

AN ARGUS SPECIALIST PUBLICATION

FEBRUARY 1986

# CB

# Citizens' Band

Britain's Leading Communications Magazine

£1.10p

EXCLUSIVE

## *I SPY FOR THE DTI*

We investigate the RIS

## *CEPT SPECS*

What will it mean?

## *TAKING THE MIC*

A look at what's around

PLUS

## *TALKIN' TRUCKS*

Our big-wheeling column



# THUNDERPOLE II & III

**Thunderpole Mk II & Mk III from the UK  
Market leader of the fastest selling high  
performance legal base station antennae.**

## The ever popular Mk II

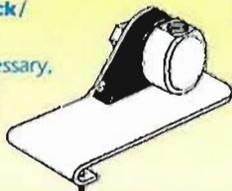
- Base loaded ribbed coil design on a single radiating element 1.5m long. Doubly encapsulated windings for maximum performance and all weather protection.
- Pre-tuned and requiring no S.W.R. adjustment
- Precision machined alloy base with 3 angled ground planes each 2.67m long with cross bracing, designed for maximum performance.
- Power handling 500w, frequency 27mhz, S.W.R. 1:1.5 or less.
- Base for 1 1/4" diameter. Pole mounting.

## The Mk III-one step ahead of the rest

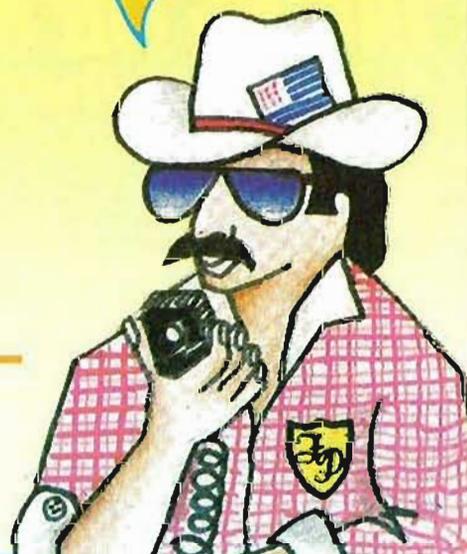
- Centre loaded helically wound coil with low radiation angle. Shrink wrapped for all-weather protection.
- Bigger diameter, radiating element 1.65m long, making the most of the latest H.O. specifications.
- Power handling 500w wide frequency band covering 120 channels, low S.W.R.
- Suitable for all models—AM, FM, SSB.
- Base for 1 1/4" diameter. Pole mounting.

## Thunderpole Hatchback/ Boot Mount

No drilling or soldering necessary,  
standard 3/8" UNF. Thread  
mounting adjustable angle  
with positive non-slip  
action.



THUNDERPOLE  
Simply the  
Best!



**THUNDERPOLE ANTENNA U.K. LTD.,  
a subsidiary of Freeman & Pardoe Ltd.,  
Tything Road,  
Arden Forest Industrial Estate,  
ALCESTER, Warks. B49 6ES.  
Phone: Alcester (0789) 762673.**

**Ask for Thunderpole at your local stockist**

**THE THUNDERPOLE design and  
name are registered trade  
marks of Freeman & Pardoe Ltd.  
©Freeman & Pardoe 1984/1985/1986.**

# CB Citizens' Band

## Contents



### Inside this month

We take a look at the world of microphones for citizens' band radio

Editor . . . . . Eamonn Percival  
 Group Editor . . . . . Sue Sharp  
 Ad Manager . . . . . Tom Connor  
 Designer . . . . . Footprint  
 Managing Editor . . . . Wendy Palmer  
 Editorial Director . . . . Ron Moulton

Normally published on the third Friday of the month preceding cover date.

Citizens' Band Magazine A.S.P. Ltd., 1, Golden Square, London W1R 3AB. Telephone 01-437 0626. Typesetting and origination by Characters (Reading) Ltd., Reading, Berkshire. Printed by Simpson Drewett and Co. Ltd., 70 Sheen Road, Richmond Surrey. Distribution by Argus Press Sales and Distribution Ltd., 12-18 Paul Street, London EC2A 4JS.

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. ©1985 Argus Specialist Publications Limited.

**FEBRUARY 1986 VOLUME 5 NUMBER 3**

Update . . . . . Latest CB News	6
Back Chat . . . . . Your thoughts on monitors, and more	8
Q & A . . . . . More questions from the smartest of Alocs	12
Mack Chat . . . . . Chat from Mack about this and that	37
QSL . . . . . Cards, names and addresses	19
Lady Breakers . . . . . A female writes	17
Truckstop . . . . . A trucker's luck	15
I Spy for the DTI . . . . . Exclusive RIS Interview	30
A United Europe . . . . . Good news, or bad	26
Taking the Mic . . . . . Mike chat	28
Club News . . . . . What's going on	34
Readers Services . . . . . Back numbers, subscriptions etc	38
Reference Section . . . . . Buyers' guide	39

*Prices quoted are those prevailing at press dates and are subject to alteration due to economic conditions. You are advised to telephone prior to ordering or sending money.*



# TELECOMMS

## NEVADA 934 MHz PERSONAL (CB) RADIO



**NEVADA 934 Mhz SWR/POWER METER**  
This precise and extremely accurate meter features an illuminated scale, low loss 'N' type connectors and twin meters for both power and SWR measurement. Power 0-60 watts in two ranges.

**£89.95**



**NEVADA HRA 900 934 Mhz MASTHEAD PRE-AMPLIFIER**  
Super low noise GaAs FET pre-amplifier that mounts at the masthead. Low insertion loss and noise (typically 0.8 dB) coupled with 15 dB gain enable this unit to double the received range of many sets.

**£139.95**



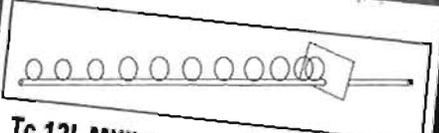
**NEVADA WR900 ECONOMY SWR/POWER METER**  
Measures power in three ranges up to 100W and direct reading of SWR. A must for the 934 Mhz enthusiast.

**£49.50**



**UNIACE PRO 4000 934 Mhz MASTHEAD PRE-AMPLIFIER**  
A mast head pre-amp with DC feed through the coax - no need for extra wires. Overcomes feeder loss to substantially boost incoming signals.

**£99.95**



**Tc 12L MKII NEW 12 ELEMENT BEAM**  
A new aluminium version of our successful 12 element loop quad. This beam is now better than ever.  
• We guarantee this antenna has more gain than any similar 12 element Yagi array.  
• Designed by Mike Walters one of the UK's leading microwave antenna engineers.  
• Built in low loss noise feed system to a high quality 'N' socket

**SPECIFICATIONS:**  
Gain: 18 dBi. Front - Back ratio 25 dB.  
Weight: 0.7 Kg Length: 53.5 ins.

**£49**



**The Cybernet Delta 1 934 Mhz Transceiver**  
We are proud to have been involved in the development of this radio which was made for us by Cybernet, specifically for the UK market. It uses "state of the art" Technology with a sensitive receiver and many additional features. Already over 1,000 are in use around the UK. Contacts of over 200 miles range have been achieved with these sets under certain conditions.

**NEVADA 934 Mhz PROFESSIONAL ANTENNAS**  
MANUFACTURED TO THE HIGHEST POSSIBLE SPECIFICATION.

**PA7-E BASE COLINEAR** - Our top of the range base antenna supplied with mounting brackets, weatherproof tapo, and 'N' connector. Gain 7.14 dBi. Stacked 1/2 array. **£66**

**P7-ME** Mobile magnetic mount stacked colinear with 7.14 dBi gain **£44**

**P714 RE** Fibre glass, high performance fold over, gutter mount antenna **£44**

**P7-RE** Stacked colinear, fold over gutter mount version of P7-ME **£44**

**38 ELEMENT LOOP YAGI** Highest gain beam on the market! 26 dBi, custom made. P.O.A.

**H.P. AVAILABLE**  
(Subject to status)  
Just £35 deposit. Ring for details.  
(A.P.R. 36.8%)

**£355**  
+ £5 SPECIAL DELIVERY



**NEVADA HRA 934 L 934 Mhz In-line GaAs Fet Pre-Amp**  
A super new, ultra-low noise pre-amp which is fully weatherproof and may be mounted in line, at the masthead, next to the set, or in a mobile installation. Guaranteed to give a staggering increase in received range - you will hear stations that were not audible before!

**£125**

## SPECIAL OFFERS FOR FEBRUARY

Maxcom 30E Transceiver	£69.00
Pulsar 27 Mini Beam	£24.50
FM Car Radio Booster	£8.50
AKD "Vampire" reduces bleedover	£12.50
AKD Signal Booster 27mhz Pre-amp	£12.50
Zetagi V4 4 Way Switch	£8.50
Ham International TW232 S Base Mic	£37.50
Sadelta LM20 Throat Microphone	£19.50
Zenith ZX4 Remote Mobile Microphone	22.75
3 Metro Retractable Mast	13.50
Rama Extension Speaker w/noise filter	£8.50
Sadelta HM30 Amplified Hand Microphone	9.95
Eurasonic 40 Channel Transceiver	39.95

### \*NEW HANDIC MICMAN

2 Channel portable 27 Mhz radio. INCL. Headset/Mic with Selcall fitted as standard. Ideal for outdoor sports enthusiasts. Send for details.

**£139**



**BOOKS**

CB De-Luxe Log Book	£3.95
CB Log Book	99p
CB Jargon Book	99p
Practical CB Troubleshooting	£2.50
CBers SSB Manual	£1.50
CB Radio Service Manual	£3.95
CB Radio Service Manual	£1.50
Pictorial Guide to Installation and Repair	£1.50
CBers Bible	£2.95

### KAISER CBX 40

40 Channel Hi-Spec hand held. This is the Rolls Royce of hand helds with crystal filters fitted as standard, and rugged construction uses handy rubber duck antenna.

**£98**



### SKYLAB BASE ANTENNA

High performance base antenna with a full 1/4 wave radiator handles up to 1 kw of power with a terrific 7 dB's of gain. Provides optimum sensitivity on receive. Our special price

**£24.95** inc p.p.

### STOP PRESS STOP PRESS UNIACE 400 934Mhz Transceiver

Due to a bulk purchase we can now offer these sets at an incredible low price of.

**£245** INCLUDING DELIVERY

This is your chance to try the fast growing 934Mhz band. H.P. available (subject to status). Just £25 deposit APR 36.8%.



### UNIDEN CR 2021 COMMUNICATIONS RECEIVER

This superb receiver covers 150 KHz to 30 Mhz 76 Mhz to 108 MHz. Features: "Direct" manual scan or memory tuning. "LED" display. "A sleep timer." "AM/FM/SSB/CW" reception (with filter). "With over 25 years involvement in the radio business we can thoroughly recommend this radio to any short wave listener."

**£169**

+ £5 Special Delivery



### 934 Mhz ENTHUSIASTS CATALOGUE

Send in £1 for our special 934 Mhz catalogue, and receive a £2 Telecomms voucher. Contains technical info + full details of our product range.

**SAME DAY DESPATCH**

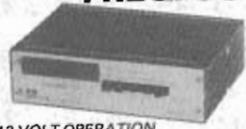
# HOTLINE (0705) 662145

TELEX: 869107 TELCOM G

# THE U.K.'S LEADING C.B. DISTRIBUTOR

ALL ITEMS ARE AVAILABLE FROM OUR AUTHORISED DEALERS THROUGHOUT THE U.K. - OR DIRECT

## CTE FD 1350 1.3 GHz FREQ. COUNTER



For the technically minded this counter is ideal for both 27Mhz and 934 Mhz use

**£159**  
HIGH RESOLUTION

12 VOLT OPERATION

## SADELTA EC980 ECHO UNIT



You can now have the famous Sadelta Hi-quality echo sound on any mic of your choice.

**£49.95**

## ALTAI DM315E Hand Echo Mic

With the echo control sensibly adjusted this mic adds power and clarity to any transceiver.

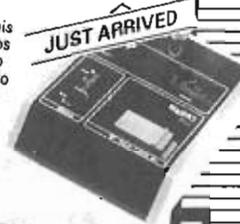


**£27.95**

## SADELTA "BRAVO PLUS" Base Microphone

Definitely the last word in base power microphones. This new microphone incorporates a unique processing circuit to give 'crisp' and 'punchy' audio that will cut through the hash and make your signal stand out in the crowd!

**£39.95**



JUST ARRIVED

## UNIACE MOBILE RADIOS



**£89.95**

Manufactured by Uniden Corp. Japan.

**£69.95**

Each set is supplied with a full specification certificate from our Service Dept. before despatch.

## CYBERNET BETA 3000



These Beta 3000's were specially labelled for Ford, and are being sold as the Ford 'ROADMASTER 505'.

**£79.95**

## SSE EXTENSION 'S' METER

A clear accurate signal/power meter which may be used on any make of 27 Mhz transceiver (with wiring diagram). Designed to plug directly into the Cybernet Delta 1 934Mhz transceiver.

**£19.95**

## UNIACE 300 BASE STATION



One of the finest base stations made for the UK. Each set is supplied with a full specification certificate from our service dept after individual pre-delivery checks.

**£169**

## NEW MODULATOR Base/Mobile Antennas

NOW IN STOCK  
NEW Super Saturn Base Ant. **£28.35**  
Twin Coil T/Bolt Mobile **£13.35**  
Big Twin Modulator Mobile **£24.55**

FREE MODULATOR LEAFLET IN EVERY TELECOMMS CATALOGUE! ADD £2.00 p.p.



## RADIOTECHNIC RT852

An exciting new set from Radiotechnic featuring a new squelch design that combines both noise level and carrier level control; extremely low cross modulation; superior sensitivity; improved mixer and filter design a set we can thoroughly recommend.

**£69.95**

## Tm 27 ANTENNA MATCHER



**£10.95** (100 WATT)

## Tc2 2 WAY ANT SWITCH



**£6.50** (200 WATT)

## PLP1 LOW PASS TVI FILTER

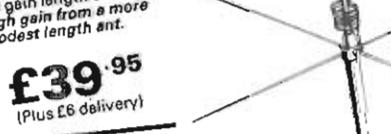


**£6.81** (200 WATT)

## NEW HIGH GAIN ANTENNAS FROM C.T.E.

**SALIUT 27**  
3/4 wave Sigma II type base ant. 6.5 dB gain. Length 9.1 mtrs. The highest gain vertical ant. on the market. **£49.95** (Plus £6 delivery.)

**SPACE LAB 27**  
5/8 wave hi-gain base ant. 5.3 dB gain length 6.6 mtrs. High gain from a more modest length ant. **£39.95** (Plus £6 delivery)



## MINI GP127 LOFT ANTENNA

An extremely efficient ant. Complete with loaded ground planes - suitable as a loft or outdoor mounted antenna. **£19.95** (Plus £3.00 delivery)



## NEVADA TC27 RXM 27 MHz RX Pre-Amp

This is an extremely low noise amp with over 20 dB's of gain - designed to boost reception on even the best rigs!

**£17.95**

## THE 1986 CATALOGUES

Dear Breaker,  
It would be impossible to do justice to our entire range of products in just two pages, our 1986 27MHz catalogue does it much better. Packed full of pictures and technical information it is a must for any serious enthusiast. Why not send off £1 for your copy today and in addition receive a £2 Telecomms voucher. Also during this month we are including a full colour catalogue from Zenagi or CTE absolutely free!

Thousands of breakers have already discovered the speed and efficiency of our mail order team. Helen, Shirley and John pride themselves in giving unparalleled service - no 28 days waiting here, every order is dealt with SAME DAY - and quite rightly!

With the backing of one of the most extensively equipped service departments in the UK you can purchase from us with the assurance that problems should they arise will be dealt with quickly by professionals. Incidentally they can offer full rig checks and repairs at very reasonable rates.

We've become the biggest by being the best with over 200 approved dealers around the UK - so why not write to us today and get on the Telecomms Wavelength too?

Yours sincerely,  
Mike Devereux  
MANAGING DIRECTOR



USE YOUR CREDIT CARD FOR IMMEDIATE DESPATCH

TELECOMMS, 189 LONDON ROAD, PORTSMOUTH, HANTS PO2 9AE





# UPDATE

**NEWS  
FROM  
THE  
WORLD  
OF  
CB  
NEWS  
FROM  
THE  
WORLD  
OF  
CB  
NEWS  
FROM  
THE  
WORLD**

## Editorial

Well, Nimrod's letter in the November issue certainly caused a stir. If you remember, he was bemoaning the lack of channel 9 monitors generally and REACT monitors in particular. Space does not allow us to publish all the correspondence we have received on the subject but we have carried a fair representation of feelings on the matter. To me, it begs the question, "What exactly is a monitor?" Must you be a REACT member — or a member of any other monitoring organisation? Does your name need to be registered somewhere or other so you can be clearly identified as a *bona fide* monitor? Must you be on the telephone?

Well, it appears to me (and I hope I'm not stirring up another hornets' nest here —

oh, so what if I am?) that a monitor is someone who has the time and inclination to listen in to channel 9 for emergency messages and, more importantly, someone who has the intelligence to know what to do if and when one arises. It's no good panicking and then simply flicking around the channels trying to find someone who knows what to do. It's not a good idea to rush to the phone, dial 999, and then realise you don't have enough details to give them. And, have you established, to the best of your knowledge, that the call was genuine? A tricky one, this, with the number of hoaxsters about and you could be committing an offence, relaying hoax emergencies to the police.

I tend to agree with the REACT directors that, in Nimrod's case, his wife was, in

that incident, a monitor. She heard the call and eventually got the message through. Nobody is *born* a monitor, but it is often the case that a certain *type* of person makes the best monitor. Most monitoring organisations throughout the country offer special training in emergency procedures, but this is in no way compulsory. You don't *have* to join such an organisation (although it must be said that most of them do a great job in actually *organising* rotas and suchlike). If you feel confident in your own abilities in dealing with an emergency, then what's to stop you monitoring channel 9? Member badge or no member badge, surely it is better than the emergency channel being left otherwise unattended?

**Eamonn Percival**

## Quick Thinking for Quickbrew

A Nottingham man's life was saved recently, thanks to the fast action of local monitors. Kenneth Wells, 55, known to fellow breakers as Quickbrew, was at home alone when he suddenly suffered a dangerous blood clot. Ken, who can only get around with the aid of wheelchair or crutches, could not get to a telephone and so reached for his rig instead. Monitors on channel 9

moved swiftly into action and, while some contacted police and ambulance services, others kept Ken conscious by talking to him until the emergency services arrived to break down the door.

Ken is now out of hospital and, upon his release, immediately put an advertisement in his local newspaper to thank all the breakers who helped.

## Farewell Midnight Express

It is with great regret that we report the closure of *Midnight Express*, the technical newsletter produced by Specialist Engineering Services. Sadly, the number of subscriptions was insufficient to cover printing costs and the proprietor Martin Pickering, tells us the newsletter was running at a loss. Martin, however hopes to circulate CB information sheets with repair hints and tips in the future.

We will let you know more of this when we hear from Martin.

Meanwhile S E Services are not closing down altogether, as they will be supplying a conversion board for the soon-to-be-introduced FCC frequencies. These boards will be marketed by S J Tonks CB Components, 18 Simmonds Place, Wednesbury, West Midlands. Again, we'll let you know more as and when.

## DTI Must Return Rig

After the Department of Trade and Industry seized a CB rig belonging to a 45-year-old disabled man, magistrates have ordered them to return it "with all haste". However, William Rowse, of Stenalees, had to forfeit the part of the system which was illegal; a linear amplifier which boosted the output to 20 watts.

Rowse told St Austell Magistrates that he was at fault for having an illegal amplifier but that it was only being used as a bridge as there was a mismatch between rig and antenna. He also said that he had no objection to the forfeiture of the linear, as it was only part of a "box of tricks" he had bought. He pointed out that the radio itself was legal and that the antenna had since been altered so that there was no need to use the linear.

Magistrates ordered the seizure of the amplifier and the return of the radio, and Rowse was given a conditional discharge for 12 months, after paying £25 court costs.

## CB Information Pack

With *Citizen's Band* the only remaining CB magazine in the UK, and the sad news elsewhere on these pages that *Midnight Express* has ceased publication, we were interested to receive a copy of *The CB Information Pack* — *National Revised Edition* from J. S. Telecommunications.

The publication is a revised edition of a local CB information pack which was produced in the Dorset area 18 months ago. It is not a glossy, colour magazine — rather, it is a stapled booklet of single-sided photocopied sheets. However, it is packed with information on CB and seems ideal as either a basic guide to CB for newcomers or a handy reference tool for those already well-established.

Twenty-five pages of information cover Q-codes, 10-codes, RST codes, Morse, phonetics, frequency guide, gain, SWR, interference, lightning protection, pre-amps, a technical glossary, fault-finding guide, sel-call, CB jargon and lots more (we particularly liked the hilarious version of the Twelve Days of Christmas, too!)

With the pack comes a guarantee that, if anyone purchases one or more packs and they are not 100% satisfied, their money will be refunded *promptly* (with the condition that the pack or packs are returned, undamaged, within ten days).

The price of the Information Pack is £1.95 (post and packing free) and those interested should contact: J. S. Telecommunications, 35 The Avenue, Poole, Dorset BH13 6LJ.

## Circuits for Sale

In our November issue, we mentioned the fact that we do not hold a stock of circuits for CB rigs. Since then, Roger D of Mansfield have been in touch with us, pointing out that they keep a comprehensive stock of circuit diagrams

for rigs new and old. They suggest you contact them first, before sending money, so they can check that they have what you want. Either write to Roger D, 831 Mansfield Road, Nottingham NG5 3GF, or telephone (0602) 265250.

## DTI Seize Equipment

Four men from the Portsmouth area recently ended up in a magistrate's court for transmitting on illegal frequencies, and forfeited thousands of pounds worth of equipment.

The four defendants said that they had been at pains to ensure they were not causing

interference to neighbours.

All four were conditionally discharged for a year after admitting unlawfully using CB equipment, and each had to pay £46 court costs. The magistrates also made orders for the forfeiture of the equipment.

## Organisation of Radio Clubs

In our Club News pages in the November 1985 issue, we stated that the Organisation of Radio Clubs' meetings are held at the Robin Hood public house in Ripley. In fact, the ORC meets at the Red Lion. Sorry, chaps.

While we are on the sub-

ject of the ORC, they would also like to thank all the breakers who took part in their sponsored modulation on behalf of the blind and disabled in their area, which took place on 9th and 10th November. They report that donations received will be going towards purchasing CB equipment for the blind and disabled.



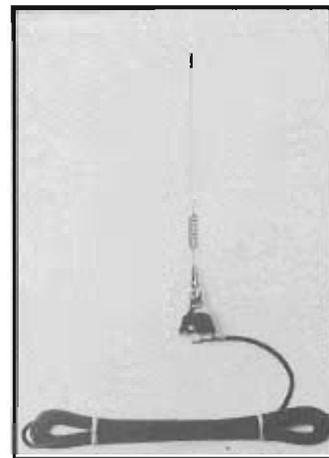
## New 934 from Nevada

Telecomms of Portsmouth recently introduced two new products for 934MHz. The Nevada G900A and the G900R are 'low profile' mobile antennas, offering 3.5dB gain with wide angle coverage.

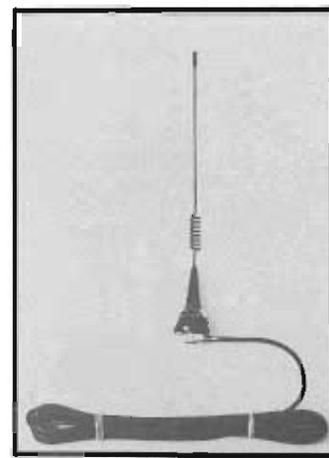
Each antenna is supplied complete with 4.8 metres of cable and, while the G900A is fully adjustable with an inox steel whip, the G900R is finished in black in common with many cellular radio antennas. Both antennas feature an 'SL' UHF low-loss base/connector. They are both of 50 ohms impedance and work in the frequency range 920-934MHz. Maximum power is 50 watts and they each measure approximately 335mm in length.

Telecomms tell us that for certain uses in built-up areas, they have found lower gain and wider angle radiation to be an asset over the narrow angle, high gain existing range of antennas they distribute. The wider acceptance angle of their G900 range, they say, gives better average levels of reception/transmission than higher gain mobile antennas. Both retail at £25.

Another introduction to Nevada's range of 934 equipment is the WR900 SWR/power meter. Competitively priced (£49.50) It is a single meter unit with three power measurement ranges up to 100 watts and accuracy is rated at + or - 18%.

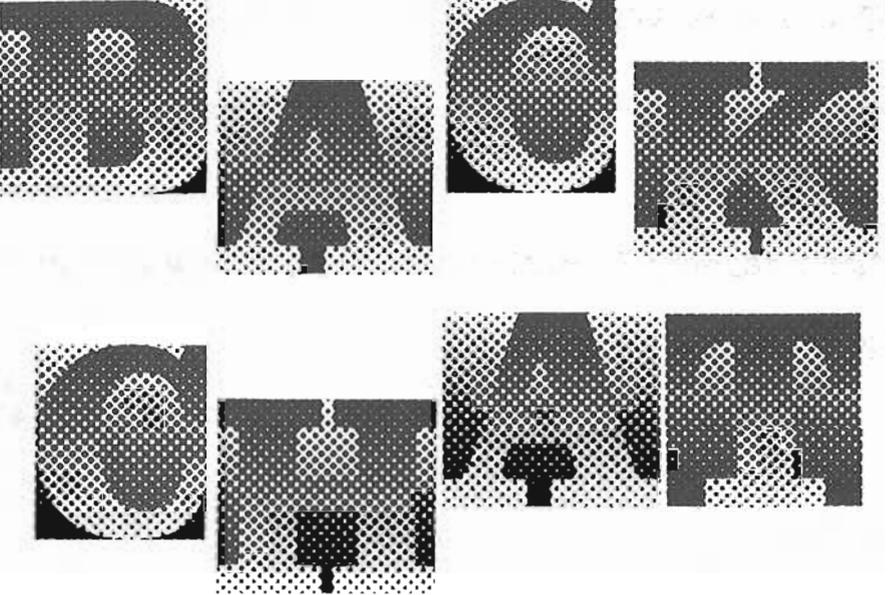


(Top) WR900 SWR/power meter; (Above) G900A 934MHz antenna; (Below) G900 934MHz antenna





## More thoughts and opinions from readers



### Reply to Nimrod

*In reply to Nimrod's letter (November), the Executive Board of REACT Directors send this reply...*

The Editorial comment that accompanied your letter states that you have little faith in Monitoring organisations... on reading your letter, we suspect that you also have little faith in yourself, for your wife took the call from disabled people requiring assistance on the M6.

You have declared that "now is the time to form a club or similar to clean up your frequencies". We would wholeheartedly agree with you, and offer our total support and co-operation when you start such a group. It is easy, you see, to pontificate on what should be happening, and what should be being done...but have you noticed that these things should always be done by "someone else"?

Why couldn't *you* be the "someone else" this time?...when you have set up a system of administration to correlate replies, raised sufficient funds to finance the scheme, recruited enough unpaid helpers to deal with the mail, organised a method of "getting the word" to all CB users, I am sure you would receive tremendous support.

On your reference to CB groups, whatever the mode and alleged attitude that "one's face must fit...one must think along the same lines etc", it is always so much more pleasant, particularly in a voluntary capacity, to work with and alongside people that have similar objectives, feelings and methods, don't you think?

As for your allegations about so called REACT Monitors and the incident on the motorway, permit us to lift your horizons and broaden your viewpoint... all "in the best possible taste" of course.

It seems paradoxical for you to complain that the REACT monitor did not hear the call, and then complain with equal ferocity that your wife could not take the call due to interference by

those unfortunates known as "wallies", in common parlance. Might I suggest that the REACT monitor did not hear the call for the same reason? I notice that you mention that your wife took the call, "although she is not a monitor". If she *took* the call as any responsible CB user would when required, she *was* a monitor at the time! I am curious as to what you think a monitor is. They are human beings, and become monitors via training, dedication, commitment and patience. They do not, contrary to common supposition, have to undergo weird and secret rites involving rolled up trouser legs, up turned mikes, bent daggers and initiation ceremonies.

Why should the "so-called monitors" feel small just because a group of troublemakers rendered it impossible to hear the call? The troublemakers should feel small. The dedicated monitor, REACT or otherwise, merely feels saddened and upset that a call has been missed. On your constant reference to the "so-called" REACT monitor, to alleviate your confusion, permit us to clarify that any fully paid-up, currently registered member *is* a Monitor, and is not in the twilight half world of the "so-called".

REACT UK members have the facility of a National Private VHF frequency, and this additional tool has rendered it possible for Teams everywhere to extend their programme of community help. The provision of radio safety nets on events is now much more reliable from the point of view of the Event Organiser, and Teams have found such a satisfying new dimension to their work that many Teams operate almost every week and throughout the summer months. Every Team has the right to evaluate for themselves whether to continue their programme of monitoring Channel 09 when they are "booked" to do an event radio safety net. It may be that the Team decide that the number of people they can help on an event far outnumber the odd call they *may* be able to hear on Channel 09 due to the uproar on which you have commented.

Just a thought...it may be that your local Team simply hadn't quite enough personnel to cover that particular hour. Why don't you join them, thus boosting their numbers, and making it easier for them to cover more hours?

You see, Nimrod of Wigan, it is so very easy to flick round to Channel 09 in a bored five minutes whilst waiting for your Auntie Flo to come back with the chips. It is easy to hear a call in that random moment, take it, and then spend a hugely self-satisfied two days writing to *Citizens' Band* telling them how wonderful you are. That isn't what makes a good monitor. It would be magical monitoring time folks, if we could all turn on when we know there is a call, take it, and turn off again when we fancy. That isn't what makes any monitor, so-called or otherwise. What makes a good monitor, Mr Nimrod, is the ability and selfless patience to sit, hour after boring hour, through a regular four-hour shift, hear nothing but rubbish, never take a call for weeks, and yet still do it again tomorrow, next week, next year...just so that the monitor can be sure that when a call *does* come through over the abuse, they will be there to help. *That* is a Monitor.

Finally, what seems to have been overlooked in all of this. You have used the incident on the M6 as a tool to castigate our members, denigrate all independent monitoring groups, and generally complain that no-one will start a "clean-up" campaign. Surely, the main object of the whole exercise of your taking the call is, quite simply, *someone* was helped. The fact remains that, by whatever means, CB radio assisted a group of disabled people on the M6 who were in difficulty. Surely, that is the point. Surely, that is what CB is all about. Surely this type of assistance has to be good for us all.

## Taunton REACT Replies

*Another response to Nimrod's letter in the November issue, this time from the Team Leader of Taunton REACT...*

I felt I had to put pen to paper when I read the letter from Nimrod (November issue). I cannot speak for Wigan REACT, or REACT HQ, but 09 is not the sole property of REACT, or any other emergency organisation, and anybody monitoring 09, and hears a 10.33, is allowed, and should be encouraged to give any assistance they can, and here I can only praise Silver Bell for being able to do all she could in that emergency.

If he feels so strongly about the fact that "so-called" monitors are not monitoring, why doesn't he (or may be he has already) contact Wigan REACT, and offer to help them, rather than have a dig, when he probably does not realise how many times there has been a monitor on 09 when somebody has asked for help.

For example, our Chairman has his rig switched onto 09 all night, and has quite often had his beauty sleep disturbed by an emergency call, one time from a breaker who was ready to end it



Lots of React reaction this month

all, and just needed somebody to talk to. Another time he was telephoned by Taunton Police at 3am, because breakers were DXing on the local hills, using power, and managing to wipe out most of the emergency channels.

That is just two of the wide range of emergencies that we deal with, and I hope that it proves we are dedicated breakers, who help others whenever and wherever possible, whether it be on 09, or monitoring a fun-run or any other event.

I hope that if you print this letter, that it may make Nimrod, and others like him, who feel that all we are about is being able to boast that we belong to REACT, and add another badge to our collection, that what I have written will make him shrink in size just a little, and to offer help rather than criticise something which I do not think he has taken the bother to find out much about.



## More REACT Reaction

*Someone who describes himself simply as A REACT Monitor from Scotland writes...*

I am writing to you regarding Nimrod's letter in the November Back Chat. I notice he does not give his name when he slams REACT monitors. In fact, you will find one on channel 9 24 hours a day in all parts of the country from south of the borders to the high-

lands of Scotland. I know you will find them in most parts — if not on channel 9 (because of the wallies) then on channel 19, so please do not cast slurs on REACT or on monitors. They do a great job and it is good to know they are there monitoring channel 9 or 19.

## Monitor Madness

*Worzel Base writes from Nottingham with a few words about the problems monitors face...*

In reply to Nimrod (November), I was once group leader of the Lima Echo Mike (Local Emergency Monitors) which folded up because monitors were not prepared to sit on channel 9 and be open to all sorts of verbal abuse and offensive threats.

REACT Nottingham are the same as the national body. They get more satisfaction from monitoring something like the Nottingham Marathon, yet are thanked for their efforts on CB channel 9.

You help someone today so they come and swear at you tomorrow. I have monitored channel 9, both as part of a group and independantly, since the birth of legal CB. Channel 9 in Nottingham regrettably, is unworkable at present. The blame lies with just three breakers who operate without due respect to others. We have quite a number of handicapped, housebound breakers in Nottinghamshire and Derbyshire who have, in the past, had to make emergency calls via a channel 9 monitor. I am very strongly in favour of the laws being changed making it an offence to use channel 9 for any other purpose than emergency and assistance.

In the past five years, I and many others have dealt with many emergencies. I don't intend to throw this effort away to Igor, Gasman, Goblin and all the black sheep joining their flock. I intend getting rid of them by every legal means.

## Please Don't Touch

*Martin Pickering from North Yorkshire warns those who love to fiddle...*

I was interested to read in the November issue the letter from **The Conductor** who is concerned about maladjustment of CB radios. It is true that people do twiddle without any idea of what they are doing but there is test equipment on the market. The simplest to use is a deviation meter, which at least two of your advertisers supply. One company supplies an excellent kit which is simple to construct, but really needs to be calibrated with laboratory equipment.

By far the most important piece of equipment is an accurate frequency counter having at least a seven-digit readout. Prices start at around £100. If this seems too expensive, please forget all about twiddling with CBs.

Signal generators are of little value in setting up a CB radio, particularly as regards transmission performance, and they require expert knowledge to connect and interpret results.

When I align a receiver, I use another rig to transmit a few microwatts into the input stage for rough alignment, followed by the use of a wobulator and oscilloscope to set up the IF stages.

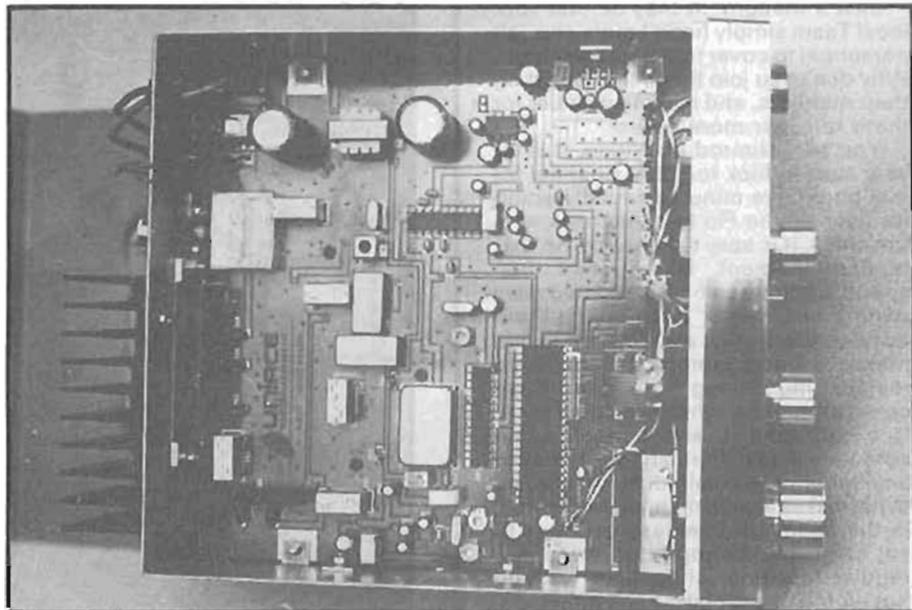
## Deviation Deviants

*Moonbase Alpha, from Wimborne, sticks up for sidebanders...*

Silly time on the air has come round again and I feel that I should put a few people right about the dreaded "sideband wipeout" that most stations seem to suffer from in this area (Westmoors/Tickets Cross/Ferndown). Nearly all the SSB received on the legal frequencies is from abroad; a very small percentage comes from local wallies who don't seem to know any better. There is no hope for these poor souls.

However, by far the biggest cause of interference blamed on SSB users comes from people using badly set up legal equipment. There are, around this area, two or three stations who must have deviation levels of at least 15Kc and to cap it all they use a power mike with the gain turned up full. These stations, checked on my receiver (shows a picture of what's on the band, on a scope screen), take up a bandwidth of about 30Kc. That's nearly three channels wide.

We users of other bands/modes ask you UK FM stations to get your own house in order — all those naff power mikes and echo boxes, not forgetting the over-deviation specialists. Sort these out and the sideband wipeout will all but disappear, leaving the average UK FM station a nice clean band to swear and play music on! How about it, FM crew? Wake up to the fact that you don't need four watts to talk five hundred yards — a favourite trick round here with the resulting splatter blamed on sideband wipeout. Fit crystal filters and resist the urge to tweak up a rig (the small increase in



Don't fiddle, says Martin Pickering

power is not worth the effort). After you have done this, you will find the band is very well behaved and a pleasure to use.

In short, be sure of what you are talking about before you blame the shortcomings of your setup on sideband wipeout.

## Talking Rigs

*Blunderbuss, from Burnley, suggests a cheap way to produce "talking" rigs...*

With reference to your article "Talking Rigs" in the Update section of your November magazine, there is surely a much simpler and cheaper way to either produce rigs for the blind or to convert existing ones. Quite simply, replace the channel selector dial with a slightly larger one with the lower channels marked with a Braille-like system of dots and dashes.

The operator can quite easily count up or down to other channels if the dots were to go up from channel 9 to channel 19. I suggest these numbers because they include channel 9 which could be marked with a larger dot or cross, and both recognised breaking channels which could be marked with another easily recognised symbol. The remaining channels on the dial could be marked using either Braille or Morse.

The cost of producing these replacement dials would not only work out very low, but at least one blind person could find employment through the new production as I understand that a blind person is capable of operating a small injection moulding machine.

## Night-time DX

*Mike, from Flat 1, 3a High Street, Torrington, Devon, wants some long-distance copies...*

With your permission, through your magazine, I would like to ask if anyone is interested in a night-time DX

net (it may appeal to ex-SSB users). The only rules would be:

1. All stations to be licence holders.
2. All contact to be made within the UK 27MHz FM band only.
3. All stations to use standard power output (4 watts, no amplifiers).
4. All stations to use call signs (Alpha Bravo etc) not handles.
5. RF to be in horizontal polarization through directional beams (I know beams are illegal but better these than large amounts of wattage into inefficient coils, causing TVI).

The reason for horizontal use is to reduce the risk of bleedover from vertical users and to keep the risk of interference down for other users locally. Some other recommendations are night-time use so city dwellers have a look in, and the use of channels 1 to 5 for initial contact as just one calling channel could easily be in use by other breakers not involved in the net. The idea will only be put into practice successfully if people are prepared to be patient with conditions.

As I said, this is only an idea. If anyone is interested I look forward to hearing from them.

## Whoops!

*Bob Marsh, from Barnehurst, writes to clarify a point...*

Having just read David Lazell's interesting article, "Pioneers and Pirates" in your September issue, I must point out one error. The first Radio Caroline was the MV Frederika, from which I have a QSL card, and not the Mi Amigo as stated in the article. The former was scrapped in Holland in, I believe, the late 1960s and the latter is, of course, reposing at the bottom of the Thames Estuary!

Letters should be addressed to: Back Chat, Citizens' Band, 1 Golden Square, London W1R 3AB

# A New Addition to the T-Bolt Family...

You've seen the neat little T-Bolt,

You've seen the high performance  
super T-Bolt and read its superb  
test-report.

And now, the Modulator People  
offer the ultimate in the T-Bolt  
range...

## The Super T-Bolt Colinear

This antenna has quality,  
reliability and looks as  
good as it performs.

You'll be surprised  
at the price too!

Another Winner  
from the  
**'MODULATOR'**  
people

**Les Wallen  
Manufacturing Ltd.,**  
Pembroke Works,  
Ramsgate Road,  
Sandwich, Kent CT13 9NW.  
Telephone: (0304) 614598

**Trade Enquiries Welcome.**



Welsh home, where I received a visit from a member of the Radio Investigation Service. At the time, my car, complete with Tristar, was parked on the drive and I had just completed some minor repairs to the Hygain, which I had then tested, simply to make sure that it worked, before returning it to the car.

I explained that although my British licence was still valid, I no longer owned an FM rig, since I was no longer a British resident. Asked about the Hygain, I explained that I had just repaired it, upon which the RIS officer suggested that that was a pity, since he was about to seize both it and the Tristar, because they were illegal in the UK. I pointed out that the rigs had been purchased in Ireland and had been allowed into this country by a Customs Officer but still they were seized, pending, as I was told, possible legal proceedings. Both the linear amp and the frequency counter were left in place.

Please can you offer any advice as to the likely outcome of this ridiculous situation?

**A** Our Irish friend has quite a problem. There appears to be no hard and fast rule about carrying rigs from one country to the other in circumstances such as this. It is clearly illegal for a British subject to import multimode rigs but it is not uncommon for foreign nationals to be allowed to retain theirs, on the clear understanding that they may not be used whilst in this country. I am, however, slightly surprised that he was allowed through Customs without the rigs first being sealed.

He does not say just how he tested the repaired Hygain but if, as I suspect, he made a test transmission, he has clearly contravened British regulations in so doing and this may well be what led the RIS to his door in the first place.

Such a visit to a British citizen would, almost inevitably, lead to prosecution but I cannot say for certain whether legal action would automatically follow in the case of a foreign visitor. A written enquiry to the Director of the Radio Investigation Service, at Waterloo Bridge House, Waterloo Road, London SE1 8VA might help to clarify the situation but I must emphasise the fact that under present legislation the RIS has the right to apply to a court for the permanent forfeiture of the seized rigs. If, on the other hand, they choose not to take legal proceedings then the rigs must be returned.

It is possible that our friend might be charged with unlawful installation and use but one point worth bearing in mind is the fact that a recent High Court judgement defined installation as a single finite act, committed only on the first occasion that a rig was wired into the car and, since this clearly took place in the Irish Republic, he is unlikely to be convicted on this charge unless, in testing the rig, he has fixed it to an antenna power source within the house. A charge of unlawful transmission, however, is far more difficult to defend. Remember

*that each act of keying the mike, even into a dummy load, constitutes a transmission, whether or not speech was present and our friend may well have rendered himself liable to prosecution in this manner.*

### Any answers?

*Dave, ERG 02, from Edinburgh, has beaten us all...*

**Q** Back in May 1985 I bought an "Elbex PD8500" multimode base station rig with push-button auto-scan. I have been involved in CB DX since 1978, during which time I have owned a wide variety of rigs, some good, some bad, and I thought I had heard of them all until this Elbex, which, I might add, is a superb machine, came along.

My problem is the fact that, despite extensive enquiries, I can find no other example of this marque, nor any information on it. A circuit diagram would be most useful and I would count an operator's manual as a real bonus. Please can you, or any of your readers offer any information about the Elbex? For example, where it was made and whether it appears under any other brand name. Is it, for instance, the big brother of the Expert PD8500?

**A** Well, Dave, this one is a real puzzler. Like yourself, I have been involved with CB since the seventies and have, in my time, met a few obscure makes of rig but I have never heard of either the Elbex, or Expert PD8500. Undaunted, I made a few enquiries among the more venerable members of the Citizen's Band editorial staff, only to find that I was not alone in my ignorance. Neither did a couple of hours talking to some friendly dealers provide any clues.

All I can do is to throw the question open to our erudite readers, in the almost certain knowledge that someone, somewhere out there, has the information you seek.

Please can anyone fill this lamentable gap in both mine and Dave's education?

### Big Ears

*Alain, from Sunbury-on-Thames can hear you all right but...*

**Q** I have a choice of two rigs, a Fidelity CB1000 and an Amstrad 900, both of which I use in conjunction with a Quatro magmount antenna. I have been very pleased with the reception of both rigs but never seem able to transmit to some of the people I can hear. So far as all the normal tests have shown, both the microphone and antenna are working properly. Please can you offer any advice on how to improve my transmission range, so that it is equal to my reception capabilities?

**A** Well, Alain, I must say that your problem makes a change from all the cases of deaf receivers which normally come our way. It is difficult to advise

*you without knowing a little more about your operating conditions. For example, is the magmount in the centre of the car roof and is the roof vinyl covered?*

*If the antenna is set to one side of the car then you will have a better ground plane in one direction than another and this can have quite an effect on transmission range, whilst a vinyl roof covering tends to make the antenna slightly more capacitive, with some deterioration in performance. You might also improve matters by changing from a magmount to a more secure form of lixing, which would improve the earth contact between the car and antenna.*

*Another thought is that the coaxial cable supplied with many magmounts is not of the best quality. Electromagnetic waves run along the outer surface of the inner core of the cable, so the greater its diameter, the better the signal is carried.*

*I assume that your own tests have included checking the power output of the rigs, since it is unlikely that both are developing less than the lull 4 watts but, if you have not already done so, this might be worth a look.*

*I am sorry but we have been unable to find out whether CB is allowed in Kuwait, as you ask in another part of your letter but, even if it is, it is most unlikely to coincide with British specifications, so there would be little point in taking your present rigs with you.*

### Power to the people

*Tim Crowe, known to one and all around Humberside, as Pacman, is unsure about power mikes...*

**Q** I have bought a power mike to use with both my base and mobile rigs, a Fidelity 3000 and an Audioline. Please can you tell me whether I can expect any problems in fitting the mike and can you either confirm or deny the comments of my friend, who claims that power mikes are illegal because they raise the signal power?

**A** Let's deal with the last question first. The use of power mikes is perfectly legal, since your friend is wrong about their ability to increase transmission power, though, legal or not, I am afraid that you are most unlikely to be able to use the same mike on both rigs. The connections are different from one make of rig to another and changing over would require the mike to be re-wired every single time.

Power mikes are really only at their best when used with SSB rigs, in which the audio strength affects the outgoing signal strength. In an FM rig the output power is fixed and owes nothing to the audio, therefore there is no increase in signal strength. The only obvious effect is likely to be that your audio becomes a little more crisp, though this advantage should be weighed carefully against the fact that using a power mike can tend to "over-drive" an FM rig, with potentially disastrous results so far as the power amplifier is concerned.

# SHARMANS WHOLESALE

3 Bury New Road, Manchester M8 8FW

Tel: 061 834 9571 Telex 665446 SHARMA G

*Now the Sole Importers  
and*

*Distributors for the*  
**MAXCOM MX7E**

*Portable Mobile  
Transceiver*

**DISTRIBUTORS FOR:**

**HARVARD<sup>®</sup>**

**maxcom**

**DNT**



**CTE INTERNATIONAL<sup>®</sup>**

**LES  
WALLEN  
ANTENNAS**

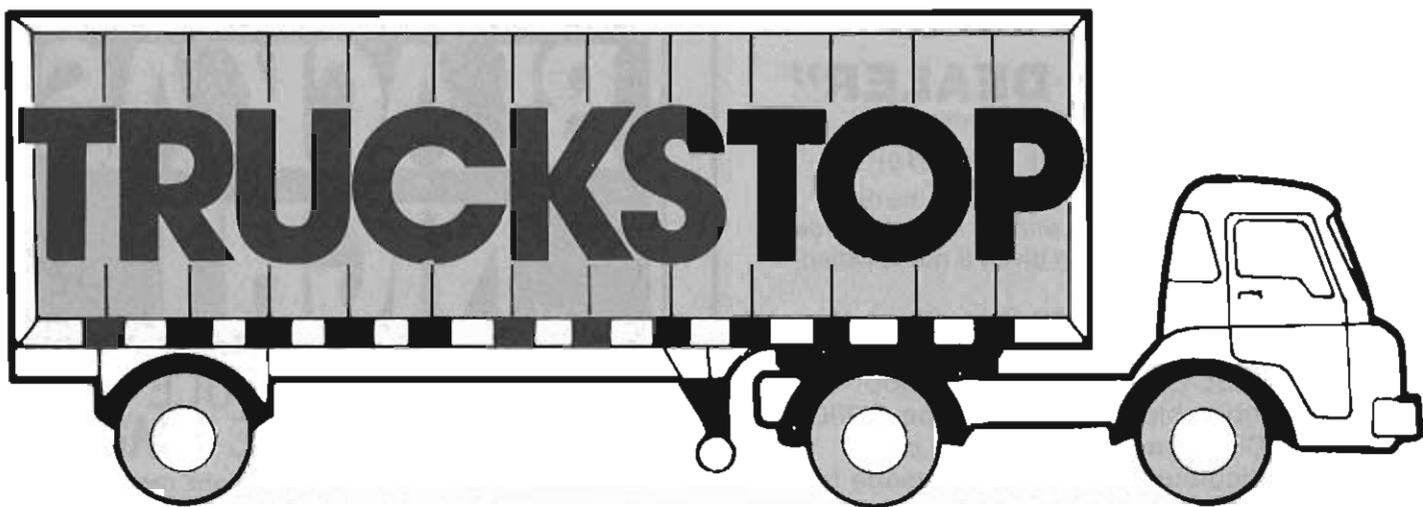
Extensive ranges  
of CB equipment in  
stock at the best prices for you!

**TRADE ONLY**



Instant, Fully Portable and Mobile 4  
Watt, 40 Channel Transceiver  
Complete with antenna, magnetic  
mount, power connector, battery pack,  
carry case and belt clip.  
Squelch and Volume control, TX  
indicator and attenuator switch.

**RING NOW FOR OUR SECURICOR DETAILS!**



I would like to thank Bunny the Glaswegian for his/her letter in the December issue — like Bunny, many of my friends in different parts of the country seem to be having great difficulty in getting any help at all from the RIS/DTI. The answer always seems to be that they are under-manned. With the amount of money they receive from licence fees and the very high unemployment rate, surely the answer is easy. Anyway Bunny, I shall take your advice so listen out. I shall hopefully catch you on one of my trips up north.

Last week found me down on the south coast near Brighton, a part of the country I don't go to very often. After doing the easy drops, I found I had a new customer to deliver to near Horsham and a quick shout on the 19 was answered by Popeye who talked me through the last five miles to my destination. This was a tremendous help to me because I encountered a 13ft bridge and my trailer is 13ft 6ins! Popeye was able to direct me avoiding this, and promised to come down to meet me. After I had unloaded, as promised, Popeye and his daughter Budgie came to see me. I am sorry I could not spend too long with you as I had lots of work still to do that day but many thanks to you both for your help and I sincerely hope we can meet again one day.

### Accident

After the terrible accident involving the coach and cars where thirteen people lost their lives and on which I reported in last month's issue, I have spoken to and earwigged many of my fellow truckers discussing their thoughts. Some would like to see coaches restricted to 60mph and banned from using the third lane whilst others, myself included, think this would cause even more problems with the bunching of vehicles in the first two lanes. I travel our motorways five, sometimes six days of the week and find the standard of driving is, in the main, disgraceful. Fellow truckers sit inches behind cars that will not move out of the centre lane and, for the amount of notice most drivers take of the speed limits and motorway signs, they may as well scrap them. Miles before we reach a contra-flow roadworks etc,

---

### This month, Big T offers some thoughts on the standard of motorway driving in this country

---

there are warning signs telling drivers to get into a particular lane, but when we reach the trouble spot, I can guarantee there will be chaos. Cars are by far the worst offenders. Many seem to think they are on a race track. Monday morning and Friday evening on the M1 are frightening and its a wonder more people are not killed — and the smokies do not seem to care.

### Kilo Bravos

This month, instead of choosing a monitor or cafe of the month, I have decided to devote the space to a very well deserved CB club, the Kilo Bravos from Sheffield. On 2nd November, 1985 I was invited by Barry (Oddleg), Terry (Texaco) and Doreen (Do-Do) to the Kilo Bravo first reunion night at Sheffield. Myself and Dragonfly travelled the 90 miles in our caravanette intending to stay overnight. We arrived at about 6.15pm to find breakers from many parts of the country already there. It was a pleasure to meet a lot of people I had spoken to but hadn't met face to face. A very good evening was had by the 200-plus breakers attending and who were treated to a plate of pie and peas. Cabaret was provided by Barry, Terry and Doreen who, as usual, had everyone in fits of laughter.

My reason for including this in my Truckstop column is because I am full of admiration for the Kilo Bravos. The club has been in existence for 3½ years and has 200 long distance members with 100 local lads and ladies and, up to the time of writing, a total of £1,837 had been donated to the Sheffield Children's Hospital. A further £500 was handed over on the night of the reunion making a grand total of £2,337. Do-Do (Doreen) told me that as well as the fantastic amount above, another

£1,800 had been handed over to purchase a ventilator machine for the Wayne Little fund. Well done Kilo Bravos, you are all a credit to CB.

Whilst I was in Sheffield, I renewed acquaintances with Martin who prints the Ensign QSL cards and was shown a few samples of their new designs and, in my opinion, to date these are the best I have seen. These cards are not cheap but I think that, for the serious DXers, they are a must and worth every penny. I fully intend to get a new design printed for Eileen and myself in the very near future.

### Truck King

Last week I called into Truck King of Watford and, as you have seen from their adverts in the magazine, they are one of the biggest CB stockists in the country. Richard and his staff were very helpful informing me that they stock up to 60 new and secondhand rigs, 934 included, and around 40 different homebase and mobile twigs. I found their prices were very competitive and enjoyed my half hour with them and do hope to call and see them again soon. Parking too, is no problem, which makes a pleasant change. I can't give you a full run down of all the goods they supply as I would need too much space. Besides CB equipment, they also sell air horns, wheel trims and many more truck goodies — a first class catalogue is available at a cost of £1, and this includes £10 discount vouchers, an order form plus a pre-paid envelope. The shop is open Monday to Saturday 9am to 6pm and, for telephone enquiries, the number to ring is 0923-661673.

### Golf Romeos

This month I would like to close with a few words to my friends in the Golf Romeos, Gloucester, so to OO Ivor, O3 Gordon and especially the 20 Michael. I am not taking singing lessons, I think my voice is perfect the way it is and Ivor, there is no truth in the rumour you have started that my Truckstop page is going to be perforated! Happy New Year to all my many CB friends, stay lucky.

Big T

## WHY NOT CALL "TROPHY DEALER"

(Recognised CB Handle)

*Everything for the CBer*

Now dealing in C.B. Equipment  
All items personalised with no minimum order  
required. C/o. Refunds given if not satisfied.

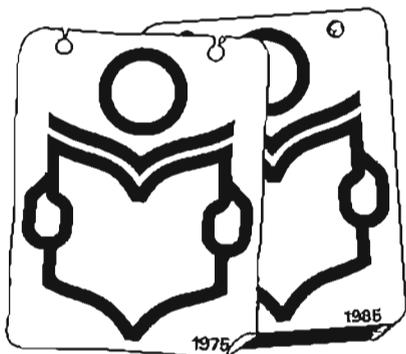
T-Shirts £3.50 Complete  
Sweat Shirts £5.99 Complete  
QSL Cards £30.00 per 1000  
Membership Cards £20.00 per 1000  
Cloth Badges from £1-£4 each  
Multicoloured, various sizes made to  
individual's requirements  
Car Stickers 80p each  
Ties/Scarves £2.50 each  
Metal "Handle" Badges from £1.00 each

*We also supply a specialised printing service to  
CB Clubs. "Secretaries" WHY NOT LET US PRINT  
YOUR CLUB MAGAZINE ETC?*

Open 7 days a week. Sundays 10-6. Personal callers welcome.  
We are situated only a few minutes away from Junction 1 - M5.  
Ample car parking facilities.

**WEST BROMWICH SPORTS TROPHIES**  
41-45 Bull Street, Ringway,  
West Bromwich, West Midlands  
Tel: 021-525 1231

## Adult Literacy -the first decade



In 1975 the adult literacy campaign  
was launched to help the 2,000,000  
adults who had difficulty with  
reading and writing.

By 1985 350,000 adults had received  
help with literacy.

For further information

**Adult Literacy & Basic Skills Unit**  
PO Box 213 London WC1V 7ET

For help with Reading and Writing ☎ **01-405 4017**

# BLACK AS NIGHT

## KESTREL INTRODUCE THE NIGHTS OF THE ROAD

Now available, the exclusive 'Night' range of  
antennas from Kestrel. Superb, hard wearing Jet  
black aerials giving you a choice of centre or base  
loading. These high quality spring steel whips are  
built to take the knocks and come with a standard  
3/8 stud fitting. Low SWR is obtainable on all types.

Make your choice from

### NIGHT WIDOW (A)

Overall length 54". Centreload.  
Rigid base section to promote  
even signal pattern.

### NIGHT FLIER (B)

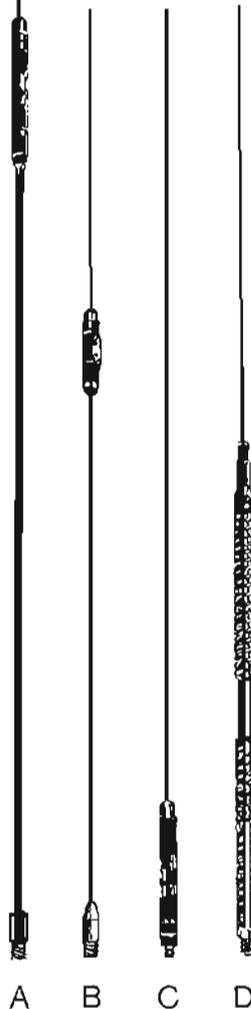
Overall length 43". Centre  
load. Highly flexible  
throughout length. Ideal for  
truckers.

### NIGHT TRUCKER (C)

A compact, flexible aerial 34"  
in length. Base loaded. Ideal  
for truck cab mounting.

### NIGHT HAWK (D)

Double base loaded coil. 68"  
in length with flexible whip.



For further details call or phone  
**KESTREL ELECTRONICS,**  
ACORN HOUSE,  
DEVITTS GREEN LANE,  
ARLEY,  
COVENTRY CV7 8HP.  
Telephone: 0675 81605





# LADY BREAKERS



This month, Filly is haunted by the spectre of St Valentine

**S**t Valentine's Day is nearly upon us again and I suppose we'll have to endure the usual rows of vulgar red hearts shouting at us from the shelves when we set foot in the card shops, the pages of coy messages in the newspapers.

You needn't think I disapprove of Valentine's Day because no-one ever sends me a card. Oh dear me, no. Mind you, it's true. No one ever does. But then, I wouldn't *want* to receive a soppy Valentine with kisses all over it and some inane message scrawled anonymously inside.

How undignified to go rushing down the stairs on a cold February morning just to see if there are any pink envelopes

among the post. Thank goodness I've long outgrown all that sort of nonsense. Mind you, if even Elaine in the bakery can get two every year, with that long face and silly laugh of hers, you'd think... but perhaps she sends them to herself.

Come to think of it, it's not strictly true that I never get Valentines. Take last year, for instance, although I can't say I was exactly flattered.

## Frosty

It was a typically bleak, frosty morning and I was driving to work, feeling rather peeved. Not, I hasten to add, because I had received no Valentine (my husband is impervious to hints, dates, anniversaries, you name it) but because it seemed even the radio stations were given over to the sickly sentiments of February 14th. I switched the radio off, and turned to CB in quest of more mature entertainment.

The first thing I heard, needless to say, was some stupid female going on about the card she'd just received, the usual thing, heart-shaped, scented... "I can't think who it's from!" she cooed. I hastily switched to another channel and was fortunate enough to find a like-minded breaker bemoaning the empty-headed frivolity of St Valentine's Day which, he said, was responsible for the collapse of the British Empire (he hadn't had a card either).

Everyone at work seemed to have a Valentine to chuckle and exclaim over except me. No one had even sent me a fake one. Worse still, they all sympathized with me! It was unbelievable. There I was, congratulating myself on my escape, and they were sorry for me! If we'd realised you wanted one, they said...!

I drove home that night in a fearful temper, ready to snap the head off anyone who dared say "Valentine" to me. I turned on the rig, hoping to find some sensible conversation, and listened to a number of irritatingly jolly conversations before I found myself on channel 20, a popular one with the breakers in our district. But there was to be no escape. Someone was talking about a Valentine's Day joke being played on somebody or other. I was about to turn the radio off in a huff when I heard a familiar name.

"Filly will be wild when she finds

out", a voice was chuckling. "We all know what she thinks of Valentines! Who thought it up?"

"Dunno", said another voice, "But the word went out after she was on the air this morning complaining about Valentines! I wouldn't be in his shoes when she finds out!"

"When she finds out what?" I snapped, breaking in on the conversation. There was silence; the cowards had fled the channel. I flicked through the channels and caught my handle again. It seemed I was being discussed all over the county!

Ignore them, I thought, be aloof and dignified. Of course they resent my adult superiority, refusing to join in these childish traditions.

As it turned out, it proved a little difficult to ignore the 'joke'. My front door wouldn't open. Something was blocking it; after shoving at it for five minutes, I managed to stick my head round to see what was obstructing it.

## Envelopes

Envelopes, scores of them! Pink ones, yellow ones, purple ones, large and small, a small mountain of them in the hall! I struggled through the doorway and waded through the pile, picking up a handful. They all had "Filly" written on them, in a variety of different handwriting, but no address. I opened a few; gushing (anonymous) messages of admiration! Just what I would expect from the sort of half-wits who'd do something like this, I glowered.

My husband came home. I shoved a fistful of cards under his nose; he tried not to laugh.

"Were you in on this?" I snarled. He denied it, but admitted that he had seen a large box in the local grocer's with "The Send-A-Valentine-To-Filly Appeal" written on it in large letters. The "appeal" had been advertised locally over the airwaves, and it seemed that the locals had responded with enthusiasm!

In spite of myself, I had to laugh. The cheek of it! I confronted the grocer, an old "friend", the next day, but he wouldn't let on whose idea it was, and I never did find out. Just as well for whoever it was!

Perhaps I'll keep my opinions to myself this Valentine's Day. After all, I don't care if no one sends me a Valentine.

# NEW! NEW!

## Q.S.L. Q.S.L. Q.S.L.

SAXON PRINT are delighted to announce the launch of the

# BLACK SAXON CARD

These prestigious collectors' cards will be individually numbered, have a tonal quality to the printing, will incorporate the finest designs and most importantly will possess a deluxe, quality, textured finish. Furthermore, you don't have to be a millionaire to own one of these exclusive cards as they are well within the reach of everybody's pocket.

250  
for  
£15.00

500  
for  
£25.00

CLUBS &  
PERSONAL  
1000  
for only  
£35.00



CLUB INVITATIONS  
AND CERTIFICATES

ROSTERS

RUBBER STAMPS

NEWSLETTERS

PRICES AVAILABLE  
FOR CLUBS  
S.A.E. PLEASE

FOR YOUR  
COMPLETE CLUB OR  
PERSONAL  
REQUIREMENTS

QSL CARDS FROM  
£10 per 200 + 50p  
p & p C.W.O.

*Black Saxon 00*

Whether your heart lies with DX or SWAP start 1986 with a touch of quality, style and most importantly SOMETHING NEW

# “SAXON PRINT”

14 STIRLING ROAD, CASTLEHAM IND. EST.

HASTINGS, E. SUSSEX. Phone 0424 52332. 3 lines

Telex 946240 CWEASY G Ref 19013120

OUR PERSONNEL WILL BE AT YOUR DISPOSAL TILL 9pm, 7 days a week





# COMMUNICATION THE QSL WAY

## David Shepherdson with more news about QSL clubs and QSLers

**G**reetings once again to one and all! Now then, I've so much to get through yet again, I'll get right down to it by starting off with the Mike Whisky Kilo DX Club as I promised I would last month. This one is in Newcastle, Staffs, has been going for some two years now and has a regular meeting once a month. President Mike says that any club within a 20-mile radius who fancies meeting or visiting on a return basis will be made most welcome and to get in touch with him at PO Box 279.

Some names now, starting with Fred (*Gardener Fred*) of Southampton. Fred's some 84 years young and is housebound so his hobby is using the ol' CB and collecting QSL cards. He has some 1,400 cards from many countries. As he says, it's a great way of bringing friends together from all over the world. For youngsters thinking about starting QSLing and who want a bit of financial help from your parents towards the cost of printing and postage and so on, you could always try the "It'll help me with my geography" gambit! Mind you, writing this lot each month helps me with my spelling as well!

Digging back into the pile, I've come across a super POMA card from Paul (*The Mongoose*) which brought a smile to my face (thought it was Dirty Harry who said that). From Halewood in Liverpool comes an Ensign card from Brian (*Strongbow*), and I've had a letter from Ensign and if I can find it again, I'll return to that later on! A change of address here from Christine (*Highway Girl*) who has dropped me a line and asked me to pass it on. Another Ensign card here from Les (*Papillon*) of Dudley who says "Happiness is a QSL", and the last names for just now are Rose and Bill (*Legion Lady and Rifleman*) of Clwyd who have dropped me several lines to let me know that they do a similar service to Ann MacArthur up there in the Shetlands. That is, they also collect

your used stamps and old Christmas cards for various charities. As you may be able to guess from Rose's handle, her favourite is the Royal British Legion.

Right, some snippets on a few different clubs coming up now. First up is a new one called the "13-11" Club whose main interests are 13 to 11 metre short wave, any mode. The club is willing to help and advise anyone who is new to the shortwave bands, either from CB or as a first time radio user. There is no club fee, all that they ask for is a SASE (Self Addressed Stamped Envelope), which should always be sent when writing to any club. After all, if the club in question has closed down, then all you are out is the cost of postage, whereas if you had sent money and did not put a return address on your envelope, then you stand a good chance of losing your brass! Anyway, the 13-11 Club is a world-wide club based in Bristol and is open to any listener who wishes to join. There is also a club QSL card in the pipeline, again for listeners.

From Bordon in Hants, I've a letter from Andy (*Stingray*) who reminds of his club, but before anyone sends off to join it, it is not a QSL club, but a group of local CBers who got together to share the cost of a PO Box and printing, and this is one of the reasons why Andy wrote. He says that he has had very good service from J S Coates of Leeds and would like to recommend him as they found him to be very quick and reliable. Unfortunately, Andy forgot to let me know his address! The cards are very well printed and on good quality card. If you fancy any of these, then you'll have to drop Andy a line at PO Box 13 and ask him for the address.

From Bob (*Roto Power*), with yet another Ensign (they're taking over!) comes a request for a mention for the Kilo Papa QSL Bureau. To join, all that is required is for you to send up to 20 QSL cards plus a SASE, with the correct value of stamp on (that is, if you put an 18p stamp on yours, put the same on the return one too!) but do

watch the weight; the majority of clubs and QSLers will *not* accept post with postage due! The Kilo Papa now has extras available like stickers at 50p per 100 and rosters for £1 etc. (PO's/cheques made out to the club please.)

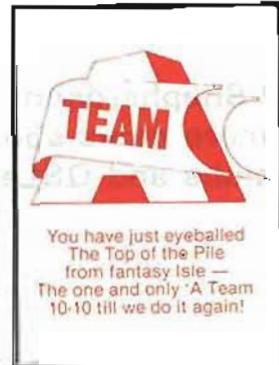
The other month, I said that I didn't get too much from overseas these days. Well, just to prove me wrong, I've a couple of packages from Europe! From my old friend Manolo who helps to run the Antequera QSL DX Swap Club of Spain, a letter and cards passing on the info that their local mountain, the Torcal, is to be, or perhaps now is, a national park so the club has had a pair of new club cards made (numbers 4 & 5) showing the mountain. Manolo was kind enough to enclose a view-card of the Torcal and I personally feel that number 4 has captured it the best. To join this very popular Spanish club costs £8 (cash) and 10 QSL cards for which you receive certificates, Spanish stamps, view cards and coins, unit number, mounted stamp, stickers, Q and 10 codes, club cards, roster (with updates from time to time), tourist info, exchange cards and invites and, the *piece-de-resistance*, one of the "Bull Fighter" posters!

May I just remind you here that, when sending money abroad, for your own sake, please do wrap it up well. It's best between your cards, by the way, and do ensure that your return address is clearly shown on the envelope with sufficient postage. Also, it's a very good idea to send it by registered post for added safety. This way, you stand a very good chance of getting it all back in case the post office cannot deliver to the club.

OK, staying in Europe, I've some info on the *only* DX group in North Greece, the Great Alexander (King of Macedonia). Well, I said earlier that QSLing is good for your geography; now it looks like being good for your history too! Seriously though, the costs for this club are five personal QSL cards and \$15 (US) so do check with

## QSL CLUB ADDRESSES:-

13-11 Club  
 Antequera QSL/DX  
 Great Alexander DX  
 Kilo Papa QSL Bureau  
 Mike Whisky Kilo DX  
 Sierra Charlie  
 Sierra Romeo  
 Dragonrider One C/o DR Club3  
 C/o 14 Eccleston House, Burton Hill, Bristol, Avon  
 PO Box 92, Antequera (Malaga), Spain.  
 PO Box 125, GR-59100, Veria, Greece.  
 38 Kingshurst Avenue, Glasgow, Scotland.  
 PO Box 279, Newcastle, Staffs.  
 PO Box 27, Southport, Lancs.  
 PO Box 3, Houghton-le-Spring, Tarn Villas, Cowpasture Rd, Ilkley, or Via the magazine.



your bank for the current exchange rate if you fancy this one, or indeed any which ask for non-UK sterling. Anyway, for your \$15 you are in line to receive your Golf Alpha Unit Number, ID card and certificate, 10 view cards, club cards, stickers, Greek sticker, rubber stamp, packet of postage stamps, club pen, key ring, tourist info, souvenir of Macedonia, a map of Macedonia and Greece, and quite a few other items as well as a gift for your XYL too! There's quite a lot of numbers in the address, so I'll repeat it here as well as in the list at the end, just in case: PO Box 125, GR-59100, Veria, Greece.

At last, I've found that letter from Ensign! It's also the first one I've had in almost two years since I started writing these pages, and hopefully it will not be the last (hint, hint)! Ensign Cards was started in 1981 as a hobby by Wendy (*Swallowtail*) and it soon took over the whole house! In May 1984, Martyn (*Pilsbury*) took over from Wendy and has gone from strength to strength since. It's always nice to hear about a firm such as this that is doing well these days; keep it up. The Ensign cards are not the cheapest around, but you expect to pay a little extra for cards of this quality! These are, of course, the gold, or hot foil type, which come in many colours. The prices start at around £18 per 100, but that is for the first 100, subsequent 100s cost less as the initial order includes the cost of the plate. To the best of my knowledge, Ensign was the first to offer these hot-foil type cards, but there are at least two others now. However, I see that Ensign now include all-plastic cards

## QSLER ADDRESSES:-

Fred (*Gardener Fred*)  
 Paul (*The Mongoose*)  
 Brian (*Strongbow*)  
 Christine (*Highway Girl*)  
 Les (*Pappilon*)  
 Rose & Bill (*Legion Lady*)  
 Andy (*Stingray*)  
 Bob (*Roto Power*)  
 John & June (*Desford Duck*)  
 Simon (*Missing Link*)  
 Eric (*Sparky*)  
 Bob (*The Claymore*)  
 Peter (*Big Daddy*)  
 Michael (*A-Team*)  
 RT 54, PO Box 125, Southampton.  
 SC 127, PO Box 27, Southport, Lancs.  
 8 Mirfield Close, Halewood, L'pool.  
 57 Grange Rd, Longford, Coventry, Wks.  
 8 Bridgnorth Road, Himley, Dudley, W Mid.  
 48 Alyn Road, Buckley, Clwyd.  
 PO Box 13, Bordon, Hants.  
 59 Heywood Court, Tenby, Dyfed, Wales.  
 59 Manor Road, Desford, Leics.  
 60c Church Rd, St Leonards-on-Sea, E Sussex.  
 AZ 12, PO Box 5, Stockport, Cheshire.  
 PO Box 27, Southport, Merseyside.  
 27 Cuthberts Ave, Blackhill, Consett, Co Durham.  
 PO Box 1, Tourist Info Centre, Promenade, Largs, Scotland.

## QSL SERVICE ADDRESSES:-

A & S Badges	103 Duddle Ln, Walton-le-Dale, Preston, Lancs.
Curries (Printers)	89 Derwent St, Blackhill, Consett, Co Durham.
Ensign (Printers)	58b Market St, Ashby-de-la-Zouch, Leics.
POMA (UK Rep)	Ray, PO Box 106, Canterbury, Kent.

When writing to any QSL club or service, always include return postage to help with a speedy reply, thanks.

and even a black-backed one in their range. For current prices and how to order, just drop them a line with SASE please. Also, some of their Christmas QSL cards have to be seen to be believed! The one I am thinking of here is a full-colour one from my old friends John and June (*Desford Duck and Snowflake*) of Desford, with a superb one showing a cartoon mallard disturbing snowflakes.

Right, anyone fancy any badges? If you do, how about this for an idea for either your club or as an extra for your QSL package? Andy and Steve (A&S Badges) of Preston will make up a 55mm circular badge for you to your own design, using black ink on any colour paper. They say that no order is too large or small and there is no charge for artwork. The prices start at 35p per badge, that's for the minimum quantity of 25, but the prices go down as the order goes up. For the actual prices and how to order, please drop them a line with a SASE for speedy reply. This firm comes highly recommended by Eric (*Sparky*) of Stockport who says he ordered some badges on a Wednesday, and received them on the Friday!

Right, a few more names, then a little club info and, to finish with, a little news on something I want to start next month. So, top of the pile is one from Simon (*Missing Link*) of East Sussex who has really personalised his Currie card, then from Southport comes Bob (*The Claymore*) with an excellent SC custom card. The 'SC' stands for Sierra Charlie which is the club run by Sue Rowlands and is an excellent club, both nationally and locally. From Peter (*Big Daddy*) comes a pile of Currie cards, both personal and of a club he recommends, this being the Sierra Romeo DX Club of Houghton-le-Spring. I've also had a bundle of cards from the A-Team! However, this A-Team is based at the Ayrshire & Clyde Coast Tourist Board in Largs, Scotland. Michael (*A-Team*) has let me know that the cards have been produced by the Board and are available for a SASE! There's plenty of room on them for all your details and they show the Board's logo in green and brown. Michael and Veronica (*Golden Delicious*) say that they are always pleased to see visiting breakers, so if you're in the area for your holidays later on this year, drop in and say hi!

Okay, a quick mention of that club info now and as I mentioned the Sierra

## QSL MEETINGS/EYEBALLS — NATIONAL

Cutty Sark POMA Meet at Cliftonville on 5th & 6th April 1986.  
Contact: Dave Bradshaw, 16 Bradenham Ave, Welling, Kent.  
GBQDC Big Eyeball No. 2 at Stanley Youth Centre on 27th April 1986.  
Contact: GBQDC Meet, PO Box 5, Consett, Co Durham.  
Tango Papa Eyeball at Southport's Floral Hall on 10th May 1986.  
Contact: TP Group (Eyeball), PO Box 13, Southport.



### CHARLIE KILO DX GROUP

P.O. Box 13,  
Bordon,  
Hampshire,  
England.  
GU35-0AJ



C.K.

— QSL WORLDWIDE —

Romeo & Sierra Charlie just now, but with no details, I'll try to rectify that here. To join the Sierra Romeo costs £5 plus five or more of your cards. For this amount, you can then look forward to receiving your SR number, ID card & certificate, (XYL No if required), exchange cards & invites, club QSLs, stamp & roster, welcome letter, tourist info etc. Extras available include the use of the club PO Box for £1.50, club cards at £1.50 per 50, or colour ones at £2.50 (per 50?). The club accepts only cash, not cheques, so wrap it up well!

Moving on to the Sierra Charlie of Southport now, membership of this club costs £3 (cash) and 10 personal QSL cards for which you get a package containing, at least, your SC number,

certificate, ID card, 15 club cards, invites, exchange cards etc. One thing though, the invite I have is pretty old and I cannot find an up-to-date one, so I do ask you to check the price of membership before you send off to join, as I think the package has been added to and the price takes this into account.

Well, almost out of room again, and I've so much info still to pass on, but I guess it will have to wait until next month (again). Next month I hope to start a new slot within these pages. It'll be an occasional look through some club's packages, not as a "Club of the Month" spot, but a browse through a few club packages I occasionally

Q.S.L. FROM  
STRONGBOW  
T.T.S.013 BRIAN

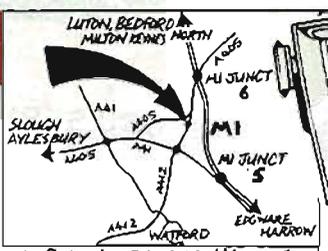


RAINY FOREST  
HALEWOOD



PETER LAW  
27 St. Cuthberts Avenue, Blackhill, Consett  
Co. Durham, DH8 0LS, England, U.K.

receive. Anyway, that's for another time, so I'll close down now and just add if you want a mention here, drop me a line and I'll see what I can squeeze in. If you want a plug for your club or for a forthcoming event, please send me full details, but please don't expect it to appear in a week or so. And, if you want a reply, please don't forget some return postage. Cheers for now, take care!



AS ONE OF THE UK'S OLDEST ESTABLISHED CB SPECIALISTS (TRADING SINCE 1979) WE HAVE THE WIDEST RANGE OF CB'S AND ACCESSORIES IN THE COUNTRY ALL MAIL ORDER ITEMS ARE CHECKED & TESTED BEFORE DESPATCH AND FULLY GUARANTEED.

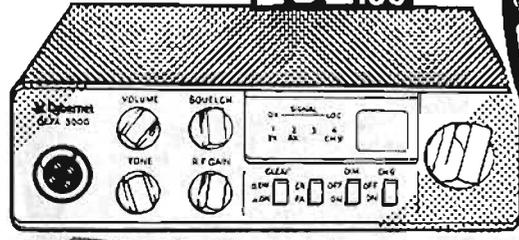
Off Junction 6 M1, 867 St. Albans Road, Garston, Watford, Herts. WD2 6LH  
 Tel: (0923) 661673

We are open Monday to Saturday 9 to 6.00. We are 1 min. Junc 6 M1. Take A405 to Watford, left at Horseshoes crossroads and we're 100 yards on the right - no parking problems or yellow lines.

**All Prices quoted Include Post & Packing.**

**BETA 3000 - BACK IN STOCK** Back in stock again, our special purchase this month is the well-known Cybernet top of the range unit with a host of features. Volume, squelch, tone control, RF gain, speech booster, PA facility, LED dimmer and Channel 9. A well proven, top quality unit.

**£82.00**



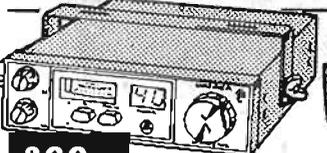
**NOW BACK IN STOCK!**  
**Maxcom 7E**  
**£69.95**  
 for limited period only.

ALL ECHO BOXES A SUPPLIED READY WIRED FOR YOUR ( - PLEASE QUOTE YOUR CB MAKE AND MODEL WHEN ORDERING)

**MAXCOM 7E**  
 A really versatile hand held 40 channel 4 watt unit, complete with its own carrying case it can work off either its own 12v power lead from a car cigar lighter or from standard or rechargeable 1.5v batteries (not supplied). Its telescopic antenna detaches to fit onto its own magnetic base for mobile use. Ideal for any form of outdoor activities, emergency mobile use and can be quickly and easily swapped between vehicles.



**MAXCOM 30E**  
**£69.95**  
 This top of the range radio features crystal filtering, RF & mike gain, PA facility, DX switch, tone switch and high SWR indicator. This radio is featured in 'Citizens Band' reference section. Excellent value and performance. **Maxcom 30E**  
 40Ch £69.95 160Ch £118.00



**£69.00** **UNIACE 100**

Generally accepted as being the best mobile radio for UK CB frequencies. The controls whilst basic provide all that is absolutely necessary for mobile use. The excellent rejection quality ensures minimal bleedover and de-sense. Features volume, squelch, power attenuator and PA facility. Highly recommended for those who must have the best.



**UNIACE 200**  
**£89.00**

Specifications as for the Uniace 100 but this unit has in addition variable mike and RF gain, bass/treble tone control and a dimmer facility. The Uniace brand is unsurpassed for quality and performance.

**Uniace 200**  
 40Ch £88.00 160Ch £138.00



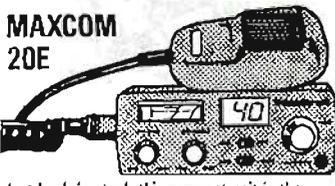
**UNIACE 300 BASE STATION**  
**£169.00**

Without a doubt the finest Base Station made for the UK market it features Volume, Squelch, Tone Control, PA facility 240 or 13.8 volt power feed, variable power and mike gain, but the crunch is in its excellent circuitry and filtering which kills bleedover and cross-mod without being deaf. **40Ch £169.00 160Ch £217.00**



**ONE HANDER**  
**AUDIOLINE 342**  
**£66.00**

The greatest security CB ever - you just unplug it and take it with you! Slim calculator-style hand unit has all the control features - LED Display, Up/Down Scan, Volume, Squelch, Hi-Low Power, Channel Lock-on Switch, Tone Control and Internal Speaker plus of course the usual excellent Uniden Circuitry which gives crisp clear copies. The compact power box which feeds the hand unit stays away out of sight under your seat or in the glove or dash. Beat the car thieves and still enjoy excellent CB performance. **Audioline 342**  
 40Ch £68.00 160Ch £126.00



**MAXCOM 20E**

Just back in stock this compact unit is the smallest available for the UK market, 4 1/2" wide 1 1/2" high and just 6" deep. Ideal where space is limited. Features volume, squelch, Hi-Low power and Ch. 9. **£45**

**WALKIE TALKIE ACCESSORIES**

**RUBBER DUCK** **£7.50**



SCREW ON TYPE FITS ALBA, DNT, HARVARD, MAXCOM, REALISTIC ETC.

**CHARGER** **£7.50**



Nicad charger plugs direct between mains and hand held, suitable for Alba, Harvard, Maxcom etc. State make and model when ordering.

**RECHARGABLE NICADS** **£1.25 each**

1.25 volts AA size **£1.25 each**

**MAXCOM 7E SPARES**

TELESCOPIC ANTENNA £6.25  
 MAGMOUNT FOR ANTENNAS £11.90  
 BATTERY CASE COMPLETE £13.50



**AUDIOLINE 340**

**£52.00**

This compact mobile Uniden Boarded Unit quite rightly enjoys a first class reputation. Features Volume, Squelch, Hi-Low Tone Control and variable power switch. Generally accepted as being one of the finest, most reliable units on the market with superior bleedover rejection the 340 has to be top of the list when choosing a mobile. **Audioline 340**  
 40Ch £52.00 160Ch £100.00

**SECOND HAND RADIOS**

We don't publish lists for our large range of serviced second hand radios as the turnover is so rapid on these units. As a general guideline a basic unit costs around £20, mid range £25-30 and top range units from £35-55. These are general price guides and in recent weeks we've had Rotels, Yorks, Harriers, Grandstand Bases, Jumbo, Belcom, Realistic H/Helds, 148's and many other assorted 'one-offs'. Please phone for your requirements, we always price and describe fairly and offer at least a one month warranty with most units. Remember, we also buy in or part exchange most radios.



over 90 different units in stock both new and secondhand.

£36.00

### MOBILE MICROPHONES

#### TURNER JM+2/U

One of the top quality CB power mikes, its 2 stage amplifier gives high gain and output level, suitable for both FM and SSB. Wiring and 7 volt battery included.

#### DM313P ROGER BLEEP POWER MIKE

Switchable as either standard replacement mike or power mike with roger bleep. Slider power control. 9v battery. **£14.00**

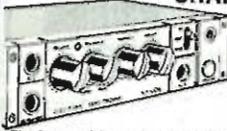
**ALL MOBILE MIKES ARE SUPPLIED READY WIRED AND WITH BATTERY IF APPLICABLE. PLEASE QUOTE YOUR CB MAKE AND MODEL WHEN ORDERING.**



#### DM510 POWER MIKE

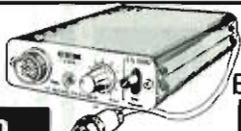
A moderately priced hand held dynamic microphone to boost up quiet modulating featuring a rotary power control. Comes ready wired for your CB and complete with 1.5v battery. **£10.50**

#### MELOS DE 1 ECHO CHAMBER



**£79.00**

The famous Melos box has all the controls for a complete range of sound effects. Features BBD echo system, mike volume echo repeat, delay time, direct/delay balance. 240v powered comes complete with microphone adaptor lead.



#### ES-880 ECHO BOX

The most powerful echo unit available! Top quality Japanese unit features include LED level indicator for maximum performance, earpiece so you can check your speech quality. If you want to upgrade your 'talk power' don't miss the ultimate DX unit! Supplied ready wired! Please quote your CB make and model when ordering. **£46.00**

### SOLDERING TOOLS AND ACCESSORIES

#### MULTI TESTER



**£7.95**

Basic Multi Meter to read AC/DC volts. DC current and resistance, complete with probes.

#### Mains Soldering Iron

Long life elements, 1.7m lead, cord grip & cable protector. **£4.50**

#### Mobile Soldering Iron

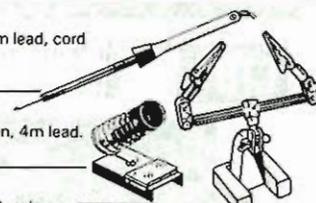
12 volt, 15w, mobile iron, 4m lead. **£4.95**

#### Soldering Iron Stand

Black metal base and cleaning sponge. **£3.50**

#### Solder Card

3 core resin 60% tin, 40% lead. 1.84m length. 75p



Helping Hands Heavy base with croc clips on variable rods. Useful soldering aid. **£3.50**

#### 13 PIECE TOOL KIT

1 x 5" Snip Nose Pliers with side cutters, 1 x 4 1/2" side cutters, 1 x 4 1/2" cutters, 2 x Allen Key Drivers 2/2.5mm, 2 x Phillips Drivers No. 0 and 1.6 Screwdrivers from 1 to 3.5mm. Plus Tommy Bar. Invaluable for wiring. **£8.95**

#### LEMM MINI GP DX

Standing just over 2m high the new GP DX comes with a stand off bracket for outside mounting or can freestand in a room or loft. Top loaded for high performance but compact enough for use where a discreet antenna is required. Performance equal to many bigger base station antennas and highly recommended. **£19.95**



**£19.95**

#### SIRTEL S2000

A superb new 1/2 wave from Sirtel, described as 'the best antenna we've ever used' by several local DX crews. Heavy gauge telescopic sections make this ideal for DX'ing on the hills. Eight mini radials give stronger signal and radiation pattern, plus static top hat fitting for cleaner, interference free reception. Wide band width ensures low SWR over 3MHz and super-heavy coil loading will handle over 2Kw! We believe this will out perform any omni-directional at present made. **£79.95**

**£79.95**

**GUARANTEED LOW SWR OVER 2MHz**

#### SIRTEL 5/8

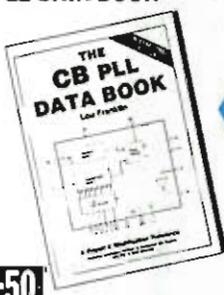
Made from highest quality heavy gauge aluminium, this is one of the best grade Antennas ever! Excellent DX performance, and a unique AM/FM preset mark makes this easy to tune home base one of the best value on the market. **£38.00**

**£38.00**



### CB BOOKS FROM CB CITY, U.S.A.

#### PLL DATA BOOK



**£6.50**

#### A COMPLETE, SIMPLIFIED GUIDE TO PLL CIRCUIT OPERATION!

Author Lou Franklin (THE 'SCREWDRIVER EXPERTS' GUIDE) unravels more mysteries of CB Radio electronics - the time focusing on the Phase Locked Loop or PLL. Frequency Synthesizer this is the heart of every modern CB circuit, and the area which until now has given headaches to beginner and expert alike.

In simple, non-technical language, you'll quickly learn to understand the workings of PLL synthesizer circuits. Whether you're a professional CB repairer or a casual hobbyist, there's something in these pages just for you.

#### FEATURES

- How they work, in detail, in easy-to-understand terms
- How to modify them for many more channels
- How the PLL circuit is used to generate FM transmission and the SSB 'side' tone
- How they provide the required signals for CB transmitter operation. Most common outputs illustrated in very simple block diagram form
- Pin-by-pin function description of nearly every PLL device ever used. Over 30 specific ICs including manufacturers cross-references
- Specific lists of every known CB model using a particular PLL circuit

This top new International Edition covers all the most popular classic PLL circuits. Plus all the latest state-of-the-art devices used for CB synthesizers throughout the world. Required reading for every serious CB operator!

#### SCREWDRIVERS GUIDE



**£6.50**

Buy BOTH these two for £12

#### FINALLY, A "BIG DUMMY'S" MANUAL OF CB RADIO REPAIR!

Written in plain English, this unusual book teaches the average person how to recognize and repair many of the most common CB radio problems, and how to get the best performance from his rig. No special electronic knowledge or expensive test equipment is usually required. Using only common sense, logic, and some everyday tools and accessories, the reader is quickly guided to the problem area by simple, illustrated instructions. Emphasized throughout is the fact that the person doesn't have to know how complicated electrical equipment works to be able to fix it. Many of the greatest CB mysteries, such as antennas, are simply explained using everyday terms and analogies that anybody can understand. This latest edition also contains new sections to help the more advanced CB hobbyist modify his equipment for greater performance capabilities.

#### HIGHLIGHTS

- How to diagnose and repair the most common antenna SWR problems.
- How to wire any mike to any radio. Includes many common mike problems.
- How to peak out transmitters and receivers for greatest range.
- How to recognize the most common faulty parts. Find an inexpensive substitute part and replace it yourself!
- Universal tricks and methods for curing TVI and ignition noise problems.
- How to add audio channels to both crystal and IC rigs.
- How to make SSB transmitters side an FM/AM/FM rig.
- Simple AM to FM conversions.
- Specific power modulation adjustments for most popular models.
- Unique Troubleshooting Chart to quickly isolate a problem.

#### UNIDEN SERVICE MANUAL £6

20-page book includes PB100 chassis (COBRA 148GTL-DX, SUPERSTAR 300), PC399 (GRANT), and PB042 (JACKSON) in one complete book. Also applicable to Blaster-8/8 DX export, and American AB-144 type chassis. Written by Lou Franklin, this is the only service manual in existence. Complete specs, voltage measurements, stage gain measurements, theory including detailed PLL description, complete alignment instructions and layouts, block diagram. Special addition describes modifications and improvements for each chassis. Large 11" x 17" schematics for each chassis.

#### CYBERNET SERVICE MANUAL £6

24-page book includes PC24A0015, PT8M12044K/PT8M13144X, PT8M13244X, PT8M12104K Models: Cobra GTL150, 148GTL-DX (Jake), Colt 320FM, 320DX, 1200DX, 1600DX, 2000DX, 2420, Excaltor, Falcon 2000, Ham International Concordia II, Concordia III, Jumbo III, Multitone III, MyGon 2795, 2795DX, 8795 (W), Intek 1200FM, Lafayette 1800, 2400, H82004RS, Multiton 7001 export, MongOOSE 2000, Noto 2000, Pacific 160, Parimar 2400, 5000, Starfire DX, Superstar 2000, 2200, Thunder 2000, Tristar 747, 777, 781. Written by Lou Franklin, this is the only service manual available for these radios. Complete specs, voltage measurements, theory, PLL sheets, alignment instructions and layout, block diagram. Large 11" x 17" schematics of each chassis.

Buy all FOUR of these for £20 SAVE £5

Buy BOTH these two for £11

### OTHER CB TITLES

#### BIG DUMMYS GUIDE TO BRITISH CB

157 pages, good basic starter book includes all you need to know about getting on the air, DXing, basic repairs and lingo. **£2.25**

#### CBers HANDY MANUAL OF BASE STATIONS

USA edition on running home base with good sections on antenna construction and use, 94 pages. **£1.75**

#### CBers HANDY MANUAL OF SSB

Good guide to SSB use, how it works, how to operate, USA edition, 80 pages. **£1.75**

#### CB MADE EASY

Good UK introductory handbook on using and fitting CB, codes and language, basic trouble-shooting, Home Office regs., 64 pages. **£1.25**

#### AUTO-SQUELCH

Cuts out all FM 'White Noise', fitted easily by competent technicians, complete with full wiring instructions. State CB make & model when ordering. **£12.95**



#### CBers BIBLE

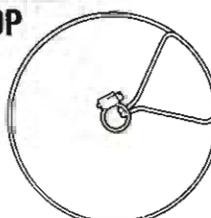
Excellent UK publication covers CB history, rig selection, antennas, mikes, TVI, soldering, morse, 10 and Q codes, reading schematics CB club section and SSB, 330 pages, good value. **£2.50**

#### PICTORIAL GUIDE TO CB RADIO INSTALLATION AND REPAIR

Well illustrated, covers fitting, home brew aerials and some basic repairs and servicing. 256 pages. **£2.25**

#### HALO LOOP

Improves antenna signal by making radiator pattern more parallel to the ground. **£4.50**



Turn over for more

## HEADPHONES

### ALTAI MONO-STEREO HEADPHONES

£8.95



Good quality 'phones with padded earpieces and headband. Earpieces have a useful volume control on each side and a mono stereo switch. Fitted with a large base station type 6.35mm jack but supplied with the more common 3.5mm adaptor so you can use for CB and Hi-Fi without chopping off plugs!



### MINI HEAD PHONES

£4.50

Lightweight 'walk man' type with sponge earpiece, state if required with Stereo radio or Mono CB Plug.

## EXTENSION SPEAKERS

### RAMA NOISE FILTER SPEAKER



£6.95

Another good quality speaker with adjustable bracket and bass/treble filter switch.

### RAMA MINI SPEAKER



£6.50

Excellent miniature speaker with adjustable holder — measures just over 2" radius! Highly recommended.

## AKD FILTERS

GUARANTEED TO WORK OR YOUR MONEY BACK



High grade, professional quality, as supplied to Telecom etc.

**BRAID BREAKER** £7.50

for general TV interference

**HIGH PASS FILTERS** £7.95

Commercial quality especially for TV & VCRs.

**NOTCH FILTER** Tunable £7.95

so best rejection can be achieved.

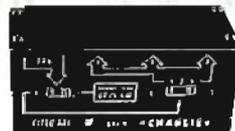
### SIREN-AMPLIFIER (12 VOLT)

£26.00



Combined PA and Siren supplied complete with PA Horn. 5 watt amp has built in mike and provision for plug-in mike. Five speed siren plays five different sounds.

### 3 WAY SWITCHER WITH DUMMY LOAD

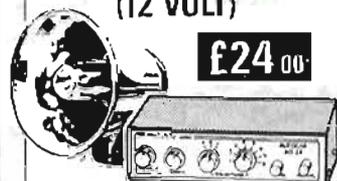


£12.50

BRL6 Charlie. Will handle upto 500W, FM input to switch upto 3 antennas plus 5 watt dummy load selector.

### ELECTRONIC MUSIC HORN (12 VOLT)

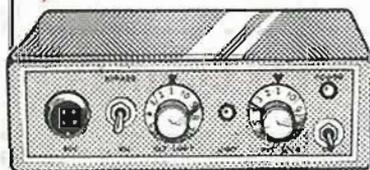
£24.00



Plays 24 tunes with last/slow play selector. Also allows individual or continuous selection of songs complete with power-control unit, fixing brackets and 5 watt PA Horn (unit works independently of CB radio.)

## SPEECH PROCESSOR

**New!**



REPRO SP-1001 £38.00

It's always nice to offer a British made CB product and it's even better when the unit works as well on FM as this does. Specifically designed for the UK market by Repro. Its "Speech Power" is devastating. With the continued absence of Zenith from the British market this is really the one to go for and we reckon it's every bit as good. Please state radio make and model when ordering.

### COLT PC-5 POWER REDUCER

£19.95



Features 5 stage power switch giving 5, 10, 20, 50, 100% power output. Run in line between CB and linear gives you 5 power output settings! Requires 12 volt power source. Takes up to 10 watts CB output. Meter indicates output power.

### BREMI MATCHER BRL 15

£10.50

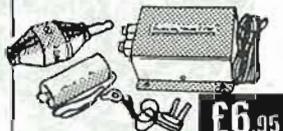


This good quality unit is useful for safeguarding high SWR problems and has a power handling capacity of 100 watts.



110 Junction 6 M1, 857 St. Albans Road, Garston, Watford, Herts. WD15 7JF  
Tel: (0923) 661673

### NFS-1000 NOISE FILTER KIT

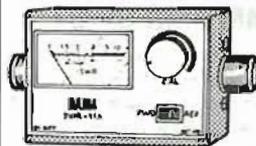


£6.95

Designed to eliminate interference from Ignition, Alternator, Generator and other accessories includes heavy duty dual line filter. A very effective system.

## TEST METERS

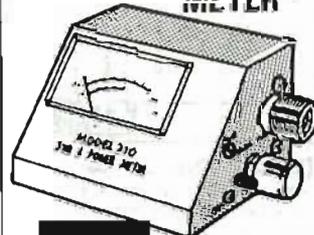
### FS-2



£8.50

Basic SWR meter made to good specification up to 50MHz.

### SWR 310 SWR-POWER METER



£10.50

Gives SWR up to 50MHz and measures power up to 10 watts.

## CONNECTORS

### NC 515

4 Pin Mike Chassis Mounting Plug. CP-FPMP NC 515 95p

Also available NC 517 15 Pin Mike Chassis mount order.

NC 517 95p

And 5 Pin (Dis) Chassis Socket.

65p

### 3.5mm ADAPTOR (NC 562)



Adapts PL259 to 3.5mm. Phono Jack Plug. £1.25

Also available as PL to RCA Phono type Plug. £1.25

### SO 239



95p

Chassis Mounting Socket

### QUICK BLOW FUSES

80p per 100

Available in packs of 5. Standard fuse is 32mm. Some radios use a shorter 20mm.

Available as 20mm, 2.5 amp, 32mm 2.5 amp or 32mm, 5 amp (for SSB).

## SIDE SCREWS

Replacement side screws to fit most radios. State CB make and model £1.25 per pair



### NC 566

£1.65p

Sighting arrestor — A must for any home base!



### NC-558



£1.40

Right Angle Connector for PL 259.

### 4 PIN EXTENSION LEAD



£4.95

Complete lead with 4 Pin Plug and Socket.

### NC-594

£1.40

4 Pin right angle Mike Socket.



£48.00

**AUTOMATIC ANTENNA ROTATOR**

Suitable for most light and medium weight beams. 360° drive unit and control box. Comes complete with well illustrated instruction sheet. A good quality unit at a special budget price.

WE ALSO STOCK, HIRSCHMANN, SKYKING ETC. - PHONE FOR PRICE DETAILS

**CB AND TRUCKING MUSIC ON CASSETTE**

£2.50 each

**Me and Old C.B.**

10 Super Trucking Hits

- Side 1
1. Me and Old C.B.
  2. Looking at the World through a Windshield
  3. C.B. Savage
  4. That's Truck Driving
  5. Roll on 18 Wheeler

- Side 2
6. Wolf Creek Pass
  7. Girl on the Billboard
  8. Gimme 40 Acres
  9. Eighteen Wheels
  10. Ode to 10-33

**"Teddy Bear"**

10 Super Trucking Hits

- Side 1
1. Teddy Bear
  2. Freightliner Fever
  3. Truck Drivin' Son of a Gun
  4. Phantom 309
  5. Truck Driving Man

- Side 2
6. Ciddy Up Go
  7. Truck Driver's Prayer
  8. Six Days on the Road
  9. Moving On
  10. Little Joe

**CONVOY!**

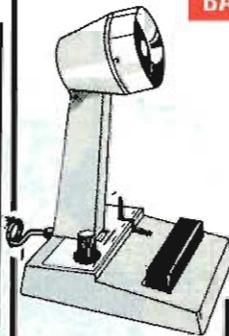
10 Super Trucking Hits

- Side 1
1. Convoy
  2. The Silverton
  3. Classified
  4. Mean Bear
  5. Truck Driving Queen

- Side 2
6. There won't be no Country Music
  7. Crispy Critters
  8. Truckin' Man Type Motel
  9. Old Home Filler Up and Keep On Truckin' Cafe
  10. Rubber Duck

**BASE STATION MICS.**

ALL BASE STATION MICROPHONES ARE SUPPLIED WITH BATTERIES AND READY WIRED (PLEASE QUOTE YOUR CB MAKE AND MODEL WHEN ORDERING)



**AL4200 DESK MIKE**  
£42.50

The famous 4200 type desk mike is ideal for both FM and SSB use and is specially designed for high modulation capability. Features include rugged die cast body, built in speech compression amplifier, variable amplifier gain control and lock on PTT facility.

**TURNER EXPANDER 500**

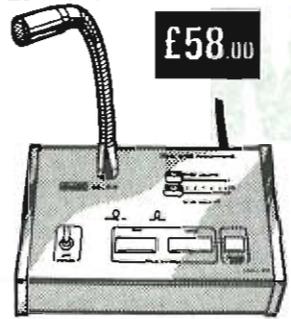


£62.00

One of the great base mikes! Featuring volume and tone controls on a slider scale. Meter gives audio reading and battery condition. Special limiter circuit prevents distortion and overmod. Especially recommended for AM-SSB (USA made)

**EB-2010 ECHO POWER**

£58.00



Gooseneck Echo and power mike with manual roger bleep. Slider controls for echo and power volume. LED indicators for power and standby. Dense board gives excellent sharp audio and makes this the top echo-power base mike.

**TEE SHIRTS & SWEAT SHIRTS**

TEE SHIRTS - Adult Sizes - S-M-L-XL-XXL - Black, White, Navy or Red £4.50.  
CHILDRENS TEES - Sizes 20-32 - White or Navy £3.95  
TOP QUALITY SWEATSHIRTS - Sizes S-M-L-XL - Black, Grey, Navy or Red £9.95  
XXL SWEATSHIRTS - Grey or Navy £10.95  
CHILDRENS SWEATSHIRTS - Sizes 20-32 - Grey or Navy £7.50

Please give chest size when ordering

ALL TEES AND SWEATS ARE TOP QUALITY EEC OR USA MANUFACTURE. 50% COTTON, 50% ACRYLIC AND PRE-SHRUNK



A2 Cobra



A11 Great Lovers



A18 UK Breaker



A8 Break Dammit



A21 Up Yours



A28 Louses It Up



A30 Working Order



A40 Stallion



A48 No Machine



A62 Pain In the Ass



23 Admit It



A12 Firestik



A47 Better Bodies



88 Old Fords



64 Rether Be Blown



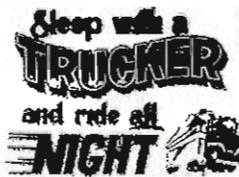
72 Get Trucked



22 Bth Day



A38 Rebel



25 Sleep with a Trucker

SKIP TALKIN' EYEBALLIN' TREF SHAGGY MODULATING CHAN DAMBEN HAMMETHUSAS HIL RUCKER DEN TEEP BERRY TOLA BUBBLY SMOKE HAVIN' SALLY FASTER MUTE VANCE



A3 Skip Talkin'

**MAIL ORDER**

To: TRUCK KING, Dept. CB2  
867 ST. ALBANS ROAD, GARSTON, WATFORD, HERTS.

Enquiries/VISA/ACCESS orders phone 0923-661673.

All prices quoted include post & packing. Overseas orders add 20% (£ Sterling only please)

QTY	ITEM	£

Name \_\_\_\_\_ I enclose Cheque/P.O. for £ \_\_\_\_\_ payable to Truck King

Address \_\_\_\_\_

PLEASE USE A SEPERATE SHEET OF PAPER IF YOU NEED MORE ROOM OR DO NOT WISH TO CUT YOUR MAGAZINE.

wish to pay by ACCESS  VISA  AMEX  (Tick) Card No. \_\_\_\_\_

ACCESS/VISA orders phone 0923 661673

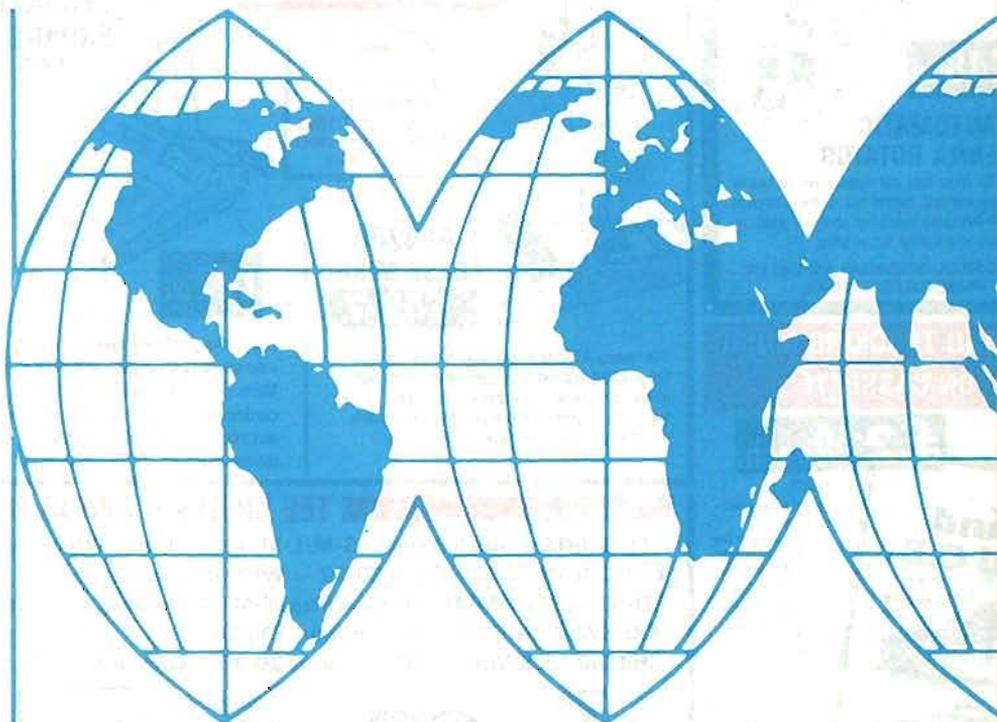
OUR NEW 1986 CB AND TRUCKING CATALOGUE FEATURES AND ILLUSTRATES 300 CB ITEMS. THE UK'S MOST COMPREHENSIVE EVER LISTING. ALL REGULAR STOCK LINES PLUS OUR FULL RANGE OF TRUCKING STOCK - DISCOUNT VOUCHERS WORTH UPTO £10.00 INCLUDED. TO GET YOUR COPY NOW SEND £1.00 CHEQUE/P.O. - DON'T MISS OUT



**M**y recent article on the differing standards of CB radio which currently exist throughout Europe prompted me to wonder exactly what the proposed change to a common international standard might mean in practice. Here, at *Citizens' Band*, undoubtedly the first thing we shall notice is a steep reduction in our weekly postbag since, at the moment, never a week goes by without we receive an assortment of requests for information on whether CB is legal in various countries, just about everywhere from Bournemouth to Borneo. To tell the truth, in many cases we simply do not know. Telephone calls to various foreign embassies have met with widely varying responses, ranging from positive, through non-committal, to downright bemused and we all got a laugh when the representative of one Middle-Eastern state assured me that all religions were welcome in his country. But what will the real effect be?

Before discussing the possible changes which the new regulations will bring about, we first have to realise that the recommendations of CEPT proposal TR20.02 are only recommendations and nothing more. They do not constitute a directive and so, are not binding upon any of the member states of CEPT who may, if they so wish, elect to ignore them completely. This is the very nub of the matter, since it only requires just one or two major states to refuse to implement the proposals and the whole idea could fall flat on its face.

The idea of a common standard throughout the Western world is, in principle, a good one. It should remove the difficulties commonly faced by breakers wishing to travel between countries, with a rig in their car or truck, many of which have, in the past, led to long delays, heated altercations with Customs officials and, in a handful of cases, considerable embarrassment. It should also remove the present uncertainty about whether, having reached foreign shores, you will be able to communicate with the natives. Provided, as we have already said, it is universally adopted — and this is by no means a foregone conclusion. Although Eire already uses the frequencies, mode of transmission and power level recommended by CEPT and Britain, West Germany and a few other countries are committed to following suit, France might prove to be a problem, since its present CB service is far more broadly based and Switzerland, which has always been opposed to any increase in the number of permitted channels, might also prove problematical, for precisely opposite reasons and no-one yet knows the likely stance of some of the Scandinavian countries. In the event that the proposals are adopted by the majority and ignored by the few, it is not at all difficult to envisage a situation in which you might happily travel through five of six borders, only to find yourself a long way from home and trying to



# A UNITED EUROPE ?

Keith Townsend ponders over the implications of the CEPT frequencies due to be introduced next year

argue with some uniformed bureaucrat in a language you cannot even understand. (Which of us has not used that ploy to avoid a speeding ticket on some Autobahn, or Route Nationale?)

What of the technical standards suggested by TR20.02? With the notable exception of the reversion to frequencies originating in post-war USA and beloved of pre-legalisation British breakers, they are not so different from what we already have. Most of us prefer to leave considerations of a highly technical nature to equipment manufacturers and will not even notice the tightening up of some standards regarding such things as spurious emissions and harmonic radiation. Likewise, the slight matter of the likely effects on other services can safely be left to the regulating authorities, who have, no doubt, gone through some horrendously complex mathematical equations in order to ensure the feasibility of the change, before agreeing to it. What is more important

to the average breaker is the basic question: "Will it work?"

Despite its obvious drawbacks, an FM-based service has been proven viable. To be honest, most of the problems which we all know to beset the present service are the result not of its technical shortcomings but of the way in which we use it. For example, whilst there is no immediate cure for the present overcrowding of channels, it would be significantly reduced by a properly enforced prohibition on the use of "burners" and the simple expedient, adopted by the majority, of enquiring whether a channel was in use before beginning transmission. Some degree of proper control over the drain-brain brigade would also have distinct advantages in this respect. Nevertheless, there are still a considerable number who favour the licensing of other modes of transmission. There is truth in the argument that the use of single sideband would reduce the congestion, since an SSB



signal occupies less bandwidth, though the mere fact that SSB tends to remain intelligible over greater distances does, to some extent, negate this point and many an opponent of SSB has a vivid mental picture of even more overcrowding, as a growing number of SSB signals merge over greater distances. Regardless of these considerations, the simple fact that television receivers rely entirely on SSB makes them particularly susceptible to interference from other SSB transmissions and this, together with the lamentable standards set for the rejection of unwanted signals in modern TV receivers, ensures continuing political opposition to such a change.

Antenna standards will remain another bone of contention. We might have hoped that the likelihood of European unity would allow British breakers the free use of many types of antennae currently frowned upon but this seems most unlikely. Although detailing very specific standards for both CB transmitters and receivers, the CEPT recommendation states quite clearly that member states will retain the right to make their own internal regulations on matters such as antenna construction and licence conditions so, unless we are graced with a major revision of such conditions, we appear to be stuck, for the foreseeable future, with a set of restrictions which fail to take account of the vast differences in terrain which can occur over even the shortest distances and a power to height ratio so arbitrary as to be impractical.

There is, however, another possible drawback which appears to have been overlooked by those pre-legislation campaigners, myself included, who thought that, since 27MHz was, after all that argument, to be the standard, we should use the "FCC" frequencies. For the moment, there is precious little

real skip about, with the result that we hear comparatively little of the CB activity generated by our European neighbours. This will not always be the case. The sunspot cycle is destined to rise again within the next three or four years and those of you for whom DX has, until now, been little more than a dream, will be amazed at just how easy it will become to copy stations which, until now, you have considered impossible. I kid you not when I point out that during the late seventies it was common to hear the States coming in anywhere between S5 and S9. "Great!", I hear many of you shout, but will you feel the same way when you cannot work your friends because the band is packed solid with high-powered Italian stations? Please do not expect CEPT proposals, or anything else for that matter, to make one iota of difference to the way Italian CB is operated for, even if the Italian government were to espouse the new system, it would take a grade one optimist to believe that they would be any more effective in enforcing it than they have been, to date, with their present system. Unless a uniform service is accompanied by uniform standards of regulation enforcement we may be on a loser from the outset.

Despite these very real concerns, the outlook for a pan-European CB service is by no means all gloom and despondency. As we have already postulated, international travel should become very much easier and the economies of scale could well bring about significant improvements in the technical standard of rigs, as manufacturers are able to concentrate their production, rather than attempt to honour the vagaries of more than a dozen different specifications. Receiver selectivity and sensitivity might well be vastly improved by the increased ability of manufacturers to produce standard components and user choice should, within the broad framework of the technical specification, be considerably increased.

Of further benefit to us, here in Britain, is the allocation of 40 entirely new channels. In practice the change-over will, for many, mean little or nothing. The government's avowed intention to continue to permit the use of the existing, higher portion of the band removes the fear, expressed by many, that we might have to instantly scrap hundreds of pounds-worth of much loved and well used gear and affords us the enviable position of being legally able to transmit and receive on all 80 channels for at least the foreseeable future, though nothing has, as yet, been said about the possibility of a single rig incorporating both segments of the band. Neither can many of those with the knowledge see much practical alternative use for this higher portion of the band, which leaves us with the distinct possibility of a full 80-channel service for the rest of our days, though such a view might be hotly contested by many in authority.

There will, of course, be an added benefit for those whose major interest in CB is the ability to DX. No longer will it be necessary to use unlicensed

frequencies, simply because our frequency allocation isolates us from those whom they wish to contact. It is perfectly possible to DX on FM, given the right atmospheric conditions and a reasonably clear channel and, provided it is done with consideration for those trying something less ambitious, it should prove most rewarding. Given the 80-channel allocation, I wonder whether we might not give serious consideration to some form of band plan which would set part of the international allocation aside, purely for DX purposes, whilst leaving a segment in the upper half of the band for the exclusive use of those wishing to maintain short distance communication. Such a provision would work admirably, given a modicum of goodwill on all sides.

It occurs to me that channel numbering might cause a few initial problems. It seems easy, on the surface, to simply number the entire band consecutively but what of the much maligned breaking, emergency and truckers' channels? Are we to have two of each? Consecutive numbering has its advantages until you consider that not everyone will be in a position to, or indeed want to, avail themselves of the entire band right from the first and conventions, once established, have a habit of lingering.

Clearly, the adoption of any common international standard for CB radio brings a few problems in its wake but they should not prove insoluble. From where I sit, the advantages appear to far outweigh the disadvantages, provided that the changeover is treated responsibly, not only in this country but by the licensing authorities and the breakers of every member country. Its success depends entirely on the goodwill of all involved.

National administrations have managed to sink their differences over matters far more complex than the standardisation of a public radio service and, with a little co-operation, can agree with each other this time. Serious consideration should be given to a major degree of uniformity of licence conditions and there is a strong case to be made for the issue of reciprocal licences which, although they might cost each participating country some slight loss of revenue, would considerably eliminate "red tape".

Of course there will be continuing dissent among individuals over the right standard to adopt. The terms of TR20.02 will be hotly contested by the inhabitants of those countries which currently allow the use of either SSB or AM, or a higher level of power output but nothing is fixed forever and the proposals represent the first tangible step toward the popular dream of a single, worldwide CB network. The technology of radio communication is now advancing so rapidly that the further modifications which many would dearly love to see but which, for the moment, appear unattainable, might ultimately prove feasible, given a sound basis of multinational co-ordination. Pan-European CB radio is a very exciting prospect indeed!

# TAKING THE MIC

A good microphone can make all the difference to your TX. We take a look at what's available

**A**lthough separated from the transceiver proper, the microphone must be considered an integral part of the CB rig, and deserves special attention. How do they work? What types are there and what options are open to the user?

Well, the microphone is really the weak link in the rather sophisticated world of CB, and is certainly a vital element. It is a transducer, as too is the loudspeaker, transferring audio signals into electrical signals which the equipment is able to cope with. There are really two kinds of microphone in use on communications equipment — dynamic and ceramic, or crystal.

A dynamic microphone basically consists of an electrical coil which is able to move in a magnetic field. The coil is physically connected to a large diaphragm. When speech enters the microphone, the pressure against the diaphragm changes, inducing a changing current as it moves within the magnetic field. This signal is then passed to the voltage amplifier within the input circuit and eventually ends up as an RF signal at the antenna socket.

Ceramic, or crystal microphones, on the other hand, provide a higher voltage at their output than their dynamic counterparts. Their construction is often of a solid slab of material which is forced out of shape and creates a voltage. The diaphragm is connected to the slab which has a force applied to it as speech hits the diaphragm.

In walkie-talkie type units, the dynamic, or moving coil microphone, often also acts as the speaker. During reception, the electrical signals pass through the coil and set up a varying magnetic field around it. The interaction between this field and the one generated by the permanent magnet causes the speaker cone to move, producing soundwaves through the now speaker.

Some carbon microphones are in use; the older type of telephones employed carbon granule mouthpieces. They operated on a variable-resistance method and, instead of generating a voltage, a DC voltage is applied across

some granules of carbon. Any change in the resistance offered to the rest of the circuit by the carbon granules will affect the current through the carbon, as presented in Ohm's Law. There will also be an equivalent change through the associated transformer; this resulting change in resistance varies the current in accordance with the frequency and intensity of the soundwaves.

There are many variations to these basic principles incorporated into CB accessories. Power microphones are simply microphones with a built-in, add-on amplifier stage, with perhaps other controls for tone quality and output level. A very useful type of microphone to use in noisy environments, such as lorries or cars, is a noise-cancelling one. Noise-cancelling can be achieved by using two dynamic cartridges, separated but in the same direction so that, due to the phasing, the noise is eliminated from the signal because the speech is impressed on only one. Other types use a single dynamic cartridge so that noise is directed to the front and rear to give a total effect of no ambient noise.

Mounting microphones on the side of headsets is a very common practice, with often a single ear-piece employed as well. This means that, while mobile, the operator is free to drive using both hands. These 'boom' mics are readily available, although the correct type must be obtained to suit the rig.

Desk microphones are a useful asset when using a base station, and normally have a locking push-to-talk switch to leave both hands free, while chatting, for writing or even eating! Although expensive, these are useful and often produce good quality audio.

A gimmick type of microphone, which has dropped in popularity is the "echo mike" which included circuitry which introduced a controlled amount of feed-back, allowing the audio back into the amplification chain to produce an echo. This often made the speech unintelligible and many users replaced such equipment with more orthodox microphones. It was thought that echo increased the modulation, but this is more intelligently achieved by using a power microphone which will amplify the signal to 100 per cent mod.



The Telex Double Header — two mikes in one

Whatever type of microphone/s you use, it is essential to make sure that they are of a suitable impedance and rated so that they "match" the rig's input. They should also, of course, produce the correct amount of audio input level. The impedance may be between 30 Ohms (low) and several MegaOhms (high). Typically, CB microphones are 300-500 Ohms.

As with rigs, homebase microphones tend to be a bit more expensive than their mobile counterparts. Prices will vary from dealer to dealer, but you can expect to pay between £40 and £70 for a homebase mike and between £7.50 and £40 for a mobile.

The Sadelta range of mikes are well worth checking out. Their Bravo O base mike features two slider controls, one for modulation gain and the other for compression. It also has a 'talk-lock' switch for really chatty types! Slightly more upmarket is the Bravo 2 base mike. It has all the features of the Bravo O plus twin meters to monitor modulation gain and compression.

The Sadelta Echo Master features a fully adjustable echo, modulation gain slider and meter, plus the talk-lock switch. More recently introduced is the Echo Master Plus, which also features a dual-tone roger bleep, adjustable reverb and echo and an internal 9v battery.

With its rather futuristic design, the Turner Expander 500 Homebase mike is a very popular model. It features sliders for volume and tone, a modulation meter and battery level indicator, a PTT (push to talk) bar and locking lever.

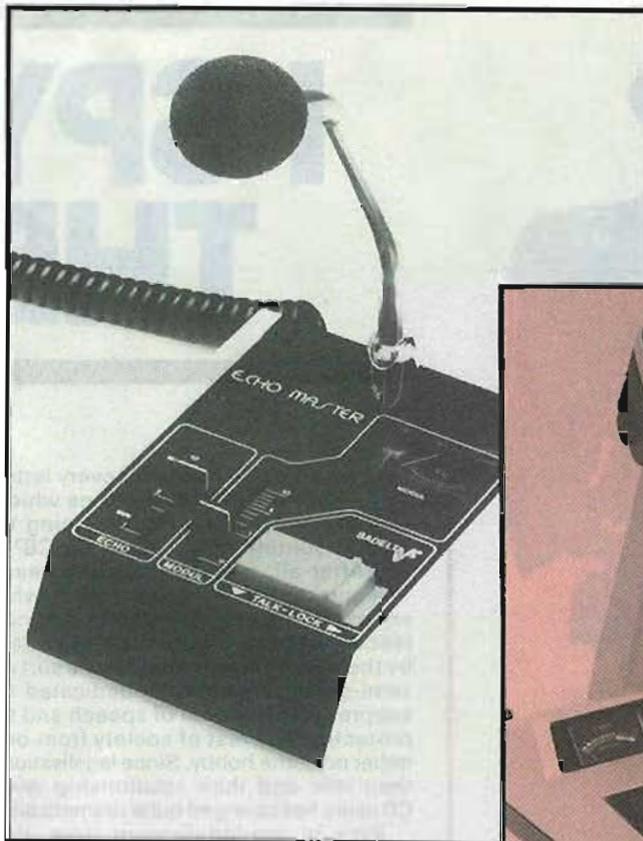
The well-known Ham International brand name appears on a number of base mikes, including the 232DX and the 232S. These can be well termed 'old favourites' and feature rotary volume control, the PTT bar and locking switch. Their 'big brother' is the Ham International Big Puncher, which includes facilities such as sliders for volume and tone, PTT bar (and locking lever) and modulation meter.

The Protel A-700 is a nice, powerful unit with a gooseneck mike (adjustable to any angle). It features an AM/SSB switch for tonal quality, level control and lockable PTT switch. For a few dollars more, the Protel AM-106 has the same features as the A-700 plus a mid-range mike and speech compression facility. The Protel A7000 goes a few steps further and includes a modulation meter plus a sophisticated-looking graphic equaliser.

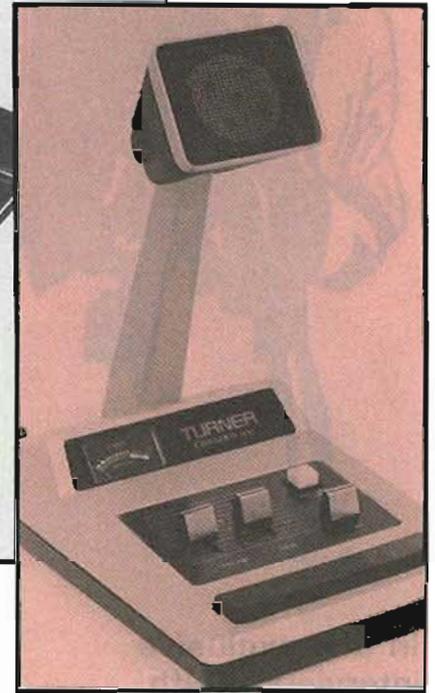
Among the excellent Zetagi range of products is their MB+5 base mike. It features rotary controls for volume and tone, modulation meter and PTT bar which locks sideways when required.

Representing good value for money is the Leson DT 258 Dynamic base mike. It is a basic gooseneck mike with a lockable PTT switch and is ideal for use when a dynamic, rather than an amplified, base mike is required. Again, from the Leson stable, comes the TW205AC base station microphone. It features variable volume control and lockable PTT bar.

A very nice unit worth looking at is



(Above) The popular Sadelta Echo Master



(Below) The futuristic Turner Expander 500

the EB-2010 echo power mike. The microphone is on a gooseneck and features a manual roger bleep. Slider controls are provided for echo and power volume and LED indicators for power and standby.

The Altai AL-4200 is specially designed for high modulation capability. It has a built-in speech compression amplifier, variable amplifier gain control and lock-on PTT facility. The AL-4200 comes supplied with a 9v battery.

For a touch of class, you could to worse than to check out the Astatic Silver Eagle. It is styled on the old 1930s radio mikes and is finished in chrome. There is a PTT on the base and a locking unit on the side. Although one of the more expensive base mikes, it still remains one of the most popular.

Moving on to mobile microphones now, straightforward replacement microphones come in all shapes and sizes, usually priced at under £10. Other mikes, however, have 'extras' like echo, roger bleeps etc. For instance, the popular Altai echo power mike houses a Densai board and features a slider power control and internal echo control.

The AO1 DM-106ALC power mike features an automatic level control which prevents overmodulation, while its 'younger brother', the DM-101A has a slider power control.

The Leson range of portable microphones includes the CH 233 pre-amplified mike with manual roger bleep and slider power control. A few pounds more will buy you the Leson CH 219,

which is a high quality ceramic mike with a two-transistor amplifier.

The Telex 73 Double Header is almost two mikes in one. This American-made mike is switchable from noise canceller for truck or high noise level background to standard power mike.

Altai mikes are a very popular line, in particular the DM313 which is switchable as either a standard replacement mike or a power mike with roger bleep. It also has a slider power control. The Altai DM315E is a power mike and features variable echo level.

The compression and pre-amplification circuits of the Sadelta HM20 produces powerful results with low background noise. The HM20 also features variable gain. A less expensive alternative is the HM30, which is lightweight, sensitive and pre-amplified.

With safety first in mind, the Zenith XZ4 has been produced. Specifically designed for the mobile breaker, the gooseneck microphone obviates the necessity for one hand to be permanently 'handicapped' and the PTT switch can be located in the gearstick knob. It is a 'one-touch' device, in that you simply push once to transmit and again to receive.

Another safety device comes in the form of the Sadelta LM20 Laryngo microphone, designed to eliminate the use of hands when transmitting. It is voice-activated (VOX) directly from the vocal cords, thus eliminating background noise normally associated with mobile modulations. The sensitivity, too, is adjustable.



In this exclusive interview, Keith Townsend talks to a Radio Investigation Officer about his work

# I SPY FOR THE DTI

I wish I had a penny for every letter addressed to this magazine which started "When are they going to do something to clean up CB?". After all, it is not so many years ago that these same "they" who are expected to come dashing to our rescue, were the "meanies", regarded by the entire CB community as a sort of semi-secret police force dedicated to suppressing freedom of speech and to protecting the rest of society from our rather noisome hobby. Since legalisation, their role and their relationship with CB users has changed quite dramatically.

Back in pre-legalisation days, the RIS, the dreaded "Busby", were a department of British Telecom, who acted as agents for the Home Office in matters of radio regulation and this led to many a problem, as the left hand repeatedly displayed considerable lack of understanding of the workings of the right. Recent changes have brought the RIS directly under the wing of the Department of Trade and Industry, who have, in turn, assumed responsibility from the Home Office for controlling who uses what part of the spectrum and how they use it. At the same time, the terms of the Telecommunications Act 1984 have considerably widened their powers to act to prevent illicit transmission. For instance, prior to this act they were not empowered to seize unlicensed equipment. Such an act required the presence of either a policeman or a Customs and Excise officer, acting upon a warrant issued by a magistrate. The Telecommunications Act changed things to the extent that an RIS officer can now seize equipment which he believes to have been used unlawfully, as evidence for a possible future prosecution, though he is obliged to apply to a court of law for its permanent forfeiture.

The most recent change, of course has been the introduction of a call-out fee for dealing with complaints of domestic reception. To find out what these changes have meant in practice, we went out and found ourselves a friendly Radio Investigation Officer and were both pleased and surprised at some of his views.

"Legal CB has made a tremendous difference to our job," he told us. "Broadly speaking, the job falls into two easily definable categories; advising the public on how to improve radio and television reception and enforcing the

terms of wireless telegraphy legislation. The two often overlap and, in the days before CB became legal, enforcement was often the only practical means of curing interference. Not only has legalisation dramatically reduced the number of reception complaints directly attributable to CB but it has also greatly improved our relationship with the majority of the CB community, as well as allowing us to return to our preferred policy of law enforcement. Although I feel that there will always be a certain distance between ourselves and CB users, as there is between the public and the members of any law enforcement agency, we have been able to develop working relationships with many of the well organised CB clubs, and I and other members of the RIS have visited these clubs, speaking on many aspects of radio communication. Of course we are obliged, wherever possible, to prevent illegal radio operation of all types and this continues to bring us into conflict with a small minority of CB users but there is a very good relationship between ourselves and the people who are trying to use CB properly."

## Understanding

Given the new understanding between officialdom and CB, we next asked about the standards which existed across the country and found our contact to be full of praise for the majority of breakers.

"Reception problems are not really caused by CB radios or, for that matter, any other form of transmitter. They owe more to the fact that television sets and other domestic entertainment devices are not designed and manufactured to sufficiently reject unwanted signals, and are commonly incorrectly installed".

On the subject of CB installation, we discovered a wide variety of standards and were told: "I have seen CB stations which have been set up to a very professional standard and the average station offers very little cause for complaint. On the other hand, there have been the odd few occasions when I felt obliged to advise operators to close down. This has usually been because the set-up was electrically unsafe and presented a very real danger to the operator himself and to anyone else who went into the room. We have



Pictured outside the headquarters of the DTI — a most unwelcome sight for many a naughty breaker

very few complaints about the technical quality of commercially available CB equipment. Power output levels, in the main, vary between two and six watts and the most common problem that I, personally, have encountered has been under-deviation. You would be amazed at the number of sets whose deviation has been set too low before they leave the factory. Some of the earlier models of power supply units left a lot to be desired in terms of safety but these have now largely disappeared from the market. Frequency stability in the majority of sets is excellent and it is a rare event to find a set which is appreciably off frequency.

"The most significant problem is that of spurious emissions, particularly harmonic radiation. Sets which are being operated in the proper manner, with normal power output, delivered to an antenna which meets the proper specification, are no problem. The real trouble occurs when you have a set connected to a linear amplifier, delivering power to a half-wave antenna. This condition creates a significant impedance mismatch between amplifier and antenna, which leads to the production of high levels of radiation on odd harmonics, or multiples, of the originating frequency and, since many of these harmonically related frequencies, particularly at VHF, are used by other services, serious disruption

can arise."

Asked whether the forthcoming introduction of new frequencies, as outlined by CEPT, would improve matters or not, our contact told us that careful research was carried out before the proposed change was agreed and any minor problems will have to be sorted out in the field.

## Enforcement

The next area we questioned was that uppermost in the mind of many a breaker. That of regulation enforcement. Many of you who have been on the air since licences were first issued and, in many cases, long before, have never met a Radio Investigation Officer, whilst others will remember only too well the aftermath of that knock on the door.

"CB operators who act within the terms of their licence, both as regards technical standards and operational procedure are very unlikely to be visited by the RIS," we were told. "Where we have received a complaint of interference our first step would be to visit the CB operator and carry out a station check to ensure that his equipment conformed to the specification and was being operated in accordance with the terms of the licence. Once

we were satisfied that this was the case we would begin to check on the standard of equipment suffering interference and perhaps recommend that the system and installation be checked by their dealer. Each RIS office now has a computer printout of all CB licences within the district and if monitoring shows up a station operating without a licence then they are likely to receive a visit. In short, anyone operating without a licence, or outside the terms of their licence, is far more likely to be visited by an RIO than someone who operates in a completely legal manner."

On the wider questions of enforcement, the RIS appears to feel some degree of embarrassment over the wide discrepancies in enforcement standards in the past and told us: "We are rapidly developing a more uniform enforcement policy towards all forms of radio throughout the country."

## Campaigns

They then referred to CB enforcement campaigns first mentioned by Industry Minister, John Butcher MP, in our recent interview.

"As part of this policy we undertook a number of campaigns against CB abuse in May. The areas covered

included Cardiff, Chester, Cumbria, Glasgow, Portsmouth, Southampton and Swindon. In all, we visited some 1200 households throughout these areas. Because enforcement had, in the past, been somewhat patchy, the majority of abuses were dealt with in the form of a warning to the effect that we were aware of offences being committed and that further action would follow if they did not put their house in order. We were looking at both licence evasion and abuse. Campaigns of a similar nature will continue indefinitely."

Asked what forms of abuse were being uncovered we were told: "We were looking at technical abuse, such as the use of power amplifiers and over-large antennae, as well as operational abuse, including the use of offensive and threatening language and the playing of music. We learned a great deal from these campaigns and the experience gained will help us to protect the genuine CB user from such abuses in the future. We have been able to clear up the majority of cases of interference in the areas covered and one interesting sidelight has been the fact that, whilst licence holding throughout the country has declined, in the campaign areas it has gone up by seven per cent".

I asked what powers the RIS possessed beyond the Wireless Telegraphy and Telecommunications Acts. I was specifically interested in the point which has been made to me by many CB users, that the Public Order Acts might be used against some of the worst cases of persistent abuse and was told: "We can only operate within the framework of those Acts with which we are directly concerned. For the Public Order Acts to be invoked would require action on the part of the police and we would ask them to step in if we felt that there was a case for doing so. Of course Customs and Excise will continue to take appropriate action in cases of illegally imported CB equipment."

We were very interested in his next comment: "We have been asked, because of the great concern on the part of most CB users about the use of offensive language, to point out to magistrates those cases where this has been a feature of the abuse and this has, almost invariably, led to increased penalties, including the confiscation of equipment, often running into hundreds of pounds. There have even been two instances during 1985 in which suspended prison sentences were handed out, and sentences like this represent a very strong deterrent to those who use CB as a means of being offensive to others. To put this into perspective, perhaps I should explain that during the first eight months of 1985, which is the most recent period for which figures are available, we successfully prosecuted 714 offenders, of whom 359 were convicted of using either AM or SSB radios, whilst the remaining 355 were either using FM radios without a licence, or were acting outside the terms of their licence. In all, these convictions resulted in the forfeiture of some 462 radios, many of

which were, in a technical sense, legal."

Asked about the apparent lack of any consistent policy on the enforcement of antenna regulations, the official said: "I agree that this is one area which, in the past, has been rather patchy and that what has, hitherto, been accepted in one area has been acted against in another but this anomaly should now be short-lived, since this is one specific area we are looking at. Many interference problems result directly from the use of larger antennae than the licence conditions permit and, before long, they will have to be re-examined."

We then went on to discuss the likelihood of any problems arising from the use of 934MHz CB and were told: "The use of 934MHz in my own area is now quite widespread and its growth is encouraging. From the reports which we have received, by far the majority of users are well satisfied with the results obtainable using legal power levels, though we are currently receiving complaints that UHF CB is being affected by cellular radio, which occupies a nearby frequency band and the problem is being investigated. I have, personally, only seen a couple of these radios, but have been impressed with their quality."

To create a comparison between enforcement of CB regulations and those of other services, I asked whether

**"Many interference problems result directly from the use of larger antennae than the licence conditions permit . . ."**

the policing of amateur radio received very much attention.

"We do, of course, take action against abuse within the amateur bands," I was told, "but since there are far fewer amateurs than CB users, far less of our time is taken up in this way. Abuse of VHF repeaters is a constant problem and one where we take action whenever possible but, like CB, amateur radio is an unprotected service and, as such, has a very low priority. Our major concerns are, firstly, to protect the integrity of those services such as the fire, ambulance and coastguard services, since the safety of life may easily be affected by any disruption of their communications and, secondly, to protect those services relied upon by business users, and it is to these areas that we devote most of our energies. There are, of course, a few occasions when stray CB or amateur signals cause interference in these areas and this has, in the past, often been the direct reason for action against specific operators."

He continued in more general terms:

"The radio spectrum is a finite resource with a growing number of users. To ensure that everyone gets a fair crack of the whip, it must be properly regulated. If anyone were allowed to transmit on any frequency, in any manner he chose, the inevitable result would be that nobody would be able to use radio effectively. This is why licences, setting out the terms and conditions under which transmitters may be used, are issued for a number of different types of service. Only if all radio users, regardless of the type of service they are using, comply with these conditions, can everyone get the best out of their radios. It has not been possible to identify any significant area within the spectrum which is not either currently in use, or allocated for future use. Even those frequencies which are currently being cleared of their present users have already been allocated for future use by other services. This is why it is vital that no-one should use a frequency for which they are not licensed. Even though a frequency may appear to the listener to be clear, it may be occupied by a low power device which, although inaudible, may be severely disrupted by an illicit transmission."

## Complexity

"It is the sheer complexity of radio communications that makes our job so interesting. A typical morning can include a couple of hours spent in court, either making application for a warrant to search premises from where we believe unlicensed transmissions to originate, or giving evidence in cases already before the magistrates, followed by a visit to someone suffering interference and attempting to trace the source. All too often these days this proves to be a CB station which is legal but for the fact that a very large antenna is in use. The normal procedure in such a case would be to carry out a check of the station and to inform the operator, both verbally and in written form, that he may not use the equipment until a legal antenna has been fitted."

Remembering the many tales I have heard from truckers about the "wheel tappers and shunters", I asked whether the RIS still take part in roadside checks.

"Yes," came the immediate answer, "It never ceases to amaze me, just how many CB related offences are uncovered in this way. Roadside checks are expensive and so, rather than institute our own, the RIS usually attends those organised by either the police, or the Department of Transport. A typical two-hour check can reveal an assortment of linear amplifiers, the odd rig fitted with an assortment of extra channels and an incredible number of unlicensed operators, not to mention the odd AM or SSB rig which turns up from time to time. Of course, we are not the only agency who occasionally detects mobile offenders and it is not at all unusual to get a phone call from some policeman who has removed an AM set from a car which he stopped for a completely different reason."

# MAIL ORDER ADVERTISING

## British Code of Advertising Practice

ADVERTISEMENTS IN THIS PUBLICATION ARE REQUIRED TO CONFORM TO THE BRITISH CODE OF ADVERTISING PRACTICE. IN RESPECT OF MAIL ORDER ADVERTISEMENTS WHERE MONEY IS PAID IN ADVANCE, THE CODE REQUIRES ADVERTISERS TO FULFIL ORDERS WITHIN 28 DAYS, UNLESS A LONGER DELIVERY PERIOD IS STATED. WHERE GOODS ARE RETURNED UNDAMAGED WITHIN SEVEN DAYS, THE PURCHASER'S MONEY MUST BE REFUNDED. PLEASE RETAIN PROOF OF POSTAGE/DESPATCH, AS THIS MAY BE NEEDED.

## Mail Order Protection Scheme

If you order goods from Mail Order advertisements in this magazine and pay by post in advance of delivery 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, summarising the situation not earlier than 28 days from the day you sent your order and not later than two 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 (up to a limit of £2,000 per annum for any one Advertiser so affected and up to £6,000 per annum in respect of all insolvent Advertisers. Claims may be paid for higher amounts, or when the above procedure has 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 readers' difficulties.)

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

## "AGRIMOTORS"

(J. W. C. HUNT)

**MERTON "CB" RADIO CENTRE**  
**MERTON, OKEHAMPTON, DEVON. EX20 3DZ**  
**Tel: BEAFORD (08053) 200**

### 27 M/hz

We carry large stocks of 27 M/hz equipment including most makes of C.B. 27 M/hz Transceivers, Antennas both Home Base and Mobile, V.S.W.R. and frequency counting equipment, Watt meters, etc. etc. Power Supply Units from 3 to 12 AMPS, 13.5V, regulated. Masts, Poles, Chimney Lashing Kits, Co-axial Cables, R.G.58 to H100 types always in stock, plugs and fittings of all descriptions, Reverberators, Mikes — H/Base, H/Held, Power, Echo, etc. Bury's Auto-Squelch stocked and fitted, Moonraker, major and minor.

### 934 M/hz

We have in stock and are dealers for:-

"Reftec", Comtel "Kestrel", "Cybernet Delta One", and "Uniac 400".

All types of 934 M/hz Antennas, Mobile Colinears, Gutter mounts, Roof Mag. Mounts, Roof through fittings etc. Home Base Professional Colinears, Yagi Beams, Helical Coil (Circular Polarisation) and quads. RG213UBX and H100 Coax. Cables, all "N" and "BNC" type fittings, S.W.R. meters, combined V.S.W.R. and Watt meters, Masthead or rear of "Rig" Pre-amplifiers (20 D.B. gain) by Crestbyte, Rotators by Kopec and Hirschmann. Antennas by "Reftec", Les Wallen, Tagra and T.A.P. Ltd.

LATEST NEWS: We now stock:-

### For 27 M/hz COMMUNICATIONS

The Radio Technic Ltd. Model RT.852 T/celver. A superb set for Commerce, The Home, and Commercial Transport priced £69.95 (VAT included).

### For 934 M/hz COMMUNICATIONS

The Uniac Tele Communications Ltd Model, Uniac 400 Mobile 8 WATTS out-put transceiver, Crestbyte Ltd. Model AP206, Masthead 8 WATT linear amp., preamp double switching for co-linear and beam antennas.

Hours: 9am-1pm. 2pm-6pm. Mondays to Saturdays (Inclusive) Sundays - by appointment

# AUTO-SQUELCH

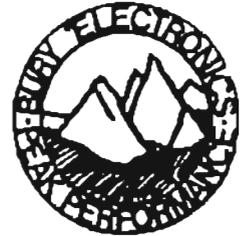
## AUTO-SQUELCH

## AUTO-SQUELCH

- \* Fits neatly inside rig.
  - \* Size approx. 30 x 20 x 15mm.
  - \* Cuts out FM fizz and SSB signals between transmissions
  - \* Works Independently of signal strength or noise levels - so requires no adjustment
  - \* Does not effect weak signals.
  - \* Can be overridden by normal sq control if desired
- Suitable for most popular FM CB rigs and multi-mode rigs (FM section). Full fitting instructions etc. and technical back up available.

Now available from good CB shops

**Bury Electronics**  
**Home Farm House**  
**Lower Brilles**  
**Banbury, Oxon**  
**OX15 5HZ**  
**TEL: Brilles 432**



## GOLF COMMUNICATIONS

Do you suffer with Bleedover, Crossmod, Images?

Our Custom Crystal Filter provides dramatic improvement in selectivity, satisfaction guaranteed.

Suitable for the following rigs:

CB MASTER	Puma	STALKER
85020	Viking	ST 9 F DX
3600	Viking 2	SUPERSTAR
COBRA	HY-GAIN	360 FM Mk 1
148 GTL DX Mk 1	3 2703	360 FM Mk 3
148 GTL DX Mk 3	5 2795 Mk 1	2000 Mk 1
GTL 150	5 2795 Mk 2	2000 Mk 2
COLT	5 2795 DX	2200
320	5 8795	TRISTAR
320 FM	INTEK	747
485	1200 FM	777
720	LAFAYETTE	797
870	HB940	848
890	1200 FM	SUITABLE MAIN
1200 DX	1800	BOARD No.
1200 Excalibur	MARCO	PB010
1600 DX	444	PC879
1600 Excalibur	747	PC893
FORMAC	Excalibur 1	PC999
80	MAJOR	PTBM 069
88	M120	PTBM 084
120	M588	PTBM 106
HAM INTERNATIONAL	M360	PTBM 121
Concorde 1	MIDLAND	PTBM 126
Concorde 2	6001	PTBM 131
Concorde 3	7001	PTBM 133
Jumbo 1	NATO	PTBM 137
Jumbo 2	2000	PCMA 001
Jumbo 3	PRESIDENT	
Multimode 2	McKinley	Please state chassis
Multimode 3	Grant	number required.

Complete with simple-to-fit instructions £9.95 inc.  
**GOLF COMMUNICATIONS**  
**PO BOX 60, RICKMANSWORTH, HERTS WD3 2XE**



frequencies, how to fit PLs, how to mount a car antenna, codes of practice, how to DX correctly, how to QSL and much more.

For anyone who would like this leaflet plus membership to our club, all that is required is a stamped addressed envelope (foolscap size) which must contain your handle/call sign, name and, of course, return address. We then ask all our current members to set a good example on the air and to encourage new breakers of any age to become good breakers, because the ones that are not welcomed and taught the correct ways will soon develop into our next generation of wallies. Maybe other clubs will follow suit and try to clean up the airwaves, especially as it would appear that the authorities don't want to know. I'm sure that it would also lead to a few more of us becoming "legal" breakers too.

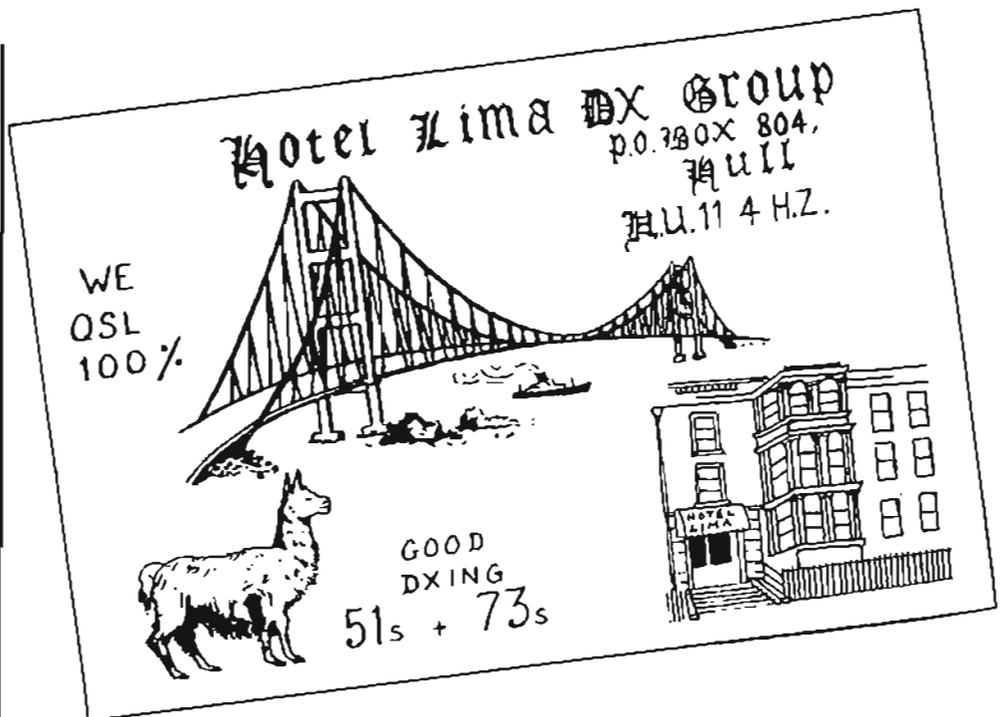
Blunderbuss (Martin),  
Tripe City Breakers DX — QSL Club,  
55 Whitegate Close,  
Padiham,  
Burnley,  
Lancs.

### Group 2LO Radio Club

Back in the winter of 1981/82, this group was formed by several mature breakers wanting to get away from the wallies who followed them round from pub to pub, so a secure venue was found and membership restricted to operators with a mental age of over 30.

The club is still going strong and every year, with help from other local clubs, we organise the 2LO Poppy Run, which is a cycle ride from Richmond, Surrey to Brighton seafront in aid of disabled ex-servicemen of the Royal Star and Garter Home.

Most of the members are long-established CBers and many are now also licensed amateurs. Any sensible breakers wishing to meet a warm and friendly group will be welcome to visit at the South Western pub, Whitton Road, Hounslow, Middlesex any Thursday night. Best wishes for 1986 to all clubs everywhere.



PS. The money raised on the poppy run over three years is in excess of £5,000.

Mike Alpha Charlie (chairman),  
Group 2LO Radio Club,  
c/o South Western public house,  
Whitton Road,  
Hounslow,  
Middlesex.

### Peterborough & District CB Radio Group

We formed our club in April last year and we already have over 50 members in and around the Peterborough area. Our aims are to raise money for local charities and to help out blind and disabled CBers (we have already provided a Backchat for a blind person).

Our membership is £2.50 a year and members get 10 free QSL cards, as well as use of the PO Box.

A Fitzjohn (PD02),  
PO Box 97,  
Peterborough,  
Cams.

### Hotel Lima DX Group

The Hotel Lima DX Group started in May 1985 and we have a membership now of 73, and it's still growing. Membership of the club is 50p a year as we are just a DX group with a PO Box. The charge helps with the PO Box cost and any extra money also helps keep the cost of DX cards down.

Condition of membership is that all QSL cards received must be returned. Cards are collected from our home QTH or our headquarters at Hull CB centre, 194 Hessele Road, Hull, but for long distance members, we forward if a SAE is supplied.

Bookworm (HL 01),  
PO Box 804,  
Hull.

### Midland Radio Group

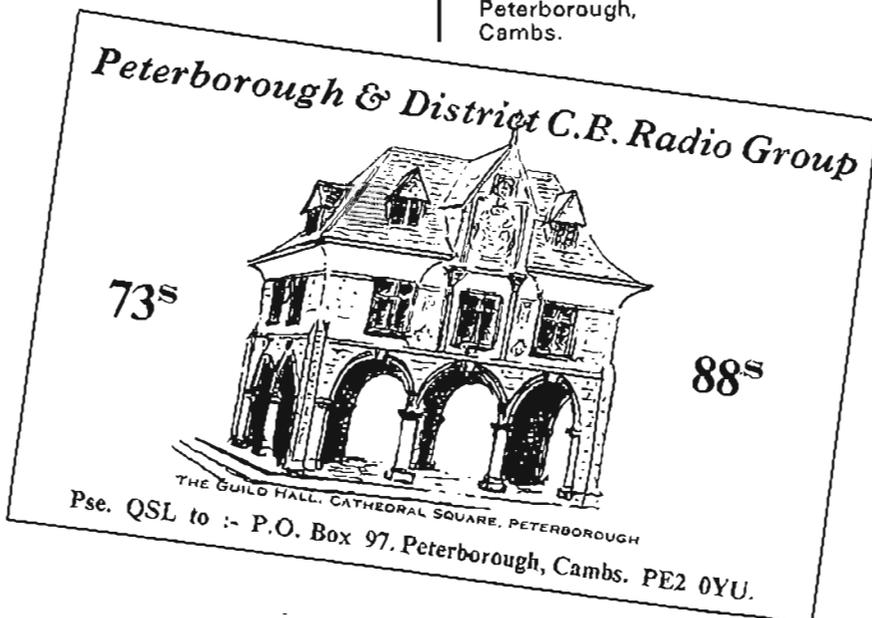
I would like to inform you of our radio group. We are a group of Midland CBers and radio amateur enthusiasts whose sole aim is to DX and create friendship throughout the entire spectrum of radio operators.

Presently, the group meets every two weeks at The George public house in Oldbury, West Midlands. Anyone wishing to visit us would be made most welcome; we meet Monday nights.

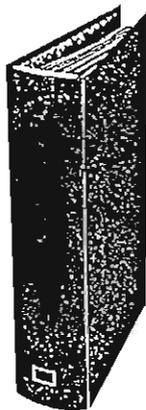
We formed in December 1984 and, at present, have a small restricted amount of members, but due to many requests for membership we have decided to extend the membership. This may also include postal members and this will take place at the beginning of 1986.

Anyone who may be interested in joining the group, please write for details, also any other DX radio group; we would be pleased to hear from you.

Paul (Secretary),  
Midland Radio Group,  
PO Box 33,  
Warley,  
West Midlands.



# BINDERS



For your Valuable Collection of  
CITIZENS BAND  
MAGAZINES

\*Smart \*Easy to use \*Top Quality

To ASP Readers Services, PO Box 35, Wolsey  
House, Wolsey Road, Hemel Hempstead, Herts  
HP2 4SS (0442-41221).

Please supply. . . . Citizens Band Binders @ £5.20 inc. P&P  
Total £ . . . . . (Please make cheque payable to ASP Ltd.)  
Years Required — 198.... 198.... 198.... 198....

Name .....

Address .....

Please allow 21 days for delivery



# RADIOTECHNIC

PROUDLY PRESENT  
THE NEW

## RT852

"I was able to pull in stations that were totally  
inaudible on other rigs."

— Chris Peterson in 'Citizens Band' Nov 85

Available at:

Abingdon Modulations Andover P. Squires; Barrow Furness Comms, Bedford  
Civic TV; Beeston Autovision; Birmingham Square Wheels; Bishop Auck-  
land Ian Fisher Comms, Bordon Breakers World; Bournemouth B.O.C.;  
Bradford Horsetrader; Brierley Hill CB Cabin; Cambourne Chat-Back;  
Chesterfield Rileys TV; East Ardsley Superscap CB; Exeter Exeter CB;  
Fakenham Parkside Garage; Grangemouth R. Thomson; Guernsey Nicole  
Elec; Haddenham Tower Comms; Halifax CB+ Electric; Ipswich Marston  
Elec; Isle of Man Bevans Ltd; Isle of Wight Knick Knacks; Jersey CB  
Supplies; Lancing South Coast Elec; Langley Globemaster, Liverpool Aerial  
Supplies; Liverton Monts CB; Leicester CB Centre Ltd; London AM Autolune;  
London Balham Street Motors; London Henrys Ltd, Paddington; Maldstone  
South East CB; Manchester Channel One; Melton Mowbray T. Hall and Son;  
Minchinhampton F. A. Wall & Son; Newcastle-on-Tyne H. R. Watson;  
Norwich WTA Electronics; Okehampton Agrimotors; Orplington FAB Phones;  
Reading Catswhiskers; Peterborough Bens TV; Petersfield Road Radio;  
Plymouth Maggies CB; Poole Serv-U; Portsmouth Telcomms; Rainham  
Imagefree; Shoreham Channel One; South Humberside Marris Green;  
South Yorkshire RAF COM, Southampton SSE Electronics; St. Leonards-  
on-Sea Inrange; Stockton-on-Tees AFW Radio Ltd; Stoke-on-Trent CB City;  
Tonbridge Standens RD's CB; Worthing GWM Radio.

In case of difficulty, contact sole U.K. Distributor:

TELECOMMS, 189 LONDON ROAD  
PORTSMOUTH, HANTS PO2 9AE  
TEL: (0705) 662145 TELEX: 869107 TELECOM G

## HAM INTERNATIONAL MAIN DEALER FOR SOUTH WALES

# C B T

1 Prince of Wales Rd.,  
Swansea  
(0792) 463821

Ham Relax Power Mike.....	£22.50 (C)
Ham 232S Processor Base Mike.....	£44.99 (D)
Ham 232DX Processor Base Mike.....	£49.99 (D)
Ham Antenna Matcher with through switch.....	£10.99 (C)
Ham 10-12 amp Power Supply.....	£69.95 (E)
Ham Thunderbird Base Ant 5/8 wave.....	£39.95 (E)
Ham High Power Ant 5/8 wave.....	£49.95 (E)
Ham Sexy base antenna 5/8 wave.....	£85.00 (E)
Ham Big Mac Base Ant 7/8 Wave.....	£85.00 (E)
Frequency Counter 5 digits.....	£59.99 (E)
Ham extension speaker with filter.....	£10.99 (C)
Ham LA 120 100 watt am/fm — 200 watts ssb variable with preamp.....	£179.00 (E)
Ham LA 60 50 watt am/fm — 100 watt ssb variable with preamp.....	£130.00 (E)
SEIF reverberator RA 201.....	£34.95 (D)
Ham ROS-90 SWR-FS-Antenna Matcher.....	£19.99 (B)
Ham ROS-4 SWR-Power-FS.....	£12.99 (B)
Ham ROS-6 SWR-Power modulation meter.....	£49.00 (B)
Ham HFC 03 Frequency Counter.....	£85.00 (D)
Ham HFC 04 Frequency Counter.....	£89.95 (B)
Ham Standard Mike as originally supplied by Ham.....	£7.99 (B)
Fidelity 2000 160ch. FM.....	£99.99 (D)
York 861 40 channel FM Cybernet chassis.....	£59.99 (D)
York 861 80 channel FM Cybernet chassis.....	£75.00 (D)
York 861 160 Channel.....	£90.00 (D)
York 861 120 channel.....	£90.00 (D)

Other range available on request

120 channel expansion boards (state rig) for FM rigs.....	£29.99 (C)
Sunny 200s 100 watts AM/FM 200 watts SSB.....	£89.99 (D)
Cobra 148 original rig bracket.....	£4.99 (B)
Multimode II or Concorde II handbook copies.....	£1.50 (A)
Multimode Two rig bracket.....	£4.99 (B)
Super Star 360 handbook copy.....	£1.50 (A)
Cordless Telephones.....	from £50.00
Auto squelch for FM rigs (state model).....	£12.95 (B)
Service manual for FM Rigs.....	£3.00 (B)
Service manual for SSB Rigs.....	£6.00 (B)

Spares available for Ham Models

POSTAGE RATES: (A) 50p (B) £1.00 (C) £2.00 (D) £3.00 (E) £5.00

To obtain our catalogue on C.B. equipment send £1.50 to  
C.B.T., 1 Prince of Wales Road, Swansea, Catalogue  
contains the MMIII CONCORDE III & JUMBO III

ACCESS AND BARCLAYCARD ACCEPTED

If an  
advertisement  
is wrong  
we're here to  
put it right.

If you see an advertisement in  
the press, in print, on posters or in the  
cinema which you find unacceptable,  
write to us at the address below.

**The Advertising  
Standards Authority.**

ASA Ltd, Dept 3 Brook House,  
Torrington Place, London WC1E 7HN

# Mack Chat



## Mack investigates business use on 934MHz

I was flabbergasted — in fact my gaster was well flabbered — when I read the letter last month from CTVR communications, Grantham. Idiots on 934? Could he mean the wally types who are normally found on 27MHz? Living on the outskirts of London and being able to communicate with most stations in and around this city I would have thought that I would have known if any idiots were in evidence. Also, I would have thought that if the wallying had started it would have surely reached London. Reading through the letter I realised what it was really all about. Mr Buck is quite correct in his statement that the CB frequencies are open to business users. In fact, I have just checked through all the past literature that I have received from the Home Office and DTI relating to licencing conditions. Many mentions are made to the effect that the CB channels are to be shared between all users including business users and one of the DTI's information sheets even recommends that the 934 frequency would be a better mode for business use. OK, fair enough, Mr Buck's remarks are true. A business user would only use one channel at a time and for a short period to pass on a message. As a 934 user myself, that's fine. I can find no objection to that and I'm surprised that the other users that Mr Buck refers to as idiots should have any objection to this procedure. In fact, any 934 hobbyist user who is guilty of the offences that Mr Buck spoke of would be better off on 27MHz if they want to police the band, having goes at the idiots on that frequency. Let us suppose that a small taxi firm with, say, three mobiles and a base use it for their business and also for the occasional chat when the taxis are not conveying passengers, and they allowed other breakers in on their conversations. It would be accepted by all the 934 hobbyists. Yet it seems that if the taxi firm cold-shouldered the 934 hobbyist, the hobbyist gets the 'like' and causes trouble. I ask why? It could be a coincidence but amongst my latest batch of fan mail I received a letter from 'Merlin' who recently joined the 934 band and says all was well for

about five weeks but now he and his mate 'Spiderman', who also sacrificed much to purchase 934 equipment, find they are getting "screech-screech, bleep-bleep, goody, blah-blah taxis at your service" all over the top of whoever they are talking to at the time. From what Merlin also tells in his letter, someone in his area (Swineshead, Lincs, not too far from Grantham) has come up with the idea of connecting an IQ smartpatch to a Cybernet Delta One along with a sell-call device and is selling them to taxi firms. (Must be CTVR). As I can see from his letter, here is one 934 hobbyist who is not happy with the idea of business users on the 934 band and, as he states, the business users are going over the top of his communications.

### Conditions

Back to the licence conditions. Mr Buck is correct when he points out that the CB bands can be shared but he should have read or have noticed licence condition 7. I won't quote it here but all of you with current licences will see that it confirms that selective calling systems are allowed, as are tone bursts and, of course, plain speech. Now Mr Buck says that when his system is in use a 'hum' will be heard over the business user's transmission. By a 'hum' he must mean a continuous digital tone. Is that permissible? I think not. Condition 7 in my CB Information Sheet No 2, June 1984 (Licence Conditions) issued by the DTI states that coded transmission including morse and computer signals are not permitted. So this 'hum' could well be defined as a computerised signal. If the users of the 'doctored' 934 rigs cannot hear other stations, how do they know if the channel is in use or not? Fair enough, the doctored rig can scan for a clear channel, but I believe that the user would have and would use a favourite or preferred channel that they would regard as 'their' channel and they would not know or care if the channel was being used by the hobbyist.

Mr Buck also states that there are enough channels at the present for all

to use, but if his idea catches on, and I can well believe it could, as many companies are looking for cheap PMR systems for the reasons that Mr Buck mentions, will it be good for the average citizen's band enthusiast? Surely CB was conceived with the hobbyist in mind. When I was campaigning for legalisation, I didn't see any private business companies on the Saturday afternoon marches and meetings.

Already we have the cellular telephones that are clogging the 934 bands and if this cheap PMR catches on then the 20 channels begin to thin out a little. I can also see a lot of other disadvantages. For instance, if the hobbyists do get the needle they would only have to go mobile and park a couple of streets away from the taxi office and waffle on the channels that the taxi company use. Worse still, if a burglar acquired a 934 rig, he could listen on the taxi channels, and the rest you can imagine.

Why do people make such a big noise over the amateur radio exam and the passing of it (remember Tom McLean on Rockall saga)? Why is it that many people take on the attitude of 'I'm a radio amateur and are therefore holier than thou!' Big deal, so you went and put the lines across the boxes in the correct order. So did I, and I bet a chimpanzee could be trained to do the same. I wonder if it's as much luck as skill, as I could quote many instances of licenced hams that confess that they were surprised that they passed. When I took my Part 2 for the fourth time, I came out of the examination room feeling more of a failure than the previous three times. I told myself to forget the amateur scene as it was obviously not for me and get stuck into more CB. I did forget about it that until that January morning when the result slip arrived with a credit pass (second best). No way was that skill, but pure luck.

This is nothing to do with radio but if you ever want to pass a worthwhile exam try passing the licenced London taxi driver's "knowledge". Only one out of ten succeed and it can take from one year to pass out. The failures drive mini cabs (pirates)!

# CB Citizens' Band

## READER SERVICES

### Back Issues

The following issues of Citizens' Band are still available as back numbers. The cost of each magazine is £1.50. This includes packing and posting. Please allow 28 days for delivery.

Issue	Major feature
January 1985	SWR survey and Breaker's Basic
February 1985	Understanding CB specs.
March 1985	Commtel 934
April 1985	QSL History
May 1985	Jungle CB
June 1985	Catcall rig
July 1985	Amateur Radio
August 1985	Uniace 934
September 1985	John Butcher interview
October 1985	Plugs and cables guide
November 1985	Radiotechnic RT852
December 1985	The story of 934
January 1986	CB codes explained

### Binders

To keep your copies of Citizen's Band neat and tidy, binders are available to hold 12 copies of the magazine. Each binder costs £5.00 and this price includes packing and postage.

### Subscriptions

Citizens' Band is available on subscription at the following prices;

UK and BFPO	£16.90
Overseas (excluding U.S.A.) Accelerated Surface Post	£22.00
U.S.A. Accelerated Surface Post	\$28.00
Airmail	£48.50

Each subscription lasts for twelve issues of the magazine.

Infonet Ltd, Times House, 179 The Marlowes, Hemel Hempstead, Herts. HP1 1BB. Tel: 0442 48435.

Please send the following back numbers of Citizens' Band, price £1.50 inclusive.

.....  
 .....  
 .....  
 .....

Please send ..... Citizens' Band Binders price £5 each inclusive.

Please start my annual subscription to Citizens' Band with the ..... (month) issue I enclose ..... for a year's subscription.

All cheques payable to A.S.P. Ltd.

Total cost of Order £.....

Please allow 28 days for delivery

I enclose my cheque/postal order for above amount payable to A.S.P. Ltd.

Please debit my Access/Barclaycard (delete as necessary)

Card

No.

Name .....

Address .....

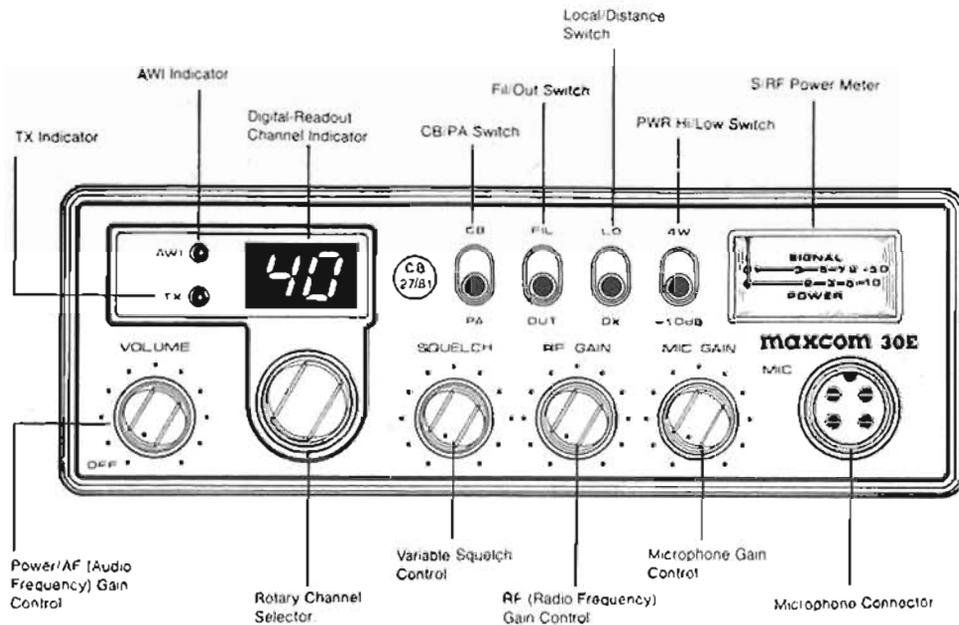
.....

Post Code ..... Date .....

Signature .....

# Citizens' Band

## REFERENCE SECTION



### A CB SET AND ITS CONTROLS

#### VOLUME

Sometimes called *Audio Frequency Gain* control. Usually combined with the 'power on' switch. The volume control will only increase or decrease the loudness of the incoming signal — it won't alter the strength of it or affect the transmitted signal.

#### CHANNEL SELECTION

For choosing the channel you transmit and receive on.

#### CHANNEL INDICATOR

Displays, usually by LEDs, the channel you have selected. Some channel displays are of liquid crystal or fluorescent. The digits are normally bright red, green, orange or blue and visible in all but the most direct sunlight.

#### SQUELCH

The squelch control is used for quieting background hiss or the babble of distant signals. The control is turned slowly, usually to the right, until the background noise disappears. The squelch circuit will then only open to let through a stronger signal than those you have quieted out. As soon as the stronger signal goes, the circuit closes. Care must be taken not to turn the squelch control up too far, as then only a very strong signal will open it.

#### SIGNAL/RF METER

On most sets this is of the 'moving needle' type against an analogue background. Some sets do have a bar of LEDs that light up to show the strength of either the received signal or the transmission. It shows the *relative* strength, not a reading in dB or Watts. These meters cannot be 100% accurate and different rigs will give slightly different readings for signals of the same strength.

#### RF GAIN

This controls the reception sensitivity of the set. When decreased the set is less sensitive, and when increased the set is more sensitive to weaker signals. Reducing the gain helps prevent overloading when talking to someone who is very close.

Some sets, instead of having a suitable rotary control, have a flick two position switch marked *local* and *distance*. Full sensitivity is the distant position.

#### MIC. GAIN

Adjusts the sensitivity of the microphone amplifier circuit and controls the audio from the microphone that is used to modulate the signal.

#### CB/PA SWITCH

This switch turns your CB set into a low public address amplifier, when an external speaker is fitted into the socket on the back of the rig. Anything said into the microphone is amplified and broadcast through the speaker and not transmitted from the antenna.

#### tone or Filter Control

This can either be a rotary or flick switch. It controls the tonal quality of received signals in accordance with the users preference.

#### POWER ANTENNA

Reduces the transmitter power from 4Watts to 0.4Watts. The attenuator should be used if your antenna is mounted more than 7 metres above the ground.

#### RX/TX INDICATORS

These light emitting diodes light up to show if you are receiving (RX) or transmitting (TX).

#### ANTENNA WARNING INDICATOR

This a warning indicator which is activated by trouble in the antenna system e.g. a bad mismatch or damage to the antenna or cable. You should stop transmitting if this lights up, and correct the problem.

Your set may also have the following controls . . .

#### CHANNEL 9 SWITCH

This is an 'over-ride' switch that will immediately select channel 9 without using the channel selector to find it. It is fitted to save time in an emergency.

#### DELTA TUNE

This is not a common feature on British sets, where frequency and stability are closely specified. It is a fine tuning device for tuning in stations that are operating slightly off frequency.

#### DIMMER

Works on the same principle as a domestic light dimmer, and reduces the amount of illumination on displays and dials on the CB set. A few sets have an automatic dimmer built in, which measures the lighting level through a photo-electric cell and adjusts the illumination accordingly.

#### ANL/NOISE BLANKER

The Automatic Noise Limiter or Noise Blanker is designed to reduce interference from a car's ignition system by desensitising the receiver slightly. If the ignition circuit is already adequately suppressed it will not make any difference.

#### CHANNEL BUSY/FREE INDICATOR

This is usually a LED that illuminates when a particular channel is in use or is free. This is gauged by the amount of 'traffic' on the channel which has to be at a certain level before the indicator is activated. Sets have either a 'free' or 'busy' indicator, not both.

# REFERENCE

# FM RIG CHECKLIST



NAME	MODEL	RETAIL PRICE	NO. OF CHANNELS	SUPPLY VOLTAGE	SQUELCH	NB SWITCH	ANI SWITCH	MIKE GAIN	RF GAIN	tone control	S/Rf METER	S/Rf LED R/O	HI/LO OUTPUT	PA FACILITY	EX. SPEAKER JACK
AUDIO LINE	341	£60	40	13.8VDC	•			•	•	•	•		•	•	
AUDIO LINE	340	£40	40	13.8VDC	•			•	•	•	•		•	•	
AUDIO LINE	342	£115	40	13.8VDC	•						•			•	
COLT	295	£49.99	40	13.8VDC	•				•		•		•		•
COMMTEL	GT858	£30	40	13.8VDC	•						•		•		•
COMMTEL	GT688	£35	40	13.8VDC	•				•		•		•	•	•
COMMTRON	CB40F	£70	40	13.8VDC	•						•		•		•
COMMTRON	CXX	£69.95	40	13.8VDC	•				•		•		•	•	•
COMMUNICATORS	NI-440DX	£60	40	13.8VDC	•				•	•	•		•	•	•
CYBERNET	BETA 1000	£70	40	13.8VDC	•						•		•		•
CYBERNET	BETA 2000	£85	40	13.8VDC	•				•	•	•		•	•	•
CYBERNET	BETA 3000	£189	40	13.8VDC	•				•	•	•		•	•	•
CYBERNET	DELTA 1	£355	20	13.8VDC	•						•		•		•
INTERCEPTOR	INTERCEPTOR	£80	40	13.8VDC	•				•	•	•		•		•
INTERCEPTOR	TC400	£95	40	13.8VDC	•		•	•	•	•	•		•		•
INTERCEPTOR	ONE HANDER	£100	40	13.8VDC	•			•	•	•	•		•		•
JOHNSON	JOHNSON	£50	40	13.8VDC	•				•		•		•	•	•
LAKE	MANXMAN 850	£32.50	40	13.8VDC	•						•		•		•
LAKE	MANXMAN 950	£37.50	40	13.8VDC	•				•		•		•	•	•
LOWE	TX 40	£50	40	13.8VDC	•				•		•		•		•
MAGPIE	AUTOSCAN 5000	£120	40	13.8VDC	•			•	•		•		•	•	•
MAXCOM	4E	£50	40	13.8VDC	•						•		•	•	•
MAXCOM	6E	£48	40	13.8VDC	•				•		•		•		•
MAXCOM	20E	£50	40	13.8VDC	•						•		•		•
MAXCOM	21E	£50	40	13.8VDC	•						•		•		•
MAXCOM	16E	£40	40	13.8VDC	•						•		•		•
MAXCOM	30E	£65	40	13.8VDC	•			•	•	•	•		•	•	•



This listing includes most of the rigs available for FM CB. Some rigs are still not on the market, but may be picked up second-hand or may be found in old stock at some shops. The prices quoted are recommended retail prices or typical price — they may vary considerably from shop to shop and area to area.

# MOBILES

TX IND. LIGHT	RX IND. LIGHT	CH 9 SWITCH	MIKE POSITION	COMMENTS	ADDRESS	NAME
●			SL		Telecomms, 189 London Rd, North End, Portsmouth	AUDIOLINE
				Report Feb '82		AUDIOLINE
●						AUDIO LINE
			FL		K B & Co Ltd., 202 Cheetham Hill Rd, Manchester	COLT
			SL		Globe, 168 Brooker Road, Waltham Abbey, Essex	COMMTEL
			SL	Dimmer Switch Features		COMMTEL
●		●	FL		Roger D, 831 Mansfield Rd, Notts	COMMTRON
●			FL			COMMTRON
●	●	●	FL	Roger Beep Feature		
			SL		Telecomms, 189 London Rd, North End, Portsmouth	CYBERNET
●	●		FL	Report May '83		CYBERNET
●	●	●	FL	Report September '83		CYBERNET
			FR	Report Oct '84		CYBERNET
●			SL			INTERCEPTOR
●			FL			INTERCEPTOR
●			FL			INTERCEPTOR
			FL	Great GT868 chassis	Star Warehouse, Chalk Farm Rd, London	JOHNSON
			FL		Roger D, 831 Mansfield Rd., Nottingham NG5 3GF	LAKE
			FR	Report April '83		LAKE
●	●		FL	Report March '83	Low Electronics, Matlock, Derbyshire	LOWE
●		●	FL	Report November '82	Maggie Electronics, PO Box 35, Andover, Hants SP10 2LG	MAGPIE
●			FL		AM House, 9A Old's Approach, Tolpitt Ln, Watford, Herts	MAXCOM
●		●	FL			MAXCOM
●		●	FL			MAXCOM
●		●	FL			MAXCOM
●		●	FL			MAXCOM
●			FL			MAXCOM
●			FL			MAXCOM
●			FL	Report Jan '84		MAXCOM



# REFERENCE



NAME	MODEL	RETAIL PRICE	NO OF CHANNELS	SUPPLY VOLTAGE	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
MERCURY	10 40	N/A	40	13.8VDC	•			•		•		•	•	•	
MUSTANG	CB1000	£49.95	40	13.8VDC	•					•			•	•	
MUSTANG	CB3000	£59.99	40	13.8VDC	•			•	•	•			•	•	
NATO	40M	£69.95	40	13.8VDC	•			•	•	•			•	•	
NATO	2000	£189.95	40	13.8VDC	•	•	•	•	•	•		•	•	•	
OSCAR	OSCAR I	£85	40	13.8VDC	•					•		•		•	
OSCAR	OSCAR II	£49	40	13.8VDC	•					•		•		•	
RADIOTECHNIC	SUPERTUNED M40	£59.95	40	13.8VDC	•					•		•		•	
RADIOTECHNIC	RT 852	£69.95	40	13.8VDC	•					•		•		•	
ROTEL	RVC 220	£50	40	13.8VDC	•					•		•		•	
ROTEL	RVC 230	£70	40	13.8VDC	•					•		•		•	
ROTEL	RVC 240	£90	40	13.8VDC	•			•	•	•		•		•	
SIRTEL	SEARCHER	£40	40	13.8VDC	•					•		•		•	
TANDY	TRC2001	£80	40	13.8VDC	•					•		•		•	
TANDY	TRC2002	£70	40	13.8VDC	•					•		•		•	
TANDY	TRC2000	£100	40	13.8VDC	•			•	•	•		•		•	
TANDY	TRC1004	£79	40	12VDC	•					•		•		•	
TANDY	TRC2003	£130	40	13.8VDC	•					•		•		•	
UNIDEN	UNIACE 100	£69.95	40	13.8VDC	•					•		•		•	
UNIDEN	UNIACE 200	£89.95	40	13.8VDC	•			•	•	•		•		•	
WESTERN	COMPACT 40	£34.50	40	13.8VDC	•					•		•		•	
WESTWARD	P.T.2	£159.95	40	13.8VDC 240V	•					•		•		•	



NAME	MODEL	RETAIL PRICE	NO OF CHANNELS	SUPPLY VOLTAGE	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
AUDIOLINE	345	£139.95	40	240VAC	•			•	•	•		•		•	
COMMTEL		£65	40	240/12V	•					•					
HAM INT.	JUMBO	£254	40	240VAC	•	•	•	•						•	•
HARVARD	H401	£149.95	40	240VAC	•			•	•	•		•		•	
HARVARD	WT44		40	BATTERIES	•							•			
KAISER	CBX40	£80	40	BATTERY	•					•		•			•
MAXCOM	7E	£69.95	40	BATTERY	•					•		•			
TANDY	TRC1001	£119		BATTERY	•					•		•		•	•
UNIDEN	UNIACE 300	£149.95	40	240VAC	•			•	•	•		•		•	•
WESTWARD	P.T.2	£159.95	40	240V/12V	•					•		•		•	•

# MOBILES

TX JACK	TX IND. LIGHT	RX IND. LIGHT	CH 9 SWITCH	MIKE POSITION	COMMENTS
•	•			FR	Report July '83
•	•			FL	
•	•		•	FL	
•				FL	
•				SL	Report January '83
			•	FL	Cybernet 134 chassis rep. April '82
				FL	Report Oct '83
•	•			FL	Report July '82
•	•			FL	Report Nov '85
•				FL	Cybernet chassis
•	•		•	SL	Cybernet chassis
•				SL	Cybernet chassis
•				FL	
•	•			SL	
•				SL	
•				SL	
•				SL	
•				SL	Report Nov '82
•				SL	Report Sept '82
•	•			FL	Report Feb '83
•	•			SL	
				FL	Report Nov '83

ADDRESSES	NAME
E.M.S. Communications, Grove St, Wantage, Oxon OX21 7AD	MERCURY
K.B. & Co Ltd, 202 Cheetham Hill Rd, M/cr.	MUSTANG
	MUSTANG
Roger D, 831 Mansfield Rd, Nottingham NG5 3GF	NATO
	NATO
S.M.C. Runbridge St, Totton, Hants SO4 4OP	OSCAR
	OSCAR
Radiotechnic Ltd, Rue des Buttes, St Mary, Jersey, C.I./23 Telford Rd, Fern Down Industrial Estate, Fern Down, Wimborne, Dorset	RADIOTECHNIC
	RADIOTECHNIC
Rotel Hi-Fi, 2-4 Erica Rd, Stacey Bushes, Milton Keynes	ROTEL
	ROTEL
	ROTEL
	ROTEL
	SIRTEL
Tame Way, Tower Bridge St, Walsall, Staffs	TANDY
	TANDY
Cravenminster Ltd, Unit 8, Ind Est, Llandudno Junct, Gwynedd	UNIDEN
	UNIDEN
Western Electronics, Fairfield Est, Louth, Notts	WESTERN
Westward Electronics, The Mill House, Westward Tuckenhay, Totnes, Devon O86423 336/370	WESTWARD

# BASES & PORTABLES

TX JACK	TX IND. LIGHT	RX IND. LIGHT	CH 9 SWITCH	MIKE POSITION	COMMENTS
•					
				FR	Report December '83. Also comes with telescopic antenna
•				SL	
•				FL	
					External antenna facility
•					
•					
•				FL	Reviewed August '83
				FL	Report Nov '83

ADDRESSES	NAME
Telecomms, Portsmouth and Globe, Essex	AUDIOLINE
	COMMTel
	HAM INT.
	HARVARD
Globe, 168 Brooker Road, Waltham Abbey, Essex	HARVARD
Telecomms, 189 London Road, North End, Portsmouth	KAISER
Sharman's Wholesale, 3 Bury New Rd, Manchester (061-834 9571)	MAXCOM
Tame Way, Tower Bridge Street, Walsall	TANDY
Cravenminster Ltd., Unit 8, Industrial Estate, Llandudno Junction, Gwynedd	UNIDEN
Westward Electronics, The Mill House, Tuckenhay, Totnes, Devon O80423 336/370	WESTWARD

# ANTENNA CHECKLIST

**Name**  
Lists antennas by name and model number and gives you, where possible, the name and address of the manufacturer or distributor.

**Construction**  
The majority of home base antennas are made of aluminium and mobile antennas from stainless steel, but fibre glass can be

The D.T.I. specs for CB antennas are now more liberal than those originally in force, with the base loading restriction removed to permit any type of loading as long as the antenna is 1.65m in length (or less) and no more than 55mm in diameter. This revised checklist now includes the many new antennas released after this change of heart.

NAME	ADDRESSES	MODEL	CONSTRUCTION	LENGTH	MAX POWER	TYPE	LOADING	MOUNT	PRICE RANGE
AERIAL SUPPLIES	Aerial Supplies (Redditch) Ltd. 5 Widney House, Bromsgrove Road, Redditch, Worcs. (0527 62620/60107)	Silver Star	AL	1.5	100	B	B	Pole	C M D
		Silver Arrow	AL	1.5	500	B	B	Pole	
		Javelin	AL	1.64	500	B	C	Pole	
		Javelin Dipole	AL	1.64	500	B	B	Pole	
ALLGON	Communications, 10 North Street, Strood, Kent.	Various	FG SS AL	Various	Various	B M	T C B C W B	Various	A-H Inc.
		466	SS	1.4	10w	Marline	C W B	Mast/Cabin	F
ARMSTRONG	Stateside Trading Ltd. Audley Avenue, Newport, Shropshire	SAM 10	SS	1.06	1000	M	B	Surface	E F F G G G G G
		SAM 20	SS	1.06	1000	M	B	Spring Surface	
		TAK 10	SS	1.06	1000	M	B	Boot lip	
		TAK 20	SS	1.06	1000	M	B	Spring Boot lip	
		MAG 10	SS	1.06	1000	M	B	Mag.	
		MAG 20	SS	1.06	1000	M	B	Spring Mag.	
		BDY 20	SS	1.06	1000	M	B	Side	
		PEC 20	SS	1.06	1000	M	B	Side, Fold over & Quick Disconnect	
ARCHER	Tandy Corp. Tameway Tower, Bridge Street, Walsell, West Mids.	21-904	SS	0.5	50	M	B	3/8" thread	D
BANDIT	Telecomms, 189 London Road, North End, Portsmouth	810	SS	1.42		M	B	Mag.	G F F F F E E E D D D
		815	SS	0.61		M	B	Mag.	
		B15	SS	1.22		M	B	Mag.	
		820	SS	1.42		M	B	Mirror	
		830	SS	1.42		M	B	Drill Thru	
		830	SS	1.22		M	B	Drill Thru	
		840	SS	1.42		M	B	Various	
		840	SS	1.22		M	B	Various	
		850	SS	1.42		M	B	Various	
		850	SS	1.22		M	B	Various	
BREMI UK LTD.	Unit 6, Innage Park, Holly Lane Industrial Estate, Atherstone, Warks.	B27S	SS	1.62	1000	M	B	3/8" thread	C C E
		C27S	SS	1.38	1000	M	C	3/8" thread	
		HB27S	AL	1.55	1000	B	T	Pole	
CB SERVICES	97 Crab Lane, Harrogate, North Yorks.	Bullwhip Knuckleduster	SS AL	1.5 1.5		M B	B B	Various	C D
COMMTEL	Near Third Drove, Fengate, Peterborough	Rocket	SS	1.5		M	B	3/8" thread	E T T
		Shuttle	FG	1.5		M	B	3/8" thread	
		Starlight	SS	1.5		M	B	3/8" thread	
		Shuttle Star	AL	1.5		B	CW	Clamp	
		Signal searcher	SS	1.5		B	B	Pole	
		Messenger	SS	1.5		B	B	Clamp	
Signal keeper	SS	1.5		B	B	Tripod			
FREEMAN AND PARDD	Tything Road, Arden Forest Ind. Est. Alcester, Warks.	Invader	AL	1.5	250	B	B	Pole	E T T
		Thunderpole II	AL	1.5	500	B	B	Pole	
		Thunderpole III	AT	1.55	500	B	C	Pole	
GAMMA AERIAL PRODUCTS	Lye, West Midlands. (0384 891132/891474)	Skybreaker	AL	1.5		B	B	Pole	D C C D D E E
		Avenger	AL	1.5		B	B	Bracket	
		Lofty	AL	1.5		B	B	Bracket	
		Skybreaker II	AL	1.65		B	C	Pole	
		Avenger II	AL	1.65		B	C	Bracket	
		Lofty II	AL	1.65		B	B	Bracket	
		Firefly	SS	1.65		M	C	3/8" thread	

# REFERENCE

na Checklist will give you the following information:

used in some models. The list tells you what material the antenna is manufactured from.

### Length

The legal maximum length of an antenna is 1.65m, base or mobile.

### Maximum Power

This is intended as a guide

only, as the law only permits an effective radiated power of two watts. The power rating will give some indication of sturdiness. Figure refers to watts.

### Type

Indicates whether a mobile or base antenna.

### Loading

Indicates the type of

electrical loading of the antenna; top, centre, bottom or continuously wound.

### Mount

This gives some idea of the mount or type of mount appropriate for the antenna concerned. Home base antennas are usually pole

mounted, but can be house gutter mounted. Mobile antennas are either mag. mounted by a strong magnet, attached to the car gutter or boot lid edge whilst others are physically attached in the same way as a car radio antenna. Mobile antennas with 3/8" thread usually will fit a range of mounts.

KEY		
<b>Construction</b>	<b>Loading</b>	B — £5-£9.99
SS — Stainless Steel	T — Top	C — £10-£14.99
AL — Aluminium	C — Centre	D — £15-£19.99
FG — Fibreglass	B — Base	E — £20-£24.99
<b>Type</b>	CW — Continuously wound	F — £25-£29.99
B — Base	<b>Price Bands</b>	G — £30-£39.99
M — Mobile	A — £1-£4.99	H — £40 plus.

NAME	ADDRESSES	MODEL	REFERENCE						
			CONSTRUCTION	LENGTH	MAX. POWER	TYPE	LOADING	MOUNT	PRICE RANGE
HAM	Cognet & Co. Whitegate, 12 Farden, Bitterley, Ludlow, Salop	Big Mea	AL	9.8m	2k	B	B	Various	H
		Thunderbird	AL	6.5	2k	B	B	Various	G
		Hipower	AL	6.5	2k	B	B	Various	G
		Quatro	AL	5.0	2k	B	B	Various	G
		Saxy	AL	7.5	2k	B	B	Various	G
HOT ROD	Stateside Trading Ltd. Audley Avenue, Newport.	FM UK	SS	1.27		M	B	3/8" Thread	B
LES WALLEN MANF.	Pembroke Works, Ramsgate Road, Sandwich.	Modulator LC	SS	1.65	1000	M	B	3/8" Thread	C
		M.D.X. Long	SS	2.00	1000	M	B	3/8" Thread	C
		M.D.X. Short	SS	1.65	1000	M	B	3/8" Thread	C
		Mini M.D.X.	SS	1.10	100	M	B	3/8" Thread	B
		Mini 27	SS	1.40	500	M	B	3/8" Thread	B
		T-Bolt	SS	0.83	200	M	B	3/8" Thread	D
		Saturn Exper	AL	1.00	500	B	CW	Pole/wall	F
MARKSMAN	Marksman Products, PO Box 40, Milton Keynes MK6 2UT (0908 868916)	Mister Stick	SS	1.19	Above legal limit	M	C	3/8" UNF	D
				1.63					
R.W. BAQLAND LTD.	Roetan Trading Estate, Providence Street, Lye, Stourbridge, West Midlands (Lye 3160/5051)	Rebel 1	SS	1.6	500	M	B	3/8" Thread	
		Rebel II	SS	1.6	600	M	B	3/8" Thread	
		Rebel Rider	SS	1.6	500	M	C	3/8" Thread	
		Rebel Buller	SS	0.81	50	M	B	3/8" Thread	
		Red Devil	SS	1.62	500	M	CW	3/8" Thread	
REVCO	Telecomms, 189 London Road, North End, Portsmouth.	Revco	SS	1.0	100	M	B	Various	B
SMC	Rumbridge Street, Totton Street, Hants	Oscar C8A 11GP	SS	1.5		B	B		F
		Oscar 11V11S11	SS	1.5		B	B		D
		Oscar 11CM	SS	1.2		M	B	Mag. Foldover Base	C
		Oscar 11CE	SS	1.2		M	B	Pull up	C
		Oscar 11NE	SS	1.6		M	B	Foldover Base	C
		Oscar 11SE	SS	1.5		M	B		B
		Oscar 11ZE	SS	1.5		M	B		B
TAGRA	CB Radio Centre, 337 Kenton Road, Middlessex.	T40	SS	1.4	500	M	B	Various	E
THORO'BRED	Pixtron UK Ltd, 10 Victoria Street, Newark, Notts. (0636 74688 Telex: 377827)	Z 27	SS	1.62	1700	M	B	3/8" Thread	B
		Z Mag	SS	1.62	1700	M	B	3" Dia Magnet	C
		Z 61	SS	1.80	100	M	B	5" Dia Magnet	C
VALOR	W.T.A. Electronics Ltd, 111 Cromer Road, Halesdon, Norwich (0603 47694)	Warrior 850	SS	1.62	1500	N	C	3/8" Thread	C
		Half Broad 520	SS	1.62	1500	N	B	3/8" Thread	C
		Half Broad 510	SS	1.2	1500	N	B	3/8" Thread	C
		Half Broad 500	SS	0.9	1500	M	B	3/8" Thread	C
		Dial-a-Match 540	SS	1.2	100	M	B	3/8" Thread	C
		Dial-A-Match 530	SS	0.8	25	N	B	3/8" Thread	C
		Rubber Duck 300	SS	0.35	25	N	CW	3/8" Thread	E
		Pro Am PLB 27	SS	1.62	200	M	B	3/8" Thread	E
		Road Hog 338	FG	0.9	1000	M	T	3/8" Thread	D
		Road Hog 335	FG	1.2	1000	M	T	3/8" Thread	D
		Road Hog 336	FG	1.52	1000	M	T	3/8" Thread	D
		Road Hog 337	FG	1.75	1000	M	T	3/8" Thread	D
		Road Hog 831	FG	0.6	500	M	T	3/8" Thread	D
		Road Hog 838	FG	0.9	1000	M	T	3/8" Thread	D
		Road Hog 835	FG	1.2	1000	M	T	3/8" Thread	D
		Road Hog 836	FG	1.52	1000	M	T	3/8" Thread	D
		Black Magic 333 1/2	FG	0.75	500	M	T	3/8" Thread	D
		Black Magic 333	FG	1.2	500	M	T	3/8" Thread	D
		Black Magic 332	FG	1.62	500	M	T	3/8" Thread	D
		Black Magic 333 1/2	FG	0.75	500	M	T	3/8" Thread	D
Black Magic 833	FG	1.2	600	M	T	3/8" Thread	D		
WTA	W.T.A. Electronics Ltd, 111 Cromer Road, Halesdon, Norwich. (0603 47694)	Wet Pole I	AL	1.5	1000	B	B	Pole	B
		Wet Pole II	AL	1.5	1000	B	B	Pole	C
		Wet Stick I	SS	1.5	1000	M	B	3/8" Thread	A
		Wet Stick II	SS	1.6	1000	M	B	3/8" Thread	B
VAN ORDT	Knight Communications, Unit 19 Britannia Estate, Leagrave Road.	Audio King	SS	1.5	2000	M	B	3/8" Thread	G

# CITIZENS' BAND

## Lineage:

46p per word — VAT inclusive  
(minimum 15 words).

**Semi display:** £7.70 (plus VAT) per single column  
centimetre.

Ring for information on series bookings/discounts.  
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).



# 01 - 437 0699

Send your requirements to:  
**Citizens Band Classified,**  
ASP LTD., 1 Golden Square, London W1

## ACCESSORIES

### WHOLESALE

Giant vans with unrivalled  
giant range of CB  
accessories. At your shop's  
doorstep regularly.  
Or come and see us.



REGULAR SECURICOR SERVICE

**TRADERS** contact us,  
reverse the charges and  
**MAKE MONEY!**

Pama House, 433 Wilmslow Road,  
Manchester M20 9AF  
Tel: 061-445-8918  
061-434-5701  
Telex: 666762

## CARDS, STICKERS & BADGES

## CLUBS

## PLANS

### Promote Your Club!

Embroidered Badges  
and Jumpers,  
T-Shirts,  
Sweatshirts,  
Bomber Jackets,  
Ties, Pennants, Hats,



For Brochure Contact

### A S PROMOTIONS

Room 31, 555 Lea Bridge Road  
London, E10 7EQ. Tel: 01-556 4810

**PERSONALISED** embroidered  
badges. Circular 3 3/4 in. dia. or  
rectangular 4 in x 2 in. Black or  
white background. Thread  
colours red, white, blue, yellow,  
orange, green or black. (No  
pictures or logos). Club name,  
league, team, etc. + your name,  
handle, etc. Suitable for any  
sport. Top quality. Washable.  
No minimum quantity. Send  
£1.80 per badge. Cheques,  
PO's, Barclaycard or Access.  
Black American style peak  
caps, £3.50 each. Binder Sew-  
ing Centre, 3 Fairfax Way,  
Deepingate, Peterboro. 0733  
40449.

**LIMA TANGO** DX Group life  
membership £2. Cards,  
stickers and lots more. PO Box  
17, Lowestoft, Suffolk NR32  
5ET.

**SURVEILLANCE DEVICES,**  
Bug Detectors, Voice, Scram-  
bler, Directional Microphone,  
Many others. SAE for list, Plan  
Centre, Old String Works, Vye  
St., Ledbury HR8 2AA.

## D.I.Y.

**DIY EXTRA CHANNELS** Roger beeps,  
musical tones, CB mods etc. Send  
stamped addressed envelope for de-  
tails. G.I.S.O. 119 Downland Drive,  
Southgate West, Crawley, Sussex  
RH11 80T

## FOR SALE

**COBRA 1489TL** DX and superstar  
360FM owners! Our latest kit gives  
you a super low and super high  
bands for only £24.99 phone the CB  
Shack Tel: 051-263 2010

### RUBBER STAMPS

Personalise your QSL,  
special designs no  
problem. Discounts for  
quantity. Two day service.  
SAE for catalogue.  
**BEN NEVIS, 42-44 Princes  
Road, Hull.**  
Tel: (0482) 48134.

**DO YOU RUN A CLUB?** Send  
£2 for sample club pack and  
we will credit you £4 off your  
first order (£18 or over). Plastic  
QSL and club cards, stickers,  
badges, wallets, etc. Suppliers  
to CB clubs for 6 years. Raymac,  
P.O. Box 75, Hounslow TW3  
2HZ.

## WANTED

**WE BUY CB RADIOS &  
ACCESSORIES.** All types  
wanted **URGENTLY** except  
antennas. Unless in quantities.  
**BEST PRICES PAID** by return.  
Postage refunded, 1 Kg =,  
£1.33 to 5 Kg =, £2.50, and so  
on. Purchase example, Mint  
Maxcom basic Radio £20.00.  
Mint Multy Facility Radio up to  
£200.00. We even pay £5.00  
for complete scrap radios.  
Quantities Purchased. Post  
now for Cash by Return to, **RE  
COMM 58** Fountainbridge,  
Edinburgh EH3 9PY. 'If you do  
not wish to accept our offer,  
return our cheque, and your  
equipment will be forwarded  
by return.'

**EYEBALL CARDS** with match-  
ing motif QSLs to your own  
design. Done in metallic hot  
foil on coloured gloss card.  
Tonbridge For details ring 0732  
354026. (Tango Polecat). B.J.S.  
Printing.

**PERSONALISED QSLs** 1,000  
£15, Handlecards £9.50. (DIY  
QSLs 100 £2.50. Handlecards  
£1.10: 100 of each £3.00 C.W.O.  
only). SASE for catalogue.  
Currie QSL's, Room 2, 89 Der-  
went St., Consett, Co. Durham  
DH8 8LT.

**GLOSSY EYEBALL CARDS**  
many colours with Gold/  
silver/coloured lettering.  
£3.70/100 including P&P. SAE  
order form and samples.  
Sharp Graphics, PO Box 3,  
Grangemouth FK3 9BD.  
(0324) 473432.

**HIGH CLASS QSL cards.** Com-  
petitive prices, free artwork.  
SAE for samples stating Ham  
or Breaker to J. S. Coates, 57  
Worrall Street, Morley, Leeds,  
LS27 0PJ.

**HAM INTERNATIONAL**  
Jumbo home base rig. Zetagi 2  
kilowatt linear. Open to offers.  
Tel: 0582 865759.

## VIDEO

### XXX ADULT VIDEO CLUB

for the genuine adult films.  
Available only from ourselves.  
Ring:  
**0924-471811 (24 hrs)**  
For the intimate details or write  
**ADULT VIDEO CLUB**  
P.O. Box 12, Batley,  
W. Yorks

## ACCESSORIES

### WHOLESALE

Giant vans with unrivalled giant range of CB accessories. At your shop's doorstep regularly. Or come and see us.



REGULAR SECURICOR SERVICE

**TRADERS** contact us, reverse the charges and **MAKE MONEY!**

Pama House, 433 Wilmslow Road, Manchester M20 9AF  
Tel: 061-445-8918  
061-434-5701  
Telex: 666762

**10-4 CB**  
The No. 1 CB wholesaler and retailer.

Sideband radios include: Cobra GTL DX, Super Star 360, Straber 9 plus President range and Ham International range.

Jumbo base station, FM radios from £25.00. Aerial burners and all CB accessories.

Mail Order Access. Barclaycard. Phone us now on

**0622 681719**

10-4, 58 Allen Street, Maidstone, Kent ME14 5AG

### RIGS & TWIGS

#### PARKSIDE CB CENTRE

Cybernet 934MHz £355.00. Uniace 400 934MHz £205.95. Gap 1/2 wave £11.95. ES880 Echo chamber £41.95. Ind. Telc. 25w linears £15.95. Zetagl B132 base linear £97.95. Breml 25w linear £16.95. Breml 3-5 Power Supply £13.95. Oscar CBM 271 (Cybernet Chassis) £49.95. Rotel RVC 240 £85.95. Harvard 410T Hand held £59.95. Maxcom 30E £55.95. RA 201 Reverb £31.00. Super Krunch £26.95. Fidelity 200 £49.95. SWR meters from £5.95. Maxcom 7E Hand held £69.95. Extension speakers from £2.95. Uniace 300 Home base £159.95. DNT B40 Home base £58.95. DNT 3 Channel Hand held £24.95. Uniace 200 £89.95. Audioline 340 £49.95.

Thursford, Fakenham, Norfolk. Tel: (0328) 77402

TA 7205 £1.50, MB 3712 £1.50, LC7 137 £2.99, MC3357 £2.99, Output Transister £1.50, Bleedover Filter £2.99, LA44 22 £1.99, LA1230 £1.99. Telephone: (0603) 46294.

QUALITY I.C.'s, transistors etc. CB Guide Book, originally £2.95, now 75p. Orders over £5 post free, other 50p. S.A.E. for lists. Cybernet—Nevada 934MHz equipment. CB patches 10p. Tower Components, 201 Freeman Street, Grimsby, Sth Humberside. (0472-360037).

#### MIDNIGHT BOARD

Channel Expansion System

Easily fitted to: uniden, audio line, maxcom, cybernet, rotel, Harrier, Harvard & many more. Prices inc. carriage & VAT

T-9 £11 each, 10-24 £7.50 each, 25-99 £6.25 each, 100 + £5 each

Send P.O. or Cheque to:

**K. T. V.**  
Stonehouse St.,  
Middlesborough, Cleveland.  
Tel: 0642 629238

#### GOLDFINGER CB

Turner mics and base mics. Quads from £69.99. Densi base mics with graphic equaliser. Avanti antennas.

32 Canmore Street,  
DUNFIRMLINE, SCOTLAND  
Tel: (0383) 739110

#### COMPONENTS

IC's  
Transistors  
**Roger D**

S.A.E. for prices of component

831 Mansfield Road,  
Nottingham,  
NG5 3GF.

#### BOOKS & PUBLICATIONS

#### SERVICE MANUALS

Ham Concorde 2, Ham multi-mode 2, Ham Jumbo 2, Ham Viking, Ham Puma, Cobra 148 GTL DX, PC 879 and PB010, Colt 1600 DX, Tristar 777, York 863, York 861.

All above at £6.00 + £1.00 p&p each.

Other rigs and spare parts available.

#### CBT

1 Prince of Wales Road,  
Swansea. (Tel: (0792) 463821.

FREE LISTS of service manuals and circuit diagrams. Write or phone for your copy today to Bournemouth Open Channel 335/7 Charminster Rd, B'mth, Dorset BH8 9QR Tel: (0202) 518766

**SPEAK EASY**  
Components at competitive prices. Send S.A.E. for catalogue. Over 1,000 top quality components covering CB, car stereos, Hi-Fi etc.

#### SPEAK EASY

141 Merry Street, Metherwell,  
Strathclyde ML1 1JP.  
Telephone 0898-53609

FOR FREE LISTS! of more than 300 LOW COST high quality components write or phone today to BOURNEMOUTH OPEN CHANNEL, 335/7 Charminster Rd, B'mth, Dorset BH8 9QR Tel (0202) 518766.

**NATO 2000 OWNERS.** Getting bleed over, cross mod images? Our custom crystal filter provides dramatic improvement in selectivity. Simple to fit instructions provided. (Also fits Superstar 2000, Tristar 777). £9.95 inclusive. Golf Communications, P.O. Box 60, Rickmansworth, Herts WD3 3PZ.

**EXPANSION BOARDS** for SSB & UK FM Rigs. Expand legal rigs by up to 120 extra channels FCC £24.95. Add UK channels and extra bands to SSB/FM rigs. From £9.95. Crystals supplied. SAE details: 16 Balnbridge Close, Grange Park, Swindon, Wilts SN5 6BD.

GET YOURSELF NOTICED — ADVERTISE IN CB! PHONE US ON 01-4370626 FOR MORE INFORMATION

#### CLASSIFIED ADVERTISING TERMS & CONDITIONS

Our terms for new advertisers (semi-display and lineage) are strictly pro-forma payments until satisfactory reference can be taken up (excluding recognised advertising agencies). Cheques and P.O.'s should be crossed and made payable to ARGUS SPECIALIST PUBLICATIONS LTD, and sent together with the advertisement to:

The Classified Dept, L/H,  
No. 1 Golden Square, London W1R 3AB

There are no reimbursements for cancellations. Advertisements arriving too late for a particular issue will be inserted in the following issue unless accompanied by instructions to the contrary.

All advertising sales are subject to Government regulations concerning VAT. Advertisers are responsible for complying with the various legal requirements in force eg: THE TRADE DESCRIPTION ACT, SEX DISCRIMINATION ACT & THE BUSINESS ADVERTISEMENTS (DISCLOSURE ORDER) 1977.

Full Terms & Conditions of Advertising Available on Request

## ACCESSORIES

### WHOLESALE

Giant vans with unrivalled giant range of CB accessories. At your shop's doorstep regularly. Or come and see us.



REGULAR SECURICOR SERVICE

**TRADERS** contact us, reverse the charges and **MAKE MONEY!**

Pama House, 433 Wilmslow Road, Manchester M20 9AF  
Tel: 061-445-8918  
061-434-5701  
Telex: 666762

**CB**  
Citizens' Band

# BREAKER BASES

### AVON

#### PATCHWAY CARS CB CENTRE

Gloucester Road, Patchway, Bristol. Tel: (0272) 694331.  
Mon-Fri 8-5.30pm, Sat 8-4pm, Sun 10-2pm.

Retail dealer stocking all types of CB and communications equipment including

CYBERNET DELTA-1, 934 and CORDLESS TELEPHONES.

### DEVON

#### AGRIMOTORS

Merton CB & Radio Centre  
Merton Garage & Post Office, Merton, Nr Oakhampton EX20 3DZ

Open 6 days 9-6  
(Sundays by appointment)

Specialists in 934MHz  
Suppliers of all 27MHz and 934MHz equipment

#### COASTAL CB AND TROPHY COMPANY

127 Old Rd., Clacton-on-Sea, Essex. (0255) 74292

Open 7 days a week 9-5pm.  
Sundays 9-12pm.

Possible the cheapest in East Anglia.

Mail order or Securicor delivery.

### HUMBERSIDE - SOUTH

#### Cleethorpes CB Centre

(Corrigans)

15 Grimsby Road, Cleethorpes.  
Tel: 0472 40703

OPEN:

Monday-Saturday 9.30 am - 6 pm

### BERKSHIRE

#### INTERCOMMS CB & TELEPHONES

Rigs, Aerials & Accessories. Repairs and conversions - crystal filters, K-tones etc.

Ascot TV Centre, Sillwood Road, Ascot, Berks.

Tel: (0990) 20234  
Agents for 934 MHz

### DURHAM

#### IAN FISHER

Communications of Stanhope  
CB Works

Bondisle Way, Stanhope, Bishop Auckland, Co. Durham  
DL13 2YT  
(0388) 628464

Distributors of 934MHz rigs also 27MHz rigs and repairs. Coaxial cable. Base station antennas + mobile antennas. + all accessories.  
OPEN MON-SAT 10.30am-6.30pm

### GLOUCESTERSHIRE

#### RIGS & TWIGS

A Division of D.E.S.

(Established 1978)

Block 38, Upper Mills Estate, Bristol Road, Stonehouse Glos.  
Tel: Stonehouse 6710

Junc. 13, M5. Stroud exit. First right past 'the Ship Inn'

Open: 9-5 Mon-Sat.

Sales/Repairs/Mods  
Plus: QSLs/Eyeball cards,  
P.O. Box Facility.

The most complete C.B. Centre in the Country

### KENT

#### IMAGEFREE

#### COMMUNICATIONS

1-3 Station Road, Rainham, Kent  
Tel: Medway (0634) 373960 Ext. 2

Open 7 days a week.

Stockists of 27MHz 934MHz and P.M.R. Reflec. Nevada, Cresbyte.  
Mail Order Available.

### HAMPSHIRE

**BREAKERS  
WORLD**  
2 High St., Bordon, Hants.  
Tel: (04203) 4684

Open 7 days a week  
Fully equipped workshop

MON-FRI - 10.30-6.30pm.  
SAT - 10-6pm, SUN - 10.30-1.30pm.

### BUCKINGHAMSHIRE

#### VANNER C.B. CENTRES

3 Croft Court, Stony Stratford, Milton Keynes MK6 5RH

34 Gloucester Avenue, Northampton NN6 7QD  
9.30-5.30 Closed Thursdays

Mail Order  
Access/Barclaycard

### ESSEX

#### CB RADIO & MODEL HOBBIES

Parndon Mill, Parndon Mill Lane (next to rugby club), Harlow.  
TELEPHONE: 0279 418617

Open: Mon-Sat 9.30am-6pm  
Sundays 10am-12am

### CAMBS.

#### Tower Communication

Everything for the 27MHz & 934MHz C.Ber. Radio Amateur or SWL.

★ First Class Sales & Service ★  
11 High Street, Haddenham, Cambs.  
Tel: Ely (0353) 740306

#### WOODFORD CB CENTRE

528 Chigwell Road, Woodford, Bridge, Woodford Green.  
Tel: 01-504 9652

Open Mon-Sat 10-5pm  
Large range of CB equipment.

### HERTFORDSHIRE

**934MHz 27MHz**  
Largest selection of Mail Order Service  
CB Equipment

Communications Centre  
37-39 Station Road, Rickmansworth, Herts WD3 1QP.  
Tel: (0923) 775577/770634  
Mon-Sat 9am-6pm  
Wed 9am-1pm and 3pm-6pm

#### FABULOUS PHONES

CB & Telephone equip suppliers  
72 High Street, Orpington.  
Tel: (0689) 74051

Open: Mon - Sat 9am - 5.30 pm

10, North Street, Strood, Kent.  
Medway (0634) 716422

OPEN 6 DAYS

For All Communications Equipment Including CB, Amateur/Commercial and Marine

Call us for details of our Mail Order Service

## ACCESSORIES

### WHOLESALE

Giant vans with unrivalled giant range of CB accessories. At your shop's doorstep regularly. Or come and see us.



REGULAR SECURICOR SERVICE

**TRADERS** contact us, reverse the charges and **MAKE MONEY!**

Pama House, 433 Wilmslow Road, Manchester M20 9AF  
Tel: 061-445-8918  
061-434-5701  
Telex: 666762



# BREAKER BASES

### KENT

**ONE STOP ELECTRONICS**  
126A Meldstone Road, Rochester.

Tel: 0634 400179

The shop for the sale & servicing of all radio communication equipment. Components available. Open 7 days a week.

### MANCHESTER

#### CBR ACCESSORIES

299A Oldham Rd, Middleton, Manchester M24 2JG

Tel: 061 853 2508

Open: Mon-Sat 9.00-5.30

For all your CB requirements, sales & service. D.T.I. approved distributors and service agents for Burndopt Electronics.

Communications equipment, P.M.R. Hand portables, mobiles and base stations.

**BUY — HIRE — LEASE**

### MIDLAND RADIO CENTRE

Specialists in all types of Radio Communications.

133 Flaxley Road, Stechford,

Birmingham B33 9HQ

Tel: 021-784 4928

CB, Taxi, Ham, Cellular Phones

Open: Mon-Sat 9-5, Sun 11-2

### NORFOLK

#### B A YEOMANS & SON

65 North Walsham Rd., Norwich, Norfolk Tel: 46294

Discount CB/Anything electrical. Savings just a phone call away. Used CB bought and sold. **CB REPAIR SPECIALISTS**

### LINCOLNSHIRE

27/934MHz CB  
LINCOLNSHIRE AGENTS FOR NEVADA 934



Come and see us at Miller Telecommunications The Parade, Cherry Willingham, Lincoln. Tel: (0522) 754279

(24 hour answering service. Free parking for up to 60 cars)

### BUFFALO BILL

CB Radio & Accessories

100 Walford Rd., Sparkbrook Birmingham 11 021-772 2066

SAE for list of our Extensive Range of Mobile & Base Antenna

**OPEN 6 DAYS 10-6**

### NOTTINGHAMSHIRE

#### FRANK GODFREY AERIALS

Tel: 09094 72829  
24-26 Ryton Street, Worksop 934 MH2

Telephone for special offers 27 MHz - most CB equipment stocked.

### LONDON

**ALPHA'S CB CENTRES**  
224 Balaam Street, London E13

Tel: 01-471 5589

Open: Mon — Sat 9am — 7pm  
Sunday 10am — 2pm

ALSO

EX ZULU/ONE/FOUR,  
132 Leytonstone High Road, E15.  
Tel: 01-555 8045. Open: Mon-Sat 9am-5.30pm.  
T/A Balaam St. Motors

### CENTRE BASE 1

Full Range of CB Accessories & Equipment in Stock

#### NEW STOCK

Latest range of 934MHz Rigs, Aerials & CB accessories

NEVADA - COMMTEL LES WALLEN ETC

433 Wilmslow Road, Withington (opp Library)



Tel: 081-445 8918  
081 434 5701

### HEWARD'S HOME STORES LTD (Established 1963)

822/4 Kingstanding Road, Birmingham B44 9RT.

Tel: 021-354 2083

G4RJM with 38 years in The Radio Trade Ham Equipment urgently wanted Open: Mon-Sat 9-6

**WE WELCOME ALL CB'ers**

### OXFORDSHIRE

#### MODULATIONS COMMUNICATIONS

82 Wootton Road, Abingdon, Oxon. OX14 1JD

Tel: 0235 - 21400  
Open: 6 days Mon-Sat 9-5.30

Instant credit facilities. Agents for 934 MHz Wholesale, Retail and MAIL ORDER  
Send £1.00 for catalogue.



### HENRY'S

934MHz and 27MHz CB and accessories catalogue S.A.E.

404 Edgware Road, London W2 1ED  
01-724-0323

Open 6 days a week

### WEST MIDLANDS

#### SQUARE WHEELS BIRMINGHAM'S LARGEST CB SPECIALISTS

\* appointed Birmingham's Cybernet 934 stockists  
\* appointed K.S. Services expansion engineers.

24 HOUR FM RIG REPAIR SERVICE BY MAIL ORDER, £15 INCLUSIVE  
82 EDGEWOOD ROAD REDNAL, BIRMINGHAM  
Tel: 021-460 1581

### MERSEYSIDE



PHONE US FIRST 27+ 934 now in stock

Speedy Repair Service. All leading brands in stock. The Mobil Garage (opp the Grafton Rooms), West Derby Road, Liverpool 16. Tel: 051-283 2010

### SOMERSET

#### YOUR SOMERSET BASE STATION

The Triangle, Caiafe Cary, Somerset (0863) 60433

Large selection of rigs, cordless phones, extension phones and accessories. The best and cheapest in the West! Open 6 days. Easy parking. 9am-1pm, 2pm-5.30pm.

ACCESSORIES

**WHOLESALE**

Giant vans with unrivalled giant range of CB accessories. At your shop's doorstep regularly. Or come and see us.



REGULAR SECURICOR SERVICE

**TRADERS** contact us, reverse the charges and **MAKE MONEY!**

Pama House, 433 Wilmslow Road, Manchester M20 9AF  
Tel: 061-445-8918  
061-434-5701  
Telex: 666762



**BREAKER BASES**

**SURREY**



**GUILDFORD CB**

Surrey's biggest stockists of CB equipment and accessories

Low prices, technical know-how. Repairs, 934 and Amateur. Cobras and Yaesu wanted.

34 Aldershot Rd., Guildford GU1 4JZ

**SUSSEX**

**BRIGHTON COMMUNICATIONS**

Open 7 days a week

Mon-Fri 9-6-Sat 10-5.30-Sun 10-3

We offer repairs on all equipment.

Phone now for best prices.

Tel: Brighton 563177/506279

20 Clermont Road, Preston Park,

Brighton, Sussex

Mad order service. Access/Visa

**SCOTLAND**

**GOLDFINGER CB**

Beech Wood

Blair Forge

Blairadam, Kelty,

Fife, Scotland.

Telephone: 0383 739110

**WALES**

**CAERPHILLY CB CENTRE CB**

Rigs 55 Van Road, Caerphilly, Mid Glamorgan.

Tel: 0222 882450

Easy parking. 10am-1pm, 2-15pm-6pm

6 days. Keen prices. All accessories.

Good service by Rtg Doctr

**CB CENTRE**

20C Selsdon Road, St. Croydon.

Tel: 01 - 680 4503

All CB equipment available.

Good repair service. Telephone

equipment and answer phones.

Car telephones and cellular.

**OPEN:**

9.30am-6pm Monday-Saturday.

**STAFFORDSHIRE**

**C.B. CENTRE**

359 Glascoate Road,

Tamworth.

Tel: (0827) 65902

We are on the B5000 Road.

Look for the C.B. sign.

Open 9.30-5.30

Closed Wednesdays & Sundays

ACCESS VISA

**SUFFOLK**

**MARSHION ELECTRONICS**

366 Spring Road, Ipswich, Suffolk.

TEL: Ipswich (0473) 75476

Open: 9.30-6.30 Tues-Sat

CB 934 and electronic

components

WHY NOT TRY US FIRST?

**YORKSHIRE**

**LEN BERRY ELECTRONICS LTD.**

We monitor channel

0723-373914

or eyeball at:

147 VICTORIA ROAD,

SCARBOROUGH,

YORKSHIRE

**SUSSEX**

**The C.B. Centre**



Inrange Ltd, 8 Marine Court, St. Leonards on Sea. Tel: Hastings (0424) 443185/442025

Open: 7 days. Mon-Sat 9.30-6.30 Sun 11.30-2.30. Retail & Wholesale

**SCOTLAND**

**INTERNATIONAL COMMUNICATIONS**

58 Fountainbridge Edinburgh

EH3 9PY

CB Radios from £25 to £250

SAE for free list. £3.00 for radio

catalogue. Refunded on purchases

over £35. Business Professional 2 Way Radio

Systems from £195.

**CLASSIFIED ADVERTISEMENTS - ORDER FORM**

Please use BLOCK CAPITALS and include post codes.

Name (Mr/Mrs/Miss/Ms) .....

Address (delete accordingly) .....

.....

.....

.....

Signature .....

Date .....

Daytime Tel. No. ....

All payments to:-  
A.S.P. Ltd., and send to:-  
C.B. Classified,  
A.S.P. LTD,  
Golden Square,  
London W1


### TAGRA MOBILE

**MODEL** : K-120  
**Type** :  $\frac{1}{4}$  wave  
**Impedance** :  $50\Omega$  approx.  
**Frequency** : 27 MHz  
**Polarisation** : Vertical  
**S.W.R.** :  $<1.25$   
**Net Weight** : .38 kg  
**Length** : 1.54 metres  
**Material** : Stainless Steel  
**Max Power** : 250w  
**Connection** : U.H.F. Coax

### TAGRA BASE

**MODEL** : BT 104  
**Type** :  $\frac{1}{4}$  wave  
**Impedance** :  $50\Omega$  approx.  
**Frequency** : 27 MHz  
**Polarisation** : Vertical  
**S.W.R.** :  $<1.2$   
**Net Weight** : 5.5 kg  
**Length** : 8.21 metres  
**Material** : Cast Aluminium  
**Radials & Fittings** : Heavy gauge gold anodized aluminium  
**Max Power** : 2000w  
**Connection** : U.H.F. Coax

### TAGRA MOBILE

**MODEL** : DV 27  
**Type** :  $\frac{1}{4}$  wave  
**Impedance** :  $50\Omega$  approx.  
**Frequency** : 27 MHz  
**Polarisation** : Vertical  
**S.W.R.** :  $<1.25$   
**Net Weight** : .44 kg  
**Length** : .665 metres  
**Material** : Stainless Steel  
**Max Power** : 40w  
**Connection** : U.H.F. Coax



