ACE 200	40	13.8VDC	£79.95
VIPER	Radio 88, Barking, Essex	VIPER 88	40	13.8VDC	£TBA
WAGNER	Knight Communications Ltd Unit 19 Britania Est, Leagrave Rd, Luton	9000	40	13.8VDC	£59.95
WAGNER		COMPACT 40	40	13.8VDC	£25
WESTERN	Western Electronics, Fairfield Estate, Louth, Notts.	COMPACT 40	40	13.8VDC	£34.50
YORK	Sulkin (UK) Ltd, 73 Grosvenor Street, London W1X 9DD.	JCB 861	40	13.8VDC	£89
YORK		JCB 863	40	13.8VDC	£89



SQUELCH	NB SWITCH	ANL SWITCH	MIKE GAIN	RF GAIN	TOPE CONTROL	S/RF METER	S/RF LED R/O	H/I/O OUTPUT	PA FACILITY	EX. SPEAKER JACK	TX IND. LIGHT	RX IND. LIGHT	CH 9 SWITCH	MIKE POSITION	COMMENTS	
•					•	•								FL		LCL
•				•	•	•				•		•	•	FL		LCL
•				•	•	•				•		•	•	FL		LOWE
•				•	•	•				•		•	•	FL		MANOR
•				•	•	•				•		•	•	FL	Maxon chassis	MAXCOM
•				•	•	•				•		•	•	FL		MAXCOM
•				•	•	•				•		•	•	FL		MAXCOM
•				•	•	•				•		•	•	FL		MAXCOM
•				•	•	•				•		•	•	FL		MAXCOM
•				•	•	•				•		•	•	FL		MAXCOM
•				•	•	•				•		•	•	FL		MICROLINK
•				•	•	•				•		•	•	FL		MIDLAND
•				•	•	•				•		•	•	FL		MIDLAND
•				•	•	•				•		•	•	FL		MIDLAND
•			•	•	•	•				•		•	•	FL	The talking rig	MIDLAND
•				•	•	•				•		•	•	FL		MUSTANG
•				•	•	•				•		•	•	FL		MUSTANG
•				•	•	•				•		•	•	FL		MUSTANG
•			•	•	•	•				•		•	•	SL		NATO
•	•	•		•	•	•				•		•	•	SL		NATO
•				•	•	•				•		•	•	SL	Cybernet 134 chassis	OSCAR
•				•	•	•				•		•	•	FL	Cybernet chassis	RADIOMOBILE
•				•	•	•				•		•	•	FL	Report Sep '81	RADIOMOBILE
•				•	•	•				•		•	•	FR	934 MHz—Still waiting!	REFTEC
•				•	•	•				•		•	•	FL	Cybernet chassis	ROTEL
•				•	•	•				•		•	•	FL	Cybernet chassis	ROTEL
•			•	•	•	•				•		•	•	SL	Cybernet chassis	ROTEL
•				•	•	•				•		•	•	FL		SAPPHIRE
•				•	•	•				•		•	•	SL	Up market eleganca Report June '82	SHOGUN
•				•	•	•				•		•	•	SL		SIRTEL
•				•	•	•				•		•	•	FR		SPIRIT
•				•	•	•				•		•	•	FL		STEEPLETONE
•				•	•	•				•		•	•	SL		TANDY
•				•	•	•				•		•	•	SL		TANDY
•			•	•	•	•				•		•	•	SL		TANDY
•				•	•	•				•		•	•	SL		TANDY
•				•	•	•				•		•	•	—		TANDY
•				•	•	•				•		•	•	SL		TENOVOX
•				•	•	•				•		•	•	SL		UNIDEN
•			•	•	•	•				•		•	•	SL	Report coming soon	UNIDEN
•				•	•	•				•		•	•	FL		VIPER
•				•	•	•				•		•	•	FL		WAGNER
•				•	•	•				•		•	•	FL		WAGNER
•				•	•	•				•		•	•	FL		WESTERN
•				•	•	•				•		•	•	SL	Report Oct '81	YORK
•			•	•	•	•				•		•	•	SL	Cybernet 134 chassis	YORK

# REFERENCE

# BASE STATIONS

# BASES



NAME	ADDRESSES	MODEL	NO. OF CHANNELS	SUPPLY VOLTAGE	RETAIL PRICE
DNT	Radiotechnics Ltd, Grove Way, Bel Royal, St Lawrence Jersey Cl.	B40	40	240VAC	£T8A
DNT		B2740	40	240VAC	£T8A
DNT		B5040	40	240VAC	£T8A
FIDELITY	Fidelity Radio Ltd, Victoria Rd, London NW10	CB 300M	40	240VAC	£T8A
GRANDSTAND	See-Ware Ltd, Ripon Way, Harrogate, N. Yorks	BASE	40	240VAC	£220
HARRIER	Dixons Photographic Ltd.	CB HQ	40	240VAC	£130
HARVARD	Harris Overseas Ltd, Harvard House, 14-16 Thames Rd, Barking Essex	H407	40	240VAC	£125
HARVARD		H401	40	240VAC	£149.95
JOHNSON	Star Warehouse Chalk Farm Rd, London	XK 2000	40	240VAC	£99
JWR	Woolfe House, Norse Rd, Bedford	DIPLOMAT	40	240VAC	£194
MIDLAND	Plustronix Ltd, Hempstalls Ln, Newcastle-under-Lyme, Staffs.	76-200	40	240VAC	£150
MURPHY	Murphy Electronics, Wembley, Middlesex	BASE	40	240VAC	£100
SPIRIT	Martello Sound Ltd, Heywood Way, Ivyhouse Lane, Hastings, Sussex	SPIRIT	40	240VAC	£100
WAGNER	Knight Communications Ltd, Unit 19 Britania Estate, Leagrave Rd, Luton LU3 1RJ	BASE	40	240VAC	£150

# PORTABLES

NAME	ADDRESSES	MODEL	NO. OF CHANNELS	SUPPLY VOLTAGE	RETAIL PRICE
BEAR	Air Bear(UK) Ltd, Wortley, Sheffield	RHB 36	3	BATTERIES	£44
BINATONE	Binatone House, Beresford Avenue, Wembley, Middlesex	LONGRANGER	40	BATTERIES	£59.95
DNT	Radiotechnics Ltd, Grove Way, Bel Royal, St Lawrence Jersey Cl	HF 12/3	3	BATTERIES	£47.55
ELFTONE	4 Boraaford Av, Wembley, Middx.	CB30	2	BATTERIES	£T8A
ELFTONE		P-3	3	BATTERIES	£T8A
HARRIER	Dixons Photographic Ltd	WT1	2	BATTERY	£25
HARRIER		WT2	40	BATTERY	£59.99
HARVARD	Harris Overseas Ltd, Harvard House, 14-16 Thames Rd, Barking Essex	0-2-0	2	BATTERY	£20
HARVARD		410T	40	8xAA cells	£69.95
HARVARD		10-4 CONVOY	2	BATTERY	£19.95
HARVARD		H6	2	BATTERY	£29.95
KAISER	Kaiser Electronica Nevrotstrasse 21-25, Waldorf Barden, W. Germany	CBX40	40	BATTERY	£T8A
MAXCOM	A.T.M. A.M. House 9a Olds Approach, Topfits Lane, Watford Herts.	7E	3	BATTERY	£T8A
MIDLAND	Plustronix Ltd, Hempstalls Ln, Newcastle-under-Lyme, Staffs.	75-720	40	12VDC	£59.95
TANDY	Tema Way Tower, Bridge St, Walsall	TRC1001	40	BATTERY	£119

# HAND HELDS



It's much more fun breaking from home when the car's too cold to start - and it saves petrol!



SQUELCH	NB SWITCH	ANL SWITCH	MIKE GAIN	RF GAIN	STONE CONTROL	S/RF METER	S/RF LED R/O	HI/LO OUTPUT	PA FACILITY	EX. SPEAKER JACK	TX IND. LIGHT	RX IND. LIGHT	CH 9 SWITCH	MIKE POSITION	COMMENTS
•						•					•			FL	DNT
•						•					•			FL	DNT
•						•					•			FR	DNT
•						•					•		•	SR	Report May '82
•						•					•		•	FL	The most expensive basal
•						•					•		•	FL	Report May '82
•						•					•		•	FL	Report May '82
•			•			•					•		•	FL	New basa from Herved
•			•			•					•		•	FL	Cheapo basa
•	•					•								-	JWR
•						•								FL	MIDLAND
•						•								FL	MURPHY
•						•								FR	SPIRIT
•		•				•								FL	WAGNER

Why not get out and about with a portable rig? Not only is it fun, there's fresh air too.



SQUELCH	NB SWITCH	ANL SWITCH	MIKE GAIN	RF GAIN	STONE CONTROL	S/RF METER	S/RF LED R/O	HI/LO OUTPUT	PA FACILITY	EX. SPEAKER JACK	TX IND. LIGHT	RX IND. LIGHT	CH 9 SWITCH	MIKE POSITION	COMMENTS
•											•			-	BEAR
•								•		•	•			-	BINATONE
•														-	DNT
•														-	Report June '82
•														-	ELFTONE
•														-	ELFTONE
•														-	HARRIER
•														-	HARRIER
•						•		•			•		•	-	HARVARD
•						•		•			•		•	-	Report April '82
•						•		•			•		•	-	HARVARD
•						•		•			•		•	-	HARVARD
•						•		•			•		•	-	HARVARD
•						•		•			•		•	-	KAISER
•						•		•			•		•	-	MAXCOM
•						•		•			•		•	-	MIDLAND
•						•		•			•		•	-	TANDY

# ANTENNA CHECKLIST

Here's a brief intro

**Name**  
All antennas have a number or name. Or both. Here we tell you what it is.

**Construction**  
Most mobile antennas are made of stainless steel and most home based ones are made of aluminium. This is not always the case though. There are fibre glass mobiles

The Home Office specs for CB antennas are lean and bordering on the mean. Still within that basic framework manufacturers have come up with some good designs. This newly laid out antenna checklist should help you

NAME	ADDRESSES	MODEL	CONSTRUCTION		MAX POWER	TYPE	MOUNT	PRICE RANGE
			LENGTH					
ALLCOM		DPA 2UK	AL	1.5	100	M	-	E
AMSTRAD	Amstrad Consumer Electronics, 1-7 Garman Rd, London N17	CBA 1500	SS	1.5	-		Various	C
ANTENNA INC.		12510 Telecomm	SS	0.9	-	M	3/8ths	D
		Super Perseuder	SS	1.5	-	M	Mag	F
		MR511	SS	1.2	-	M	Mag	G
		M710	SS	1.5	-	M	3/8ths	G
		AS M125	SS	1.14	150	M	3/8"	C
		AS M128	SS	1.14	150	M	-	C
ANTENNA SPECIALISTS	Antiference Ltd, Aylesbury, Bucks HP19 3BJ	AS M131	SS	1.14	150	M	gutter	D
		AS MR 440	SS	1.2	100	M	mag	D
		AS MT178	SS	1.2	150	M	mag	D
		AS M510	SS	1.2	200	M	3/8"	D
		AS M2000	SS	1.5	150	M	3/8"	D
		AS 9812	SS	1.2	150	M	mag	D
		IC 85	SS	1M	-	M	mag	D
		IC 80	SS	1M	-	M	spring-based mag	E
		IC 15	SS	1	-	M	trunk	C
ANTLER	Shakespeare, Performance Antennas, Bolton Rd, Market Drayton, Salop	IC 20	SS	1 1/2	-	M	roof	D
		IC 30	SS	1	-	M	gutter	E
		IC 40	SS	1 1/2	-	M	mirror	D
		IC 80	SS	1 1/2	-	M	mag	D
ARCHER	Tandy Corp., Tame Way Tower, Bridge St, Walsall, W.Mid.	21-904	SS	0.5	50	M	3/8" snap	D
ARMSTRONG	Stateside Trading Ltd., Audley Ave, Newport, Shropshire.	SAM 10	SS	1.06	1,000	M	surface	F
		SAM 20	SS	1.06	1,000	M	surface with spring	F
		TAK 10	SS	1.06	1,000	M	boot lip	F
		TAK 20	SS	1.06	1,000	M	boot lip with spring	G
		MAG 10	SS	1.06	1,000	M	magnetic	G
		MAG 20	SS	1.06	1,000	M	magnetic with spring	G
		BDY 20	SS	1.06	1,000	M	slide & fold over & quick disconnect	G
PEC 20	SS	1.06	1,000	M	boot lip illuminator	G		
		TAK 101	SS	1.06	1,000	M		G
AVANTI	Avanti, 132 Penistone Rd Nth, Sheffield, Yorks.	AV 241 (Moonraker)	SS	1.22	-	M	stud	D
		AV 241 T	SS	1.22	-	M	trunk	E
		AV 241 M	SS	1.22	-	M	mag	E
		AV 241 MM	SS	1.22	-	M	super mag	G
BADLAND	Badland, Roeten Ind Est, Providence St, Lye, Stourbridge.	B10	SS	1.22	-	M	mag	G
BANDIT	Bandit, Roughton Ind Est, Bury St Edmunds, Surrey.	B10	SS	1.42	-	M	mag	G
		B16	SS	0.61	-	M	mag	F
		B18	SS	1.22	-	M	mag	F
		B20	SS	1.42	-	M	mirror	F
		B30	SS	1.42	-	M	drill thru	E
		B30	SS	1.22	-	M	drill thru	E
		B40	SS	1.42	-	M	various	D
		B40	SS	1.22	-	M	various	D
		B50	SS	1.42	-	M	various	D
		B50	SS	1.22	-	M	various	D
				B50	SS	1.22	-	M
C. BRIT	C Brit, Unit 3.6 East Lane, Wembley, Middx.	Stingray	AL	1.5	500	B	pole	H
		Whiplash	SS	1.5	25	M	3/8"	C
CT INTERNATIONAL	CT International, CTE (UK) Ltd Unit 3, Mitcham Ind Est, B5 Streatham Rd, Mitcham, Surrey.	MG27	SS	0.91	-	M	mag	C
DIAL-A-MATCH		Rubber Duck	R	0.3	-	M	3/8"	C
		530 (Cherokee)	SS	0.61	-	M	-	C
		531 HBF	SS	0.61	-	M	-	F
		531 SMF	SS	0.61	-	M	-	F
		540	SS	1.22	-	M	-	E
		541 HBF	SS	1.22	-	M	-	E
		541 SMF	SS	1.22	-	M	-	E
		520 (Halfbreed)	SS	1.27	-	M	-	C

## duction to the world of antennas and what we tell you in our checklist.

and stainless steel home based antennas.

### Length

The longer the better is always my motto. As long as it's not over 1.5 m. Otherwise it's illegal. We tell you the exact length.

### Maximum power

This is given as a guide only. The law allows for a maximum

two watts. However, the higher the maximum power figure given the sturdier the antenna will be.

### Type

It's no use buying a home base antenna if you want to use your rig from the car. We tell you which are which Mobile or Base. At the moment the number of mobile

antennas far outweigh the number of home based ones. But there are more and more home base antennas coming onto the market.

### Mount

The majority of mobile antennas are held in place by a magnet — these are called mag mounts. Others are attached by means of a clamp

to the boot or edge of the roof. Some are drill-through antennas which are just the same as normal car radio aerials.

Home based antennas are poles, tripods or gutter mounts. Tripods are free standing and gutter mounts are attached in a way similar to trunk or bootmounts.

Key:	C:- £10 - £14.99	G:- £30 - £39.99	AL - Aluminium	B - Base
Price Bands	D:- £16 - £19.99	H:- £40 Plus	FG - Fibreglass	
A:- £1 - £4.99	E:- £20 - £24.99	Construction	Application	Note: Prices are given as a guide only.
B:- £5 - £9.99	F:- £25 - £29.99	SS - Stainless Steel	M - Mobile	

NAME	ADDRESSES	MODEL	CONSTRUCTION	LENGTH	MAX POWER	TYPE	MOUNT	PRICE RANGE
DIGITEK UK LTD	179-181 Streatham Rd, Mithcham, Surrey	Falcon 27	SS	1.5	—	M	various	D
OIXONS	Dixons Photographic	Harrier	SS	0.9	—	M	Mag	D
HOT RDD 200	Hot Rod 200, Stateside Trading Ltd, Audley Avenue, Newport, Shropshire	FM UK	SS	1.27	—	M	3/8ths	B
FREEMAN & PARDOW	Freeman & Pardow, Tything Rd, Arden Forest Ind Est, Alcester Warwick	The Invader The Thunderpole	AL AL	1.5 1.5	250 500	B B	pole pole	E F
CB SERVICES	97, Crab Lane, Harrowgate, N. Yorks HG1 3BQ	Bullwhip Knuckleduster	SS AL	1.5 1.5	— —	M B	various —	C D
MIDWEST		Dial-a-tune Dial-a-tune	SS SS	0.61 1.22	500 —	M M	various various	C D
MOCOM	Mocom, Moto Communications Ltd, 140 Sandy Lane, Camphill Birmingham	Revco	SS	1	—	M	various	B
MOTOROLA	Motorola, Taylors Rd, Stotsfold, Hitchin, Herts.	EC106M	—	1.5	—	M	—	F
OCT.	Unit 1 Earlsfield Lane Ind. Estate, Grantham, Unca.	K40 Z27	SS SS	1.4 1.45	500 200	M M	various various	G B
PAN INTERNATIONAL		Pan Mobile 260	SS	1.25	—	M	clamp	—
PANORAMA	Panorama, 73 Wadham Rd, London SW16 2LS	CB27	—	1.22	—	M	mag	B
PRIDOW		KT40	SS	1.5	—	M	trunk	C
SHIRA		SYS 208M SYS 203C MA 62	SS FG —	1 0.75 0.91	— — —	M M M	mag trunk —	C C C
SIRTEL	Sirtel, 24 Alfric Sq, off Maxwell Rd, Woodston Ind. Est, Peterborough	GP Messenger GP Signal Keeper	SS SS	1.5 1.5	— —	B B	clamp tripod	E F
SMC	Oscar, South Midlands Communications, Osberti House, Teston Southampton, SO4 4DN	Oscar Base CBA 11GP Oscar Base II/VIIS Oscar IICM Oscar IICE Oscar IINE  Oscar IISE  Oscar TMCAS	SS SS SS SS SS  SS  SS	1.5 1.5 1.2 1.2 1.5  1.5  1	— — — — —  —  —	B B M M M  M  M	— — mag foldover base 'pull-up' foldover base 'locking-collor' foldover base trunk	F F D B C  C  B
SPYDER		Spyder	AL	1.5	—	B	pole	B
TAGRA	Europaseonic (UK) Ltd, Britannia Works Building, Sherbourne St, Manchester	T40	SS	1.4	500	M	various	E
THOROBRED	ZL Cmmunications, Cantley, Nr. Norwich, Norfolk	251 Z27 Locktune	SS SS SS	1.5 1.5 1.5	— — —	M M M	various 3/8" various	C B C
WITCHSTICK	CJM Motor Factors, Hill Farm Ave, Leavesden, Watford, Herts. 09273-73646	Witchstick homebase	AL	1.5	—	B	—	E
WTA ELECTRONICS	111 Cromer Rd, Halesden, Norwich, Norfolk	Wot Pole Wot Mag	AL SS	1.5 1.5	— —	B M	pole mag	C C
VAN ORDT	Van Ord, Knight CB Specialist, 204 Dunstable Rd, Luton, Beds.	Audio King AKD-100	SS	1.5	200D	M	3/8" 3/8"	G

# ADVERTISEMENT RATES

## 1. SEMI — DISPLAY

(min 2 cm)	£6.00 per cm
6-11 insertions	£5.50 prt cm
12 + insertions	£5.00 per cm

## 2. LINEAGE

21p per word. (minimum 15 words)  
Box Numbers £2.00

Closing date 2nd Friday of the month preceding publication date.

All advertisements in this section must be prepaid.

Advertisements are accepted subject to the terms and conditions printed on the advertisement rate card (available on request)

Send your requirements to: ADVERTISING DEPT., CITIZENS BAND, 145 CHARING CROSS ROAD, LONDON WC2H 0EE.

## SWOP OR SELL ONLY £2.00!

Max. 15 words. Private sales only.  
Ring JO on 01-437 1002



### COMPONENTS

IC's  
Transistors  
**Roger D**

S.A.E. for prices of component

7, Thyra Court,  
Nottingham,  
NG3 5GT.

NOW OPEN in Newcastle, Waterloo Street, Marlborough. Electronic components for the best in electronic components test equipment etc. Tel: 618377.

COMPONENTS, Crystals, large stocks from the experts sent by return. Guildford CB. (0483) 574434.

### CARDS STICKERS & BADGES

#### PLASTIC MEMBERSHIP CARDS

EXACTLY LIKE A CREDIT CARD. Same size, shape and material.

ONLY £13.95 per 100 (min 200)

Including free design, proof, setup. Artwork and p&p extra. Ideal for CB Club cards.

FOR FREE SAMPLES AND ORDER FORM

PHONE 0344 - 84455

or write to: Data Plastics, DP House, The Ring, Bracknell, Berks.

EYEBALL CARDS WITH PICTURES. Your design reproduced. £1.00 plus s.a.e. for samples sheet by return. R. Piper, 24 Albert Street, Maidstone, Kent ME14 2RN. (0622) 682426.

DO YOU QSL? Our QSL rubber stamps are a must for all DX and QSL'ers, personal designs for clubs, etc. Send S.A.E. to: M & M Rubber Stamps, 10 Tolcarne Rd., Newquay, Cornwall TR7 2NQ or phone (06373) 3559.

PERSONALISED QSL CARDS 1000 £13.75. Handcards 1000 £8.70, cheap logbooks, (S.A.E. samples). CB Print, 89 Derwent Street, Consett DH8 8LT.

QSL CARDS SWAPPED 1-4-1, any amount. Blackdog GBQDC-1, Mechanics Institute, Derwent St., Consett, Co. Durham DH8 8LT.

EYEBALL and CLUB BADGES Best quality. Professionally engraved. Special rates for clubs S.A.E.: Artangle (Royston), 16 Kneesworth Street, Royston, Herts. (Trade Enquiries Welcome).

RUBBER STAMPS. Personalise your QSL. Special Designs no problem. Handle & Mount £2.20 (state size). Discounts for Quantity. Two day service. Ring for quote. Stampreo Ltd, 42-44 Princes Rd., Hull. (0482) 48134.

A MUST for genuine CB'ers. Quality rubber stamps for your handle, QSL cards, club emblems. Details (SAE please) from Cuddly Bear, 109 Hale Road, Hale, Cheshire.

### ADVERTISERS

SELL YOUR CARDS, STICKERS & BADGES THROUGH CB CLASSIFIED AND GET THE BEST RESPONSE!

PHONE: 01 437 1002 extn. 204.

### ACCESSORIES

#### ZENITH SPEECH PROCESSOR/POWER MIKE



#### BOOST YOUR COPY P202

The Zenith P202 is an outstanding C.B. accessory. It features a combined speech processor and power mike with optional bypass, designed to increase your range and clarity. Perfect for FM or AM use, the P202 incorporates master gain, mike gain and noise limiter. All micro adjustable, complete with LED indicators. Dimensions 168mm x 148mm x 48mm. Brush made. **£32.85 POST FREE**

#### ZENITH ZX4 MIC SYSTEM DRIVE SAFELY WITH THE ZX4 HANDS FREE OPERATION



£25.85 POST FREE

FM AM SSB VHF UHF P/A

The ZX4 has been developed to improve safety and ease of transmission under increasingly difficult driving conditions. Seat belt restrictions and Police disapproval of hand-held mics make the ZX4 the answer for the mobile C.B.er. The ZX4 is British made and comprises of 18" lexan mic, replacement switched gear knob and control unit. To TX or RX just touch the gear knob. Simple!

SEND 15% SAE FOR TECHNICAL DETAILS ON THE P202 AND ZX4

SHARPSHOOTERS LIMITED  
85a Sussex Road, Eastbourne,  
East Sussex BN21 3TG  
Telephone Eastbourne (0323) 644492

### BOOKS & PUBLICATIONS

CB HANDLE DIRECTORY. Have your handle printed free in your local C.B. Handle Directory for easier copies. Send s.a.e. to A.J.M. Agencies, P.O. Box 78, Swansea SA1 1XL. Clubs welcome.

DUE TO POPULAR DEMAND. The Anglo American DX manual is now available to all CB'ers. Send £1.50 inc P&P to Anglo American, Coronation House, Tolcarne Road, Newquay, Cornwall TR7 2NQ.

AT LAST. An easy to use Log Book. Being A4 it is large, has columnised sections (room for up to 4000 logged copies) and is hardbacked therefore convenient for mobile breakers. With '10' code on cover. Only £2.30. Eyeball cards per 100 £1.90. Also QSL. Send cheque or postal orders to The Breakers Enterprise, 84 Kenwood Road, Portchester, Hants. Golden Numbers!!!

### CLUBS

ALPHA BRAVO CHARLIE International DX Group. Send £4 for DX package plus unit number and try and earn one of our DX awards. 25 ABC 01, PO 84, Liverpool.

### WANT MORE MEMBERSHIP?

Advertise your club through CLASSIFIED

01 437 1002 extn. 204

### RIGS & TWIGS

BLUE LASER ANTENNAS. High quality excellent performance AM FM or SSB. 5m long. Clearance sale — silly prices. Normal price £29.80. Sale price £12.80 plus £1.40 post & packing. Same day despatch. Cheque or P/O to V-Tronix, Freepost, Poole, Dorset BH15 4BR (no stamp required) or ask for a leaflet. Hurry — not many left!

SPIRITS CB WORLD for the cheapest prices on the South Coast. Ring or write for price list. 2 Markey Quay, Portsmouth. Tel: Portsmouth 732234.

COLT BLACKSHADOW 485 80AM 55B £59. Superstar 360FM £169. Tristar 777 £118. 40. UK Enterprise £22. Post Free. Guildford CB (0483) 574434, Access, Barclaycard. C.O.P.



**SUPER STAR 360.** As new, little used, professional mods. Better than most. £140. Maidstone 672116 (PM).

**DO YOU HAVE A SERVICE OR A PRODUCT TO SELL TO CB USERS? THEN USE BRITAIN'S BEST SELLING CB MAGAZINE. TELEPHONE CB CLASSIFIED 01 437 1002 EXTN. 204**

**PYRAMID 11m C.B. LOFT AERIAL.** Designed for maximum performance at minimum cost. Superb AM/FM/SSB, e.g. delighted sidebander copied 7 states in one afternoon. Supplied complete with full instructions for just £5 inc. P&P. Why pay more? Send now for prompt dispatch. D. Knox, 20 Pullan Avenue, Eccleshill, Bradford BD2 3RT.

**934 MHz BY REFTEC** now in stock, including accessories. 27MHz rigs from £26.00. Phone for latest prices (Midland 4001 £64.50). Goods sent securicor. Everite, 4 Coventry Road, Hinckley. Phone Hinckley 634453.

**EYEBALL EYEBALL**

- The Superb Shogun Rig just..... £54.95
- Zatagi B30 25 watts linear..... £13.95
- Hundred Lot Linear..... £39.95
- Mighty Magnum III..... £22.95
- G.A.P. 27 1/2 wave..... £18.95
- Electronica Special..... £27.95
- Thunderpole..... £18.95
- 18 foot Dipole..... £4.50
- Antenna Switch III into I..... £4.95
- Leson D.T. 251 Basecompression Mic..... £29.95
- Sirtel 1 Echo Mic..... £21.50
- Philmore Telephone Handset..... £12.95

A kigawa CB test meters. Tests all functions including Deviation and modulation. All details on request..... £47.35

**AUTOMATIC ANTENNA switch.** Fully automatic RF switching use high gain receive antenna and legal transmit antenna, £9.95 + 50p p&p. BG Electronics, Freeport, Shildon, Co. Durham DL4 2BR.

**WEMBLEY FOR CB.** CB and accessories at discount prices. E.G. Harvard 410T 40 channel handheld rig, only £53.95. Call or ring Tinsmann CB, 3-9 Wembley Commercial Centre, East Lane, Wembley, Middx. 01-904 3507.

**2 METER SSB Transceivers** from £138. Full range including Trio, Yaesu, Asden etc. Credit facilities. Guildford CB. 0483 574434.

**PERSONAL**

**MEET NEW FRIENDS.** Free brochure/list 18-80 years. Sue Carr Agency, Somerset Villa, Harrogate. Tel: 0423 63525 any time.

**J & R**

Friendship and marriage services.

**LONELY?**

We know your problems — because we have had them too. For a confidential and friendly service write to:  
J & R, Victoria House, 26 Queen Victoria Street, Reading, Berks.

**SWOP OR SELL**

**SUPERSTAR 360 FM/AM** Legal stamped £125. Phone Southend (Essex) 529754 day-time. Ask for Bob.

**SWOPPING OR SELLING?**

**DO IT CHEAPLY AND QUICKLY.**

**FOR ONLY £2.00 (max 15 words)**

**in CB CLASSIFIED**

**01 437 1002 extn. 204**

**(OR INDICATE CLEARLY WHEN YOU RETURN COUPON BELOW THAT YOU REQUIRE SWOP OR SELL SECTION).**

**(PRIVATE SALES ONLY)**

**CLASSIFIED ADVERTISEMENT — ORDER FORM**

If you have something to sell now's your chance! Don't turn the page — turn to us!  
**Rates of charge:** 21p per word per issue (min 15 words). Please indicate heading you require

and post to: **CITIZENS BAND, CLASSIFIED DEPT., 145 CHARING CROSS ROAD, LONDON WC2**

Swop or Sell  Private Sales only

					Swop or Sell
					15 words
					2.00


Please place my advert in **CITIZENS BAND** for . . . . . issues commencing as soon as possible.

I am enclosing my Cheque/Postal Order/International Money Order for: (delete as necessary) £. . . . . (Made payable to A.S.P. Ltd)

Please use **BLOCK CAPITALS** and include post codes.



OR Debit my Access/Barclaycard (Delete as necessary)



**Name (Mr/Mrs/Miss/Ms)** . . . . .  
(delete accordingly)

**Address** . . . . .

**Signature** . . . . . **Date** . . . . .

**Daytime Tel. No.** . . . . .

All classified advertisements must be paid for in advance.

**CITIZENS' BAND  
PRESENTS BRITAIN'S  
BEST C.B. SHOP  
GUIDE!**

## THE SHOP

**CQ-CB SHOP.**  
1-3 St. James' Rd. Gravesend.  
Tel: 67171.  
Open: 7 days. Mon-Sat 10am-5.30pm.  
(Fri 8pm) Sun 10am-1pm.

**PLEASE CALL  
SHEILA ON  
01-437 1002  
TO BE INCLUDED**

### DERBYSHIRE

**ILKESTON CB SUPPLIES**  
19 Station Road, Ilkeston  
Tel: 0602 324840  
OPEN: Mon-Sat 9-6 Sun 9-1

### LEICESTERSHIRE

## Good Buddies

Discount CB Center. 186 Jarrold  
Street, Leicester.  
Tel: Leic. 540641.  
Open: Mon-Sat 8am-6.30pm, Sun. please  
telephone. Retail and Wholesale.

### SCOTLAND

**AXDON**  
32 Atholl Street, Perth. Tel: 0738 23753. Open 6 days.  
CYBERNET, MIDLAND, HARVARD, FIDELITY.  
Mail order service available.  
Everything for your CB at AXDON

### DORSET

**MOTOR-MOUTH CB**  
148, Barrack Rd, Christchurch.  
Tel: (0202) 486207  
Open: 7 days 9.30am-6pm.  
(Sun 10-2)  
Retail and wholesale

### LONDON

## AUDIO ELECTRONICS

C.B. radio & test equipment  
301 Edgware Rd. W2. Tel: 724 3564.  
Open: 6 days. Call in & see for yourself.  
C.B. & test catalogue send 22p SAE.

### SURREY

**R p & h electronics Ltd**  
72b Reading Road, Yateley,  
Nr. Camberley.  
Tel: Yateley (0252) 877222.  
Open: 9am-5pm.

### KENT

## FABULOUS PHONES

Rigs from £19.95  
72 High St. Orpington. Tel: (0689) 74051  
Open: Mon-Sat 9am-5.30pm  
Late Night: Tues and Thurs 8.00pm

### SOUTH LONDON'S C.B. CENTRE

22 Maxted Road, SE15.  
Tel: (01) 639 3424  
Open: Mon-Sat. 9am 'till late.  
Rig repairs carried out on site.

### WALES

## DUKES OF HAZZARD

MARKET STREET, BRIDGEND.  
Tel: Bridgend 67444  
Wholesale enquiries: R&B COMMUNICATIONS  
LTD. Sole distributor for TARREN. Tel: 63383

### MIDDLESEX

## C.B. CITY

506 Lady Margaret Rd. Southall.  
Tel: (01) 578 6507.  
Open: 6 days 10am-6pm Fri 8pm closed Weds.  
Full repair and fitting service.

### YORKSHIRE

## contact electrical

70 High Street, Bentley, Doncaster.  
Tel: 0302 872251/537540  
Open: Mon-Sat 9am-5.30pm Sun 11am-1pm  
RETAIL/WHOLESALE

## IMAGEFREE LTD.

FOR THE BEST IN C.B.  
1-3 Station Road, Rainham, Kent.  
Tel: Medway (0634) 373960 Ext. 2  
Open 7 days a week Main agents for Superkrunch.

Please include my business details in the next available issue of Citizens' Band:

Business Name: .....

Address: .....

Tel. No.: .....

Open Hrs: .....

Contact (Office Use Only): .....

Post To: Breaker Bases, Citizens Band, 145 Charing Cross Rd, London WC2H 0EE

**ONLY  
£17.50!**

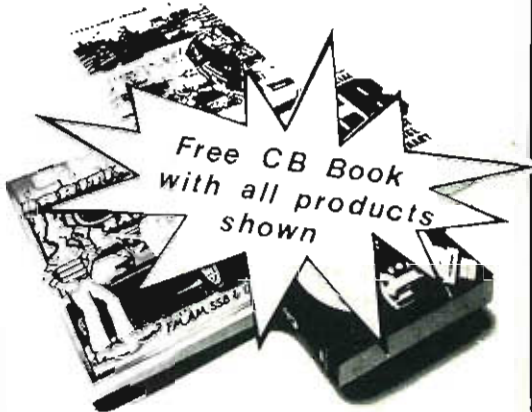
*The Best of British*

GAP Sky Leader  
5/8 Wave

GAP Sky Breaker

GAP 27 Mhz  
1/2 Wave

GAP 27 Mhz  
5/8 Wave



GAP Lofty

GAP Ringoplane

GAP Supamag

# **Gamma Aerial Products**

**MANUFACTURERS OF AMATEUR RADIO & CB ANTENNAS**

**LYE, WEST MIDLANDS. TEL. LYE 891132**

# FOR THE PROFESSIONAL AMATEUR



**ProTel**

Unit 1, Earlsfield Lane, Grantham  
Tel: (0476) 76928

405-407 Lordship Lane, London, N17  
Tel: 01-808 5656

**OCT**  
#1 in Electronics and Communications