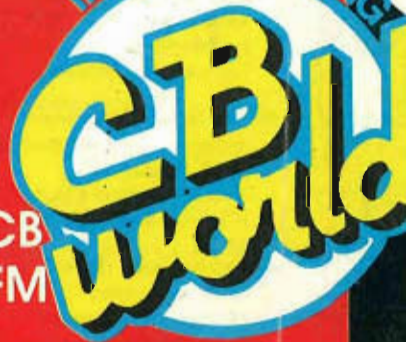


CB Citizens' Band

Britain's Leading CB Monthly

INCORPORATING



SPECIAL ISSUE TOP TEN

A round-up of Citizens' Band's choice of the top ten rigs'n'twigs

CB ABROAD

The do's and don'ts for your CB holiday

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TOP 10

- 1 Magpie Autoscan 5000CB
- 2 Radio Technic DNT M40FM
- 3 Cybernet Range
- 4 Uniace 100-200
- 5 Fidelity 2001
- 6 K40 Mobile
- 7 Armstrong TAK10 Mobile
- 8 Bullwhip Mobile
- 9 ThunderPole MkII Base
- 10 Starduster Conversion



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RIG**

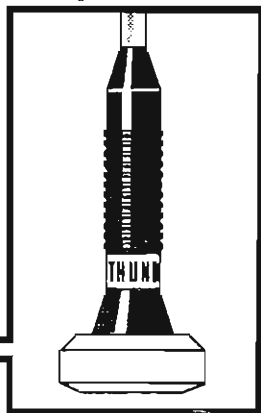
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Cliff Wilson

CB

Citizens' Band

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ABC

Cover this Month

Top of the heap — best of the bunch —
King of the hill — which reminds me.

Two Kurdish tribesmen were crossing the desert when their camel stopped, refusing to go any further. The men dismounted and began to push from behind with all their might — but to no avail.

Whilst they struggled the sound of music began to waft over the distant sandhills and a brass band came in sight, playing 'Sahara-boom-de-ay!'

When the band reached them the men explained their predicament, and the trombonist — who happened to be a fellow-tribesman — had an idea. 'You push and I'll play,' he said.

The men agreed, and whilst they sweated and swore and pushed the trombonist played until he was blue in the face. Suddenly he played a bum note with such fervour that the startled camel snorted and leapt into action!

This all goes to prove that *A KURD IN THE BAND WILL TURN BLUE AT A PUSH!!!*

Bob Shelcot

(see p6. for other competition winners)

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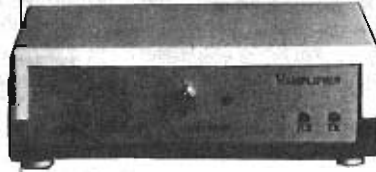
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The Western Rotator is sturdy enough to turn any beam you might put on it and comes complete with its own control unit.

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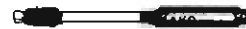
HNF2



This is a standard TV1 Filter with the braid break filter. Tuned to reject CB signals and will provide better rejection in the more difficult cases of CB interference.

£7²⁵

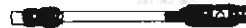
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UPDATE

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

Well June seems to be as good a month as any for a change and a big change it will be. While I will still be poking my oar in from time to time it will be up to Kevin Whitchurch — long time assistant editor of CB — to see that your monthly feast of fun, news and informative comment is laid at your door. I'm moving over to CB's sister magazine *Video Today* — any of you breakers with a video — see you there.

Over the past months it have become increasingly clear that CB in the UK is far from dead. The Magpie Autoscan, the EMS Mercury, and a new rig from Maxcom and the ever growing interest in 934MHz more than proves this to be so. But, by and large the future of Citizens' Band Radio Service is firmly in the hands of the CB user.

Misuse of CB in any guise and for whatever

reason will only serve to put prospective users off. Any breakers or so-called breaker who interferes with other users through one silly ploy or another will only serve to make the whole smaller and less significant. Bit like sucking a Polo mint really — all that will be left is a hole that nobody wants!

It is my firm belief that all of the time the powers that be are aware of the monstrous misues to the present service are being perpetrated then so much less is the likelihood of any real improvement in specifications for CB in general and antennas in particular. All of the time responsible CBers allow the infringements to occur then so their case is weakened. Government will not take CB seriously and, I suspect, secretly will be pleased to see the system fail. No good asking for eighty channels

when the forty we have are not being used properly.

The monitoring services such as REACT and THAMES do a sterling job and deserve your support — they represent the very serious side of CB. Wallys and channel hoggers represent the other end of the spectrum. Somewhere in the middle are the majority who use CB as a true two-way communications system in the general way that was intended.

In whichever role you see yourself — think about it carefully. Think about how you want to see it develop and act accordingly.

Thanks for all your friendly letters and phone calls — especially to those many junior breakers who wrote to me. And so to *Video Today* but still with my ears to the CB scene.

Chris Adam-Smith



Fidelity Phone-In

Fidelity are first in the field with a legal cordless phone. The 'Wanderer' will be in a number of retail outlets during May and will cost you a cool £170. The principle is exactly the same as the cordless phones we have been reviewing of late in *Citizens' Band* with the important difference that the Wanderer operates on a frequency approved by British Telecom.

It consists of a mains operated base unit for connecting to a phone jack and a handset with push button dialling pad. The pad features a memory for the last number dialled and a redial button. A safeguard is

built into the machine to ensure that a naughty neighbour, who also may own a Fidelity, cannot have his calls charged to your account — an account that is bound to grow as you phone up all of your friends to tell them of your new acquisition.

A range of 200m — 600ft — is claimed and of course you can use it in all of those places which you have always wanted to make a phone call from. The bath, garden shed or up on the roof.

If you have trouble finding the Wanderer than contact Fidelity Radio Limited, Victoria Road, London NW10 6ND or ring 01 965 8771.

CAS

Country Music

Cancel all previous plans you had for August Bank Holiday — the Peterborough Country Music Festival is on and you *must* be there. It runs from Friday August 26 to Monday August 29 featuring some 55 artists from Britain and Europe with major stars from the 'Grand Ole Opry', Nashville, Tennessee.

The Festival is being staged in a giant circus big-top with 5000 seats, with trade stands, day-long entertainment in the ring, all offered totally free to you. There'll also be a carnival parade through the city centre.

If you want details of the Festival write to The Peterborough Festival Of Country Music Ltd., Folksworth, Peterborough, PE7 3SS or telephone (0733) 241789. When writing please enclose a SAE.

KW



Ice

Fancy a change from copying in the car? Why not listen to the car radio for a while? There are quite a few to choose from including a new one from Hitachi.

The new Hitachi CSK-440 is a radio/cassette combination using micro-computer control for its tuning. There's a 3-band radio with an LCD clock and frequency readout. The

tuning, using the micro-computer, is automatic.

On the cassette side there's automatic switching so you don't have to turn the tape over, and Dolby noise reduction. The CSK-440 is available now at Hitachi dealers priced around £205. Details from The Sales Manager, ICE Division, Hitachi Sales UK Ltd., Hitachi House, Station Rd., Hayes, Middlesex, UB3 4DR.

Competition Results

Never let it be said that CBers are dull and lacking in a real sense of humour. Entries to the Funny Story Competition poured in. For those who have forgotten, the object was to bring new life and meaning to: *'A bird in the hand is worth two in the bush!* And many of you really did! It was without a doubt the toughest judging job that I have had — so much effort went into it that all of you should win — alas there can be but one! Before I name the lucky winner let us browse through some of the very close runners up.

There is *B. Johnson* of Salisbury who got stranded by the tide and was unable to reach two bits of driftwood in the surf but found a strong board on the beach: *'A board in the sand is worth two in the gush!*

Dave Mildren of Taunton who heard about some South American breakers who found that a certain liquid, when smeared onto an antenna, increased the CB range. After a long bus ride up the mountains he obtained a tube of the stuff

only to have it stolen and its contents wasted by a bus bound wally: *'A berk in the Andes squirts tube in a bus!*

Billy Dunne from Essex sent in a cracker about a brass band and a bad musician who was not permitted to have any say in the band's future. One day after the conductor became intoxicated he took over and received a cream cake in the face for his troubles. Still, it all turned out right in the end and as a 'thank you' he was allowed his say: *'A word in the band is worth goo in the mush!*

The two that finally went into the CB hat were from *Derek McCorkell* of County Antrim and *Bob Shelcot* of Suffolk — and Bob's was the one drawn. His effort features on this month's inside cover front and the prize is on its way. Derek? well *Knight Communications* didn't think it right for you to be without a reward and a smart bit of equipment is on its merry way to you. I hope, at a later date, to publish your excellent entry.

CAS

Callsaver

Got £1500 to spare? Well, if you have you *could* spend it on the British designed and built Airphone — a telephone which operates from your car. When installed in your car, with a unit under the seat and the handset next to it, callers can phone direct and you can call out in exactly the same way as you do at home — and still pay the normal dialling charges.

For your £1500 you get three items — the handset and unit for the car together with a base unit that should be installed at your office or home. The quality of the phone is said to be superb and free of interruption — so it should be for the price! By the way, you get free base and mobile aerials. Details from Callsaver, 3 Caledonian Road, Kings Cross, London N1 9DX or call 01-278 5187.

KW



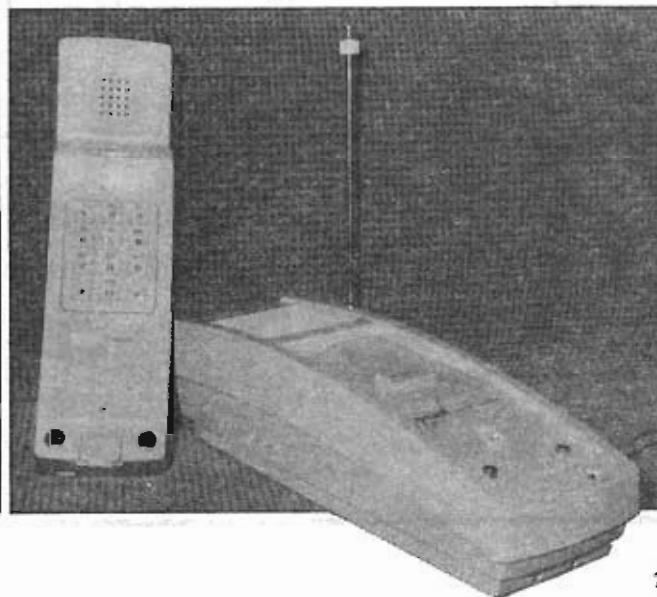
Further Phone Fun

More cordless phones! This time it's the prototype of a legal one from Maxon, and it marks the formation of the European branch of the company.

Maxon was formed in the early seventies and initially concentrated on RF products. Since then they've turned into one of the world's largest manufacturers of CB rigs,

cordless phones and Private Mobile Radio equipment — they now produce 2.9 million units a year. The latest news is that they are branching out into conventional phones, a telephone VDU, two more legal cordless phones and telephone answering machines plus a range of UHF and VHF mobile radio equipment. Watch these pages for the latest update!

KW



THE G.A.P. AVENGER

Legal homebase Antenna

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

The AVENGER will solve ALL your problems!

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

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

- * The AVENGER is easy to fix, on a wall bracket or mast top.
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- * Cleverly end supported giving additional height.
- * Minimum line current due to shielding of coax in the "ground plane".
- * Impedance... 50 ohms.

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

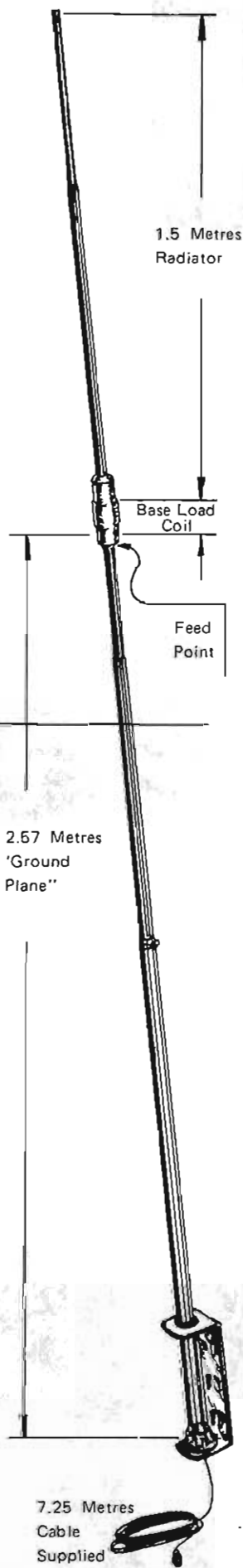
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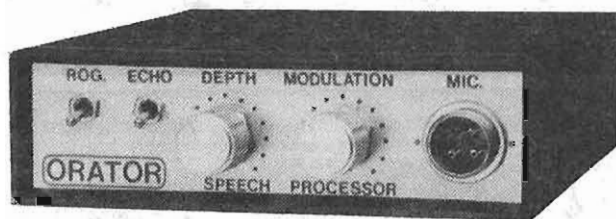
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carried in the reference section because it is a CB antenna that was available and, probably still is, at one CB shop or another. It may well prove to be a hard search but I have no doubt that a Stingray is sitting around on a shop shelf somewhere . . . anybody out there how exactly where?

SA

CB Abroad

D. Wheeler of Dartford in Kent wants to know . . .

Q Could you tell me if CB is legal in France and Spain as I am driving through on my holiday and have a legal FM set. Can I use it?

A You will find all the answers to your question plus many more in the Andy Giles article in this issue. Still, you asked me . . . France and Spain operate different frequencies to those in the UK. Your set and your use of it would be illegal in those countries.

SA

Boating CB

David Sloan from Glasgow is another water bound breaker and has some questions on antennas.

Q I see from your column that you use CB on a boat. I wish to do the same. My boat is a GRP hulled 19ft. sloop with an aluminium alloy mast. The only places where I can mount an antenna would be the top of the mast or on the stainless steel pulpit rail. Do you know of anybody that markets a suitable antenna for the mast without a groundplane?

A I mount my antenna - a Halfbreed - on the pulpit rail using a quick release mount and an antenna matcher. I find this works very well if using a mobile rig. Handier and less trouble is the Realistic 1001 hand held. I get very good copies on this just using its built-in telescopic antenna which is a full 1.5m. Rather than use batteries, the set is plugged into the boat's cigar lighter and run off the battery. Both set ups are fine for CB talk - boat to boat or boat to shore.

Lady Line were, over a year ago now, going to bring out a CB especially designed for use on the water. This may or may not happen but, at that time they were also advertising Shakespeare Antennas to be used in conjunction with the rig. They are a well-known firm and there probably is an outlet in your area. If not then look in one of the boating magazines - but still buy Citizens' Band! Have a good summer and please, don't rely on that CB to save your life - it is no substitute for Marine VHF.

SA

Antenna Planning Permission

And so to a letter from Ian Smith of Burnham-On-Crouch who is thinking ahead.

Q I am considering setting up a home base with an antenna on the roof. I am a little concerned as to

whether I should first have permission from the local council. Can you advise?

A If you use a fully legal antenna with the base of the loading coil no more than 7m above ground level then you should have no worries - no worries that is, unless your particular local authority has special by-laws. If you go higher than that you will have to bring your attenuation switch into use and put out less power. If you live in a semi-detached house you might save any neighbour problems - you are thinking ahead aren't you? - if you site the antenna as far away as possible from any TV aerials on the roof. In any event try to place it behind the telly twig - so that the TV antenna is facing away from your twig. Happy CBing!

SA

Busy CB . . .

Oh dear! Here is a very tricky question from Kingfisher in Buckinghamshire . . .

Q There is a growing problem that is plaguing the breakers in my area.

There are two taxi firms that are using CB for business purposes and, according to the HO, this is not illegal provided that they do not solicit business.

With some 27 taxi firms in the area and the thought that they may all realise, sooner or later, that CB is much cheaper than a radio telephone system they may all jump on the bandwagon to the detriment of the already over-subscribed channels.

It is also quite evident that the base station is being helped a bit by a burner. Your comments on this subject would be much appreciated.

A Bet they would Kingfisher - but it is very tricky as I have already said. Not only cab drivers but many other groups are becoming aware of the value of CB as a cheap communications system - hence the rise of interest in Sel-Call units. More and more people on so few channels is bound to cause problems but the short answer is that HO is right.

It is a bit of a selfish act if, what you suspect is right, and they are using a burner. That, the HO do not approve of and the firm can be reported.

Your comments regarding security I have not published - too many people may not have thought of it and I don't want to put ideas into the heads of those who might take advantage of it. It is an interesting thought and I would suggest that being a responsible CBer, a word with your local crime prevention officer might be well received.

SA

To TVI Or Not To TVI

Two questions on TVI and upset neighbours. One from Marshmellow in Rochester and another from B. Edge in Hull - two minds with but a single thought.

Q I have a fully legal set up - Midland 2001 and a DV27 twig -

and I get annoyed when my neighbour bangs on the door in the middle of a ratchet and complains about TVI. What can I do about this as even a filter does not work? Has he the right to tell me to switch my rig off?

A Mr Edge has a similar question Marshmellow - and I guess the answers are the same too. You say that your set up is fully legal yet you are using a DV27. Not quite true is it? If you are upset at his interruption of your ratchet how do you think he feels when you interfere with 'Match of the Day'?

The real point is that viewers and breakers each have the right to enjoy their chosen pastimes and the absolute right to protest if that freedom is being interfered with. If you are using any illegal equipment then there is the distinct possibility that you will be closed down. A filter on the TV as well as one on the rig may help and could be a worthwhile investment. Effort counts a lot!

If you are using fully legal equipment and are licensed to do so then it is difficult to see how any authority could stop you from using CB. Sometimes with old TV equipment it is the fault of the set and nothing that the CBer does will make it any better. In such a case the onus must be on the owner of the TV.

As for Mr. Edge's 18 foot antenna - all I can say is you must have a pretty big loft!

SA

Rubber Ducks?

Next question from James Ferguson from up there in Lanarkshire.

Q I have a Harrier WT2 40 channel hand-held and I get some very good results from it. However, the 1.5m antenna is a bit unwieldy for use in the house. Will any of the rubber duck type of antennas on the market which clip on to the top of the closed antenna damage the set in any way?

A No, most rubber ducks are pre-tuned and perfectly OK with portables. I would only suggest to you that you purchase a good branded 'duck' and that you read the packaging carefully to insure its suitability. One other point James, don't expect such good copies with your rubber duck especially when used indoors. They are handy things to have and certainly safer when eyeballs are at risk but I do not believe them to be any real substitute for a full 1.5m telescopic antenna.

SA

Keep your questions coming but - Please, please do not enclose stamped addressed envelopes . . .

Problems should be sent to
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145 Charing Cross Road
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ASI2 18 12.6V 18A

PSI42.5 5P 14V 2.5A

LPS 154D - 0P 15V 4A

LPS154 0P 15V 4A

PSI4 6 5P 14V 6A

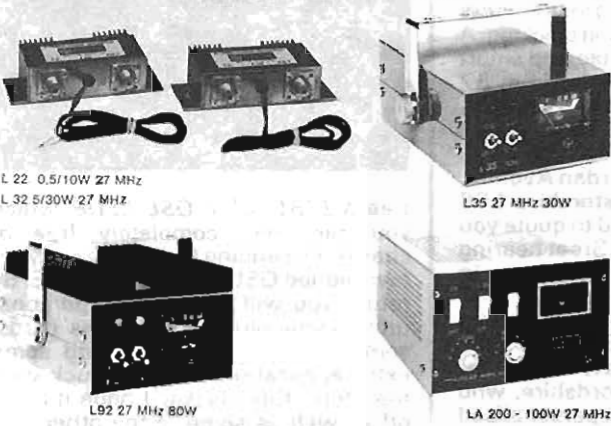
PSI512 10P 15V 12A

LPS 25.4 - 0P 25V 4A

PG 77 - 2P 15V 2.5A

PSI525 5P 15V 25A

LINEAR AMPLIFIERS



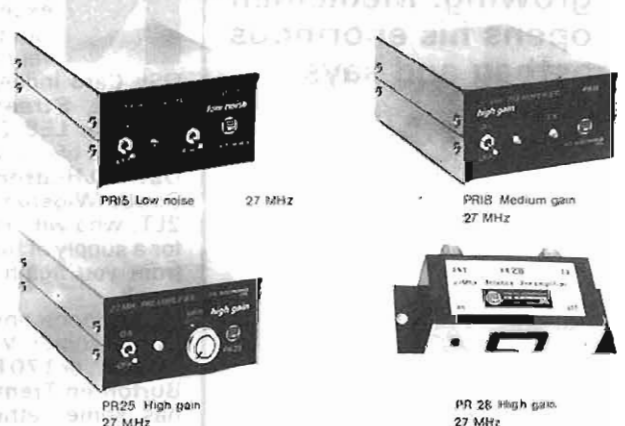
L 22 0.5/10W 27 MHz
L 32 5/30W 27 MHz

L35 27 MHz 30W

L92 27 MHz 80W

LA 200 - 100W 27 MHz

PREAMPLIFIERS



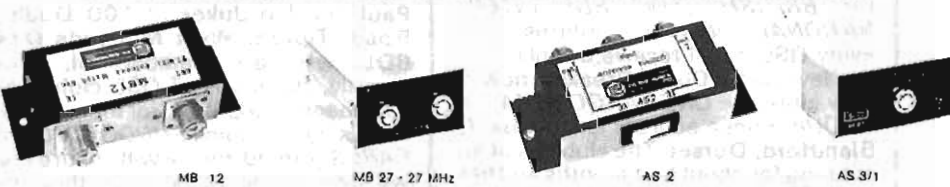
PR15 Low noise 27 MHz

PR18 Medium gain 27 MHz

PR25 High gain 27 MHz

PR 28 High gain 27 MHz

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MB 12

MB 27 - 27 MHz

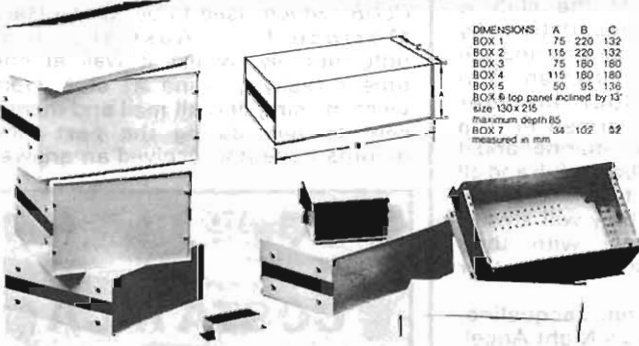
AS 2

AS 3/1



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A B C

BOX 1 75 220 132

BOX 2 115 220 132

BOX 3 75 180 180

BOX 4 115 180 180

BOX 5 80 95 136

BOX 6 top panel inclined by 13°

size 130 x 215

Maximum depth 85

BOX 7 34 102 52

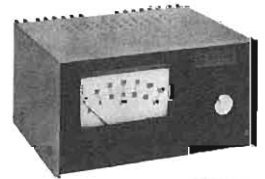
measured in mm

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COMMUNICATION THE

QSL

WAY

Nice to hear from our old friend, Ken, the Stream-fisher, who sent one of his excellent, glossy new cards with gold blocking. A very collectable and smart QSL Card indeed. Ken fairs from 57 Bassett Street, South Wigston, Leicester LE8 2PE and sends us an example of one man's beautiful work, David O Hudson of 8 Jordan Avenue, South Wigston, Leicestershire LE8 2LT, who will be pleased to quote you for a supply of his cards. Great hearing from you again Ken, please keep in touch.

Someone anxious for a QSL swop is newcomer Valerie Steptoe, Pink Panther, of 170 Riverway, Measham, Burton on Trent, Staffordshire, who has some rather nice personalised cards and is a member of the SANDCASTLE QSL SWAP CLUB and the BRITISH CONCORDE INTERNATIONAL. Valerie confirms that every QSLer will receive a reply.

News in for Dorset Breakers now, a new club, the ONE TANGO-LIMA DX GROUP whose address is PO Box 7, Blandford, Dorset. The club has been running for about four months and has over 50 members, 25 of which are international, ranging from Beirut to Brazil. Membership of the club is restricted to recommendation by existing Tango-Lima stations and the new member must have an SSB Transceiver. The four member committee has been formed to help run the club in a proper manner and it is stressed it is a members' club and all proposals will be put to the vote. It is not a swap club, but they will always QSL 100%, not only with their personal cards but also with the rather dramatic club card.

Next letter was from Jacqueline, known to most of us as Night Angel. Jackie has been into the QSL scene for many months and consistently sends a very good club package. She has always been threatening to start her own club, and I am pleased to tell you that she has now formed the new



free METRO CITY QSL CLUB which you can join, completely free of charge, by sending five or more of your own signed QSL cards and an SAE. By return you will receive your personal unit number plus five members' cards, some of their own cards and some extra applications. Best of luck with the Metro City, Jackie, I hope it takes off as well as some of the other free clubs.

Had a very interesting letter from Paul and Lin Jukes of 100 Dudley Road, Tipton, West Midlands DY4 8DL, who are members of, quite literally, hundreds of QSL clubs and have been into QSLing for many years. Paul is having some SUNDOWN CLUB CARDS printed and he will ensure that we have some as soon as they are available. He does bring up the old question of the SWAGMAN'S QSL CLUB, which used to be run by Gary Morrosoff in Australia but, unfortunately, whilst it was at one time a really genuine A1 club, Gary went missing and all mail and money sent to him during the past nine months have not received an answer



or have have been returned to the senders. I give you fair warning therefore that should you see anything to do with the Swagman Club, please, at this stage either destroy it or retain it until such time as we trace what is happening to our fellow QSLers mail over in Australia. I do understand that various investigations are taking place by Victoria Police into the misadministration of the Swagman — so please pass the word around so that others do not fall into this trap and lose their money. We thank Paul for bringing this to our attention.

Paul also writes to tell us of an amusing situation which has arisen in Germany whereby there is a great influx of pirate CB sets to Germany from Great Britain, working the British FM frequency — which is rather a reversal of the situation we had with the old American AM frequencies. Since Germany will only allow their CBers some 12 channels on half a watt, it is hardly surprising that their keen CBers are going to look for a



slightly better system that offers them readily available equipment with a 4 watt output and some 40 channels. Quite a funny turnaround — perhaps there is a lesson to be learned here for HM Government inasmuch as we need far more channels on CB in this country.

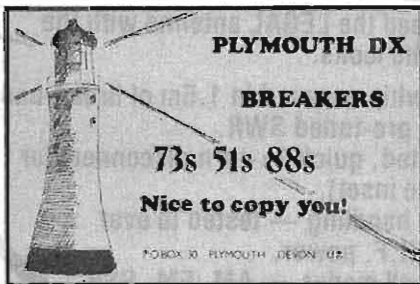
Quite a selection of cards in from Bill Pound, the Gudgeon of 3 Heath Drive, Binfield Heath, Henley on Thames RG9 4LX, who QSLs with some D. Currie cards and has various other personalised cards for his handle. Quite an interesting collecting of cards there Bill, thanks very much and nice to see you will QSL all who write to you 100%.

Up to Scotland now to meet George, who writes from 47, Bridge of Weir Road, Linwood, Renfrewshire, PA3 3DS. He is a newcomer to QSLing and sends some very attractive picture postcards of Scotland and a very collectable club card of the LANARKSHIRE RADIO NETWORK in Scotland. George will QSL 100% and he is looking to build up a large collection — so any floaters or scatter cards you have would be appreciated by George. Another letter from up in Scotland from Andy Knott of 5 Vancouver Avenue, Howden, Livingston, West Lothian, who tells us that, following of a visit from Buzby, he has decided to go strictly legal FM, which of course is a sensible thing to do if you don't want to lose all of your equipment. He has taken up QSLing in order to reach the places that his CB

can't reach now. He uses a very nice QSL card and confirms that he will reply to each person who QSLs him. That's all for Scotland for this month and we now move to Ireland.



No mention of Irish QSLing would be complete without a letter from Malcolm Fisher of Aughnish, Ramelton Co. Donegal, who sends, as usual, a huge pile of cards and a complete printout of some of the very unusual QSL swap clubs that he belongs to and Malcolm is always good for a very nice QSL package with some unusual club cards — some of which include the ARTEQUERA QSL SWAP CLUB of Malaga, Spain, the ALPHA TANGO ITALIAN RADIO CLUB, THE IRISH ROVER QSL CLUB, THE ANTRIM COUNTY SIDEBANDERS — to name but a few. You can guarantee any QSL to Malcolm will be well rewarded. A magnificent, well-padded QSL pack from Les Kidney of 18 Richmond Court, Bandon, Co. Cork, Eire who sends quite a few picture postcards of that very beautiful country, lots of small pin flags and tells us, amongst other things, that no amount of QSL cards is too large or too small, he loves them all. So a QSL to Les — who goes under the handle of Rasputin — they would be gratefully received.



Over to Wales now for a letter from Bill Cummins of 153 Margom Road, Port Talbot, S. Wales, who QSLs with a very colourful QSL of the MAESTEG & DISTRICT RADIO CLUB, which is a must for all club card theme collectors. Also in from Wales from Blue Dun and Lady J alias Duncan and Joyce of 8 Ynglas Crescent, Glyneath, W. Glamorgan, some nice QSL cards and a promise of a 100% return. News also from Wales of another free QSL Club. This one is the HI FLYERS DX AND QSL SWAP CLUB run by Tony and Gary of 428 Cowbridge Road West, Ely, Cardiff CF5 5BZ and membership is just five of your signed and completed QSL cards plus one picture postcard of your town or city sent to them with an SAE. A nice club package including some tourist

information, various members' QSL cards and club applications forms are all included in this rather attractive package.

On to the overseas mail now and one address that has become very popular of late is that of the Mermaid at PO Box 77, 8500 Grenaa, Denmark and, I am rather surprised at the amount of good QSLing that comes from this box number. A QSL addressed to Brian at the PO Box will no doubt bring a very attractive QSL for you. Next we have some information in from Vernon Ferguson, the Founder-President of the UNITED STATES OF TEXAS QSL SWAP CLUB of PO Box 183, Henderson, Texas 75652, USA who runs a rather nice QSL club over there in the States and for a membership of just seven dollars, can offer a very attractive club package. However, should you wish just to QSL we are told that Vernon will reply to every letter he receives.

The next one is a very unusual contact, one of which we don't see very often. This one is from Henry Kyei Kwasin of PO Box 36, Agona Swedru, Ghana, West Africa who is very interested in CB and will exchange any information on QSLing, sport, football and swapping photographs. This is a very unusual contact and no doubt a letter to Henry would be very much appreciated.

From a member of the DORSET KNIGHTS INTERNATIONAL DX AND QSL GROUP comes a letter from Henk van den Brink of PO Box 6794, 6503 GG Nijmegen, Holland, who sends some excellent full colour cards based on the flag of Holland. Also from Holland, another QSL from Simon and Ankie of PO Box 90, 298 Ridderkerk, Holland, who sent some nice QSL cards, some pin flags and — we are pleased to note — are members of the ANGLO-AMERICAN the SIERRA VICTOR and the BRITISH CONCORDE QSL CLUBS over here. They will be pleased to hear from any fellow club members or will QSL any one who writes to them. From Gerald Steindl of Hauptstrasse 43, A-7032 Sigless, Austria comes a nice QSL and again Gerald would welcome hearing from you. Last from the overseas mail this month is a card from Mrs Kay Kibler of RFD 1, Box 305, Newberry, SC29108, USA, who runs the SOUVENIR SPOON COLLECTORS INTERNATIONAL CLUB. Most of you know that QSLers collect something or other, be it stick pins, badges, stamps or, in fact, into collecting souvenir spoons and exchanging them throughout the world. Kay apparently founded this club for such collectors and confirms that it is basically a QSL club with people who like to exchange souvenir spoons. A QSL with Kay will bring full details of this unique club.

Well fellow card collectors — it's the old bottom right hand corner time again and another month gone. Keep those letters coming in to me — Mike Newbold, 124, Hillcross Avenue, Morden, Surrey SM4 4EG. See you next month, till then, TAKE CARE — WE CARE.

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THUNDERSTICK

MOBILE

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NEW

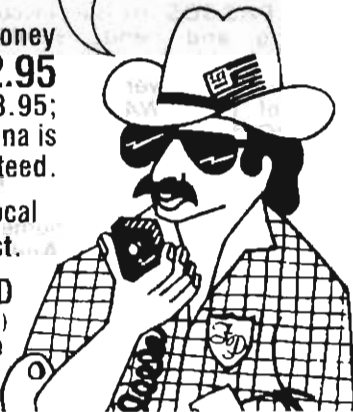
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fer-tas-STICK!"



TWONG

LOOKIT OUR HERO! HE HAVIN' FUN! HE HAVIN' A LIL' FLYABOUT! HE HAVIN' AN AERIAL STROLL! ALSO HE HAVIN' TROUBLE WITH THE OL' EQUILIBRO, ON ACCOUNT OF THE NEWCASTLE BROWN THAT HE BEEN NECKIN'!!

WUCCUP
WUCCUP
WUCCUP

GOSH! I HAVEN'T SEEN TWONG FOR AGES! I HOPE HE'S ALRIGHT!

NI YAM SW-LU...

I HOPE HE'S NOT IN ANY TROUBLE! HIS LIFE-STYLE IS SO GLAMOUROUS AND FAST...

NI YAM SW-LU...
GROSS WATER...

... I REALLY MUST TRY TO SLOW HIM DOWN...

COSTA TEEB...

AH! HE KNOWS THAT FACE! HE IS HOME!

D'INF

ARGH!!

SLEEP

HAN! FLYING UNDER THE INFLUENCE AGAIN! SOMETHING MUST BE DONE! I'LL PUT OUT A CALL FOR HELP ON THE OL' C.B.!

CLIK

SO RAGDOLL HITS THE ETHER WITH HER PLEN, AND...

YA! I BETCHA I CAN KONTROL ZAT LOODY GUY! FETCH HIM OVER HERE AND I VILL GO TO VORK ON HIM!

HEH!

YELL, FRUM VOT YOU BEEN TELLINK ME DIS GUY IS NOT NEEDINK DRYINK-OUT, HE IS NEEDIAK...

SO...

... PER STABILISERS!!

BAREY

CHT
SLASH

WERNER VON SMITH ROCKET RESEARCH, VIVISECTION, AND C.B. REPAIRS. EST. 1946

YOU LOODY

WOSBAT?

LATER, OUR HERO AWAKES AND NOTICES SOMETHIN' STRANGE...

WOW!

ME GOT WINGS! JUS LIKE MY DADDY, HERES MESSENGER OF LOVE!

ME DASH OUT AN' GIVE 'EM A WHIZ!

OH, JOY! MY HERO IS PLEASED! NO MORE LOW FLYING! NO MORE CRASH LANDINGS!

HE GO TOO!

CLAK

ONE... TWO... THREE... CONTRA...

ARGH!

HUMMMMM

WHIZZZZ

WHIPS

PSHAW!!

BRAP
BRAP
BRAP

WELL IF WE CAN'T KEEP HIM OFF THE AIR, AT LEAST WE CAN KEEP HIM OUT OF IT!

GAZETTE LOCAL LOODY ARRESTED FOR:

FLYING UNDER THE INFLUENCE, BEING DOBEE THE AIR, FOLLOWING THE AIR, PHONING AND WHIZZING TO WHIZZING OVERS.

Rig Review



When Smart Alec isn't busily sorting out your questions for CB Q&A he is an 'out of town' man. Country pursuits are never complete without a portable CB radio so we asked him to tell us about his favourite hand-held and emergency rig . . .

TOP PO AND EMERGE RIGS



Because I follow a number of outdoor pursuits I probably use a portable CB radio more than most. Certainly I have found the system to be invaluable in boating, shooting and those long walks across windy, misty moorland.

Each of these somewhat solitary pastimes do contain a certain element of danger making a top quality and reliable product a must. Choosing the top hand-held was not an easy task when considering cost, quality and versatility. But by cutting down on some of the 'other' pleasures in life such as smoking and a little more than the odd glass of ale the actual outlay became the least important!

The Realistic TRC 1001 has maintained its price of £119.00 since November '81 when CB was legalised on the FM channels in the UK. It was the very first legal rig that I bought and — after waiting two weeks because demand was high and the advertising was ahead of actual delivery — was the first rig that I used mobile. And there is the secret of the 1001 — it is a very versatile rig.

Tandy, Radio Shack in America, based this rig on their popular AM version available in the US at — I am advised — considerably less cost. One difference being the antenna which, for the UK model is a full 1.5m telescope whip.

The top of the box is a little crowded but not so much as to make the rig difficult to operate. Apart from the antenna there is also an extension speaker socket and a very handy socket for an extension mike. This is a great plus and a must if the rig is to be used mobile on land or sea.

PORTABLE EMERGENCY

Other features are a big PTT button, hi/lo power switch, an external antenna socket, a Ni-cad recharging socket and a third for an external power supply. A red digital display tells you the channel number — this goes out after a few seconds to conserve battery power. As with all hand-helds it does drink the juice and Ni-cads are essential.

An expensive but exceptionally good rig with only one fairly minor irritation — the carrying case. A vital part of any portable and Tandy have really not paid much attention to this aspect of a top quality product. Unlike the cases provided with, say, Harriers or the Binatone Long Ranger 40 — which are soft imitation leather cases — it seems to be made of some thin pressed cardboard. Cheap 'n' nasty and no plans, as far as one can see, of changing it.

It would be wrong to say that the TRC1001 is the only good portable on the market but it is, in our opinion the best. Harriers, Harvards and the Binatone range all have a popular following and the Long Ranger 40 certainly tested out well and — at around £59 — it must be considered if the high price of the Tandy tends to put it beyond your price range.

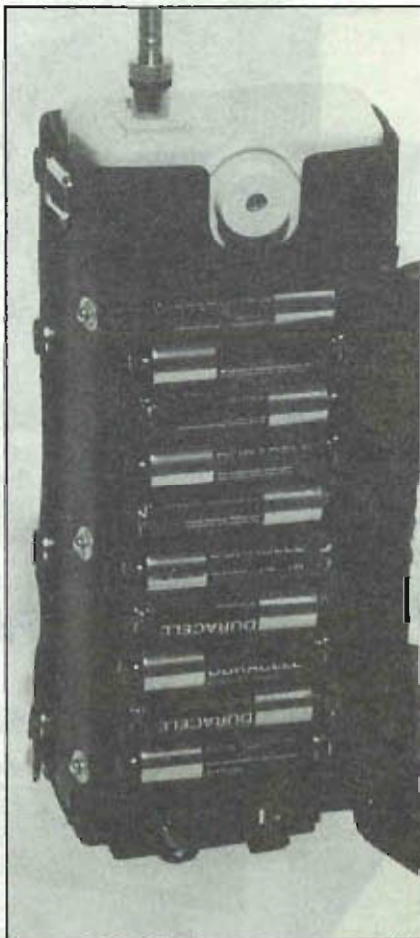
Emergency Rig

There are a considerable number of people in the country who have no interest whatsoever in CB radio . . . hard to believe but true. For those who don't want to make use of the service in general there is a way they want to use it in particular — emergencies only! For this side of the market several leading CB manufacturers have developed an 'emergency pack' which consists of a portable CB that can be carried in the car boot and dragged out and plugged in when the situation so requires.

Midland, Cobra, Tandy and Maxcom are four rigs currently



covering this market place. All four offer roughly the same facilities. Mag mount, cable and a plug to pop into the cigar lighter socket. All four offer about the same degree of performance, a performance often limited by the small



antenna and the design need for compactness. We chose the Maxcom 7E Alert Mobile Transceiver as the best offering for two very good reasons. The first is that after a great deal of use, as a portable — for use in other than emergency situations — the 7E functioned faultlessly. The second is much more obvious.

I'm a double belt and braces man myself and have carried a 7E for a long time both in the car and on the boat. Both vehicles are prone to battery failure through neglect and an emergency rig that relied on its power to come from the vehicle battery could be a bit of a liability. The Maxcom 7E is supplied complete with a battery pack. Although this pack is an integral part of the carrying case and not of the rig itself it is difficult to see any reason why the 7E should not remain in its case at all times. The unit, complete with power cord and antenna, is stored in a strong plastic case for easy transportation.

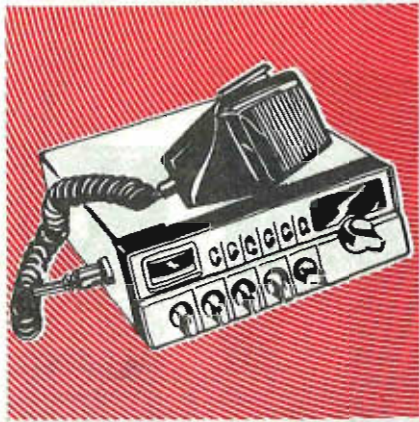
If you are wise and buy a set of Ni-cads do ensure that they are recharged from time to time — whether or not you have cause to use the rig — as they do deteriorate over a period of about two months. Look upon this rig as a form of insurance but do remember it functions perfectly well as a straight forty channel portable.

The MAXCOM 7E is priced at around £50 and details of suppliers will be given by AMT, AM House, 9a Olds Approach, Tolpits Lane, Watford, Herts.

TANDY TRC1001 will cost you around £119 with special offers from time to time. Information regarding your nearest supplier can be obtained from: Tandy, Tame Way Tower, Bridge Street, Walsall.

CB

Rig Review



When it comes right down to it the rig that you decide to buy is a personal choice. Here, for your guidance, Chris Peterson gives you his choice of the top five CB's from the many he has reviewed over the past year . . .

5

OF THE BEST





ne of the most frequent questions we get asked here at *Citizens' Band* is 'what rig do you recommend? This is not an easy question to answer,

since everyone has their own ideas about the features that make up an ideal rig. A feature that one breaker may consider an absolute necessity may well be regarded as pure gimmickry by another. Having said that, there are certain parameters that are vital for satisfactory performance. In this article we are going to look at five rigs that we have reviewed since legalization and found to be the better performers. Some of them are available in more than one version so that you should be able to get not only good technical performance, but also the extra features you may want!

Magpie Autoscan 5000

We reviewed this rig in the April '83 issue of *Citizens' Band*, and were immediately captivated by it. The technical performance is unimpeachable, with an exceptionally high degree of immunity to 'bleed-over'. In urban areas this is one of the most important features of a rig's performance and is where all too many designs fall down. Most of the rigs that have acquired poor reputations have done so because of this failing. The designers of the Magpie have got it right in this respect, and during our tests we could detect no signs of desensing, bleedover or any other misbehaviour despite severe provocation!

The *Magpie* designers have got it right in other respects as well. All the controls including the 10 dB attenuator are on the front panel, and the mike connector is on the right hand side. The channel display is a vacuum fluorescent device this is much brighter than the usual LED display. To stop you being dazzled at night, it is fitted with an automatic dimmer that adjusts the brightness of the display to suit ambient light levels. Channel selection is by electronic counter rather than by a mechanical rotary switch. This enables the manufacturers to supply the Magpie with a scanner as standard equipment. This can be preset to stop on either occupied or unoccupied channels according to your whim! The only minor criticism we could think of was that the rig is only suitable for negative earth vehicles. Not an insurmountable problem, as voltage invertors are available. It will only affect people like me who drive antiques!

One of the most impressive things about the Magpie is one that most purchasers will never see, and that is its internal construction. Most Oriental-originated rigs are not noted for their tidiness inside. The Magpie contains a beautifully neat double-sided glass-fibre printed circuit board that is a joy to behold!

Although inevitably a large number of Japanese components are employed, the Magpie is less dependent on them than some other



Look for the green sticker on the Radio Technic DNT.

rigs. The synthesiser is a general purpose device of American origin rather than a Japanese dedicated CB type. An external EPROM is used to program the synthesiser, which means that unlike most other rigs the Magpie cannot become obsolete overnight! Should the European Parliament decide to adopt a specification for CB that does not coincide with ours, and should the Home Office decide to adopt it, then all you will need to do is get the EPROM reprogrammed! Most home computer fans will know all about this!

The Magpie was a fascinating rig to review and was handed back most reluctantly. The most satisfying aspect of the review was that this was the first British designed and manufactured rig we've handled. There are one or two more in the pipeline, and if they all behave like this, the Japanese had better look to their laurels! At the time of writing we are hearing unconfirmed rumours of a 934 MHz conversion kit for this rig. Should be interesting!

The only fly in the ointment as far as the Magpie are concerned is the price. At £120 it isn't cheap, and I only hope they get the support they deserve. If any Government officials out there are reading this (fat chance!) they might like to consider the ludicrous import duty situation. This decrees that components imported to construct rigs in this country attract a far higher rate of duty than the same components imported as fully assembled rigs! Thus our beloved bureaucrats are actually discouraging the manufacture of high technology electronics equipment in this country. No wonder we have three million unemployed...

The Super tuned DNT M40FM Special

Way back in July '82 we reviewed this rig, and it still remains one of our favourites. The original DNT M40FM was available from day one of legal CB, but rapidly gained a reputation as a lemon because of its poor swamping performance. Strong signals reduced the receiver to jelly immediately and a deaf one at that! RadioTechnic, the importers, decided to do something about it and contracted a well known firm of RF consultants to sort out their rig. The result is the **Supertuned M40FM Special**. The rig has been absolutely transformed by the modifications from one of the worst receivers around to one of the best! RadioTechnic are to be congratulated on their honest approach to a well known problem that is in marked contrast to that of some very well known rig importers!

It is unfortunate that some of the mud slung at the early unmodified rigs seems to have stuck to the DNT name. The rig is now one of the best around and should be closely considered by anyone wanting exceptional receiver performance — see the letter from John Durant on page 36 of the April '83 issue of *Citizens' Band*!

The excellent performance is complemented by the neat and compact nature of the rig. The controls are kept to a minimum, and all are on the front panel. The 10 dB attenuator is on the front as is a Dx-Loc switch which controls the RF gain on the receiver. The channel display is a pleasing green that is more robust than a red LED display in sunlight, and the meter is also more readable than

many. As with some other rigs, this is only suitable for negative earth installations unless a voltage inverter is employed.

This is a very compact rig and can be tucked away in most vehicles without any difficulty at all. The mike connector is a five pin DIN type on the front panel. Some people don't like DIN connectors claiming that they fall out easily. This certainly hasn't been my experience, as all the rigs we've tested with DIN connectors have been very good fits. Indeed DIN connectors could be regarded as a protective feature for the mike. Under excessive strain I think I would rather have the plug simply pull out instead of fracturing the cable! You pay your money and take your choice . . . !

The synthesiser on these rigs is a three crystal circuit. Any amateurs out there might like to note that this makes it relatively easy to modify it for ten metres!

Criticisms are few; perhaps the audio doesn't have the sparkle that some rigs achieve. Also the antenna is relay switched between transmit and receive. This allows the protection diodes to be eliminated from the receiver front end, and another possible source of cross-modulation disappears, but in the long term it must be less reliable than electronic switching. Only time will tell.

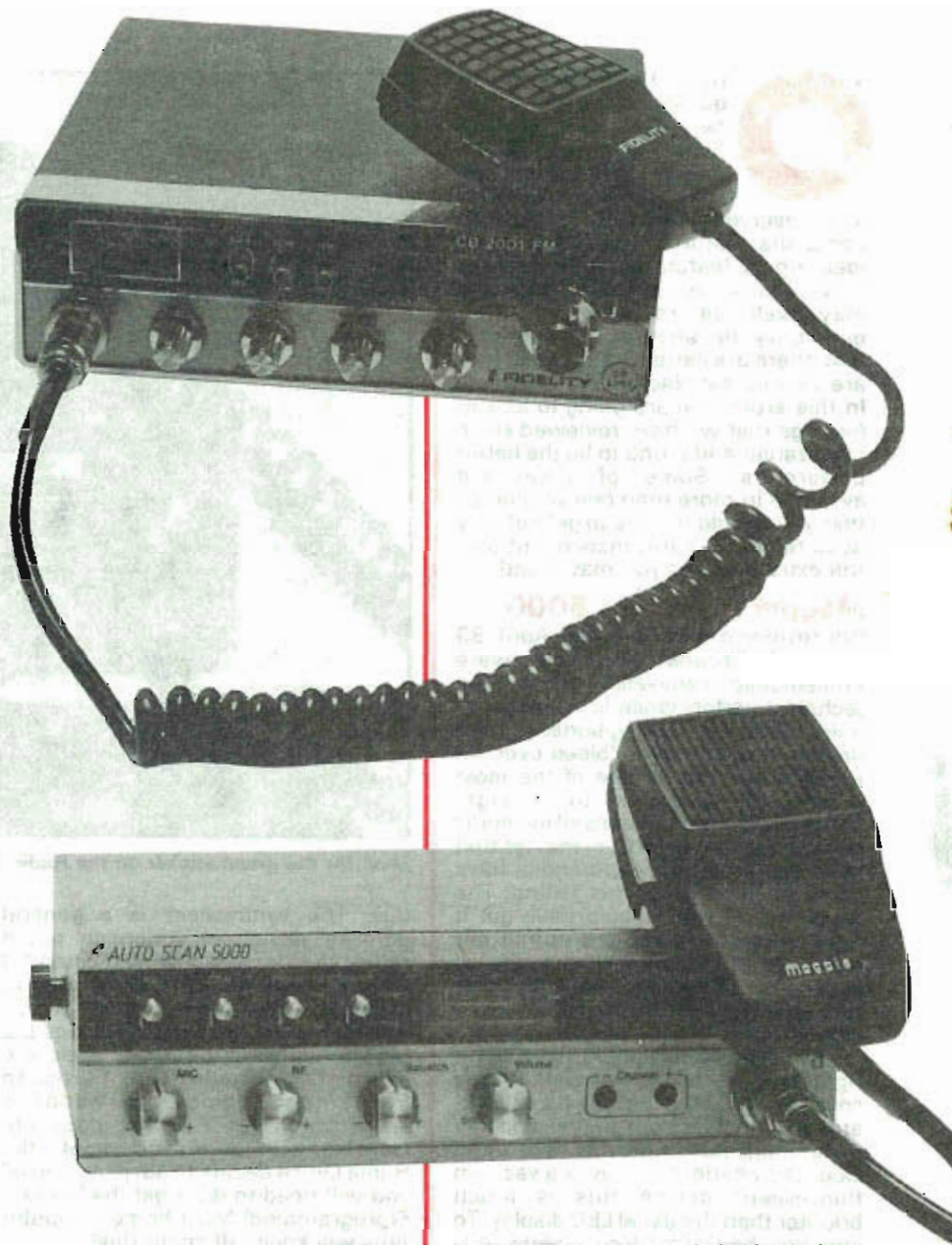
The excellent performance and compact dimensions of this rig have made it one of my all-time favourites. The last time our review sample was seen it was firmly screwed into the dash of our beloved editor's car and he was fighting a valiant rear-guard action to avoid returning it!

Cybernet

Cybernet are one of the biggest manufacturers of CBs in the world and were supplying many of the rigs available on day one of legal CB in the UK. As well as appearing under their own name they are responsible for Yorks, Dixons Harriers, Rotels, Radiomobile, Fidelity 2000s, Halfords Barracuda 940, Binatone 5 Stars and probably several more that we don't know about! All these rigs use the Cybernet 134 chassis except Cybernet's own Beta 1000 and 2000 and the smaller Radiomobile. These use the 135 chassis which is essentially a compressed 134.

Since all these rigs use the same chassis, their performance is essentially identical, the only differences being cosmetic and the number of controls brought out to the front panel. The quoted list contains some of the best known rigs and the high reputation they enjoy right across the country is a considerable complement to Cybernet.

It has to be said that there is no startling new technology employed in these rigs, just well-proven thoroughly reliable circuitry. The first legal rig we ever tested was a York JCB 863 which uses the Cybernet chassis. It worked a treat and gave us real hope for the UK FM specification after all the scare stories that had been circulated by the



AM-or-bust brigade. For a long time this has been one of the best performing rigs around and can still only really be bettered by the 'special' rigs like the Magpie and DNT mentioned above.

In terms of performance, the receiver is one of the more immune rigs from a swamping and cross-modulation point of view. Although not totally immune from bleed-over, an interfering signal has to be very strong before any ill-effects are observed. The best feature of this rig is probably its audio performance. The transmitted radio is exceptionally clear, though Cybernet do have a habit of setting the deviation a bit low. This can make you sound slightly faint to other stations. However, the cure for this is simple and well known and can be carried out by most competent 'rig-doctors'. The received audio is also exceptionally clear and seems to be less harsh on the ears than other rigs.

If Cybernet rigs have a weakness it is probably the squelch circuit. This is level operated with no hysteresis, and tends to rumble a lot on signals hovering round the squelch threshold. It also thumps a bit when opening and

closing. This is most irritating when listening at relatively low levels, as the rumbling and thump are unaffected by the volume setting and are thus relatively louder at low volume settings.

Popular and recommended mods for these rigs are fitting an Ambit noise squelch circuit which cures the squelch problems totally. Fitting a crystal filter in the first IF stages gets the swamping and cross-mod performance right up there with the DNT and Magpie.

A number of companies like Woolies appears to be pulling out of CB, and consequently these rigs can be picked up at rock bottom prices if you keep your eyes and ears open. We have heard of Cybernets going for as little as £16 which makes them amazingly good value for money. These are probably the best performers below the 'Superrig' price bracket and well worth considering. Being available under a number of 'badge-engineered' versions means that you should be able to get just the cosmetic version you personally want with a guaranteed level of performance.

Uniden Uniace

Unidens and Cybernets are a bit like Ford and BMC were in the car markets a few years ago. Each brand has its own loyal following and once committed few of their respective followers change sides! In truth there is little to choose between them. If pressed we might concede a very slight edge to Uniden in terms of RF performance, whilst allowing Cybernet the honours on audio quality. Certainly the Uniden has a rather harsher received audio quality than the Cybernet and can sound slightly woolier on transmission. On the other hand, the use of FET mixers in the Uniden receivers makes it marginally better than Cybernet when presented with a massive signal on a nearby channel.

Uniden rigs bear more than a passing resemblance to the American President range of rigs that were very popular in the naughty old days of illegal AM. Probably many of the breakers who bought them in those early days were basing their judgement on experienced gained before legalisation as the Presidents have an excellent reputation. I doubt if anyone has been disappointed by these rigs.

The overall standard of construction and performance is very good. Criticisms are similar to the Cybernet, the weakest point again

being the squelch though it doesn't operate with such a noticeable 'plop' at low volume settings. The styling is a bit chromium and trans-atlantic for some tastes, but probably the biggest snag is having the mike connector on the left hand side of the case. This can be a considerable nuisance in a right hand drive car, and implies a somewhat 'take it or leave it' attitude on the part of the original manufacturer. We first reviewed a Uniden in the September '82 issue and rated it a worthy contender in the mid-range stakes. We have had no reason to change that opinion since and it remains a rig that should be seriously considered by anyone looking for a medium priced rig.

Amstrads, Transcoms and Fidelity 2001s

All these rigs plus **Mustang** and some of the Harvard range use this interesting Japanese originated chassis. Early Amstrads had microphone problems which dented their reputation a bit, which is a shame because this is another good chassis.

With the exception of the **Fidelity 2001**, all these rigs have a side mounted mike connector which can be a snag as it is on the left hand side! The fact that Fidelity got it moved to the front proves that it can be done if the importer makes enough noise about it to the manufacturer! The receiver

makes much use of FETs and this probably accounts for its above average performance in the swamping and cross-mod departments.

Indeed in this area it is right up with the Cybernets and Unidens and maybe a gnat's whisker ahead! The squelch action is also good with a degree of hysteresis that prevents it from trembling around its threshold. However, it does have a limited range compared to the Cybernet and Unidens and on noisy days may require the use of the RF gain control to cut all the garbage out. The rigs we've tested using this chassis seem to be slightly more susceptible to electrical noise within the car than the others we've mentioned. Generator whine in particular seems to get through more than in other rigs, and this may be worth bearing in mind if you know your car is electrically noisy. Otherwise these are excellent rigs which we have no hesitation in recommending for consideration alongside Cybernets and Unidens.

Conclusions

If money is no hinderance, and performance is your goal then the **Maggie** is the current front runner. Somewhat less expensive, but offering comparable performance in a smaller and less sophisticated package is the **Supertuned DNT M40FM Special**. Be careful not to confuse it with the standard model! If money is important, and it is to most of us, alas, then it's a three-horse race between the Cybernet based rigs, Unidens and the **Fidelity 2001** and its relatives. In this last group there really is very little to choose between them performance-wise, and the final decision would probably have to be based on details like how many knobs and switches do you want, and will it fit the hole in the dash?

CB

STOP PRESS

We have just received another British rig for review. Initial tests make it look very promising. Watch this space for a review of the **Mercury 1040**...



Rigs

These rigs were reviewed in the following issues of *Citizens' Band*...

Maggie	April '83
DNT Supertuned	July '83
Cybernet	May '83
Uniace	Sept '82
	Feb '83
Fidelity	Sept '82



Now that the holiday season has arrived, Andy R Giles has been looking at some of the difficulties involved in using CB abroad.

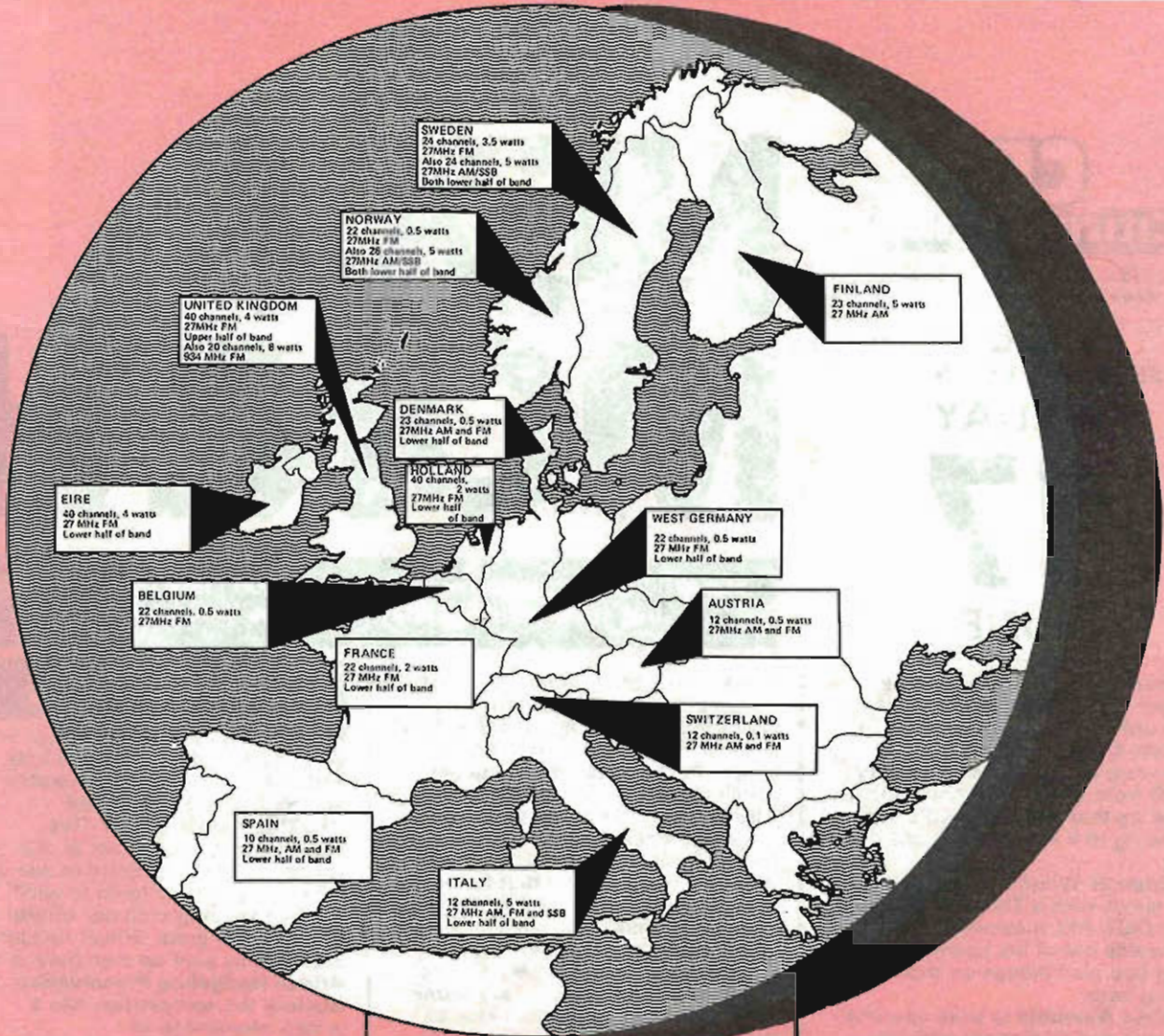
ABROAD WITH CB

It seems that more and more people are holidaying on the Continent with their cars and, not unnaturally, they have thought of taking their rigs with them. There are numerous obvious advantages to having CB while abroad. Foreign road signs are not always easy to understand and being able to ask for directions can be very useful. CB also helps you to get to know the locals far better than the average tourist and foreign breakers tend to be helpful towards Cbers who are visiting their country. CB can also be invaluable if there is a group of you and you are using two or more cars. It is easy to become separated during a long drive and trying to link up in a foreign country can be surprisingly difficult. CB is also a useful aid for hitch-hikers because it allows them to organise lifts from the comfort of a cafe instead of having to stand out in the rain waving their thumbs in the air. It also ensures that the people that they meet will have a similar interest in CB and quite often it will be possible for them to arrange the next ride by using the rig in the car that they are travelling in.

By now you are probably thinking that everyone who drives into Europe should take their rig with them but unfortunately this is not possible. The CB system that we have in Britain is unique and is not compatible with any of the other systems in use throughout the world. Consequently foreign customs officials do not allow British CB rigs into their countries and they will usually confiscate them, sometimes permanently but often just until the end of the holiday when the rig can be collected at the border post. There is not really much point in trying to smuggle a rig past them because the penalties are high and even if you succeed there will be no-one to talk to,

unless you happen to come across another British tourist with a smuggled rig. The only answer is to use a rig that operates on the system used by the country you are visiting. Unfortunately this presents yet more problems. It is not usually possible to buy foreign rigs in this country and even if it were, there are so many different systems in use abroad that it would be very difficult to be sure that you are buying the right type of equipment.

Contrary to popular belief, there is not just one standard European CB system. In 1972 a committee called the CEPT—conference Europeene des Postes et Telegraphs—recommended a set of standards for a CB system which it suggested should be adopted by the countries in Europe who were, at that time, in the process of choosing a system. Unfortunately the CEPT is not a legal body in the sense that it does not have the power to enforce its recommendations so, naturally, the countries in Europe all went their separate ways and they all chose different systems. This means that a rig that will work in Switzerland will not be legal in France and so on. Our data map shows the various systems that have been adopted in Europe and as you can see, some of them match up, but not many. The only way to buy a rig that you can be sure will work in the country that you are visiting is to wait until you get there and then buy it. CB rigs are fairly cheap throughout the Continent and when the cost of a rig is amalgamated into the overall cost of the holiday, the cost is quite reasonable. The trouble is that at the end of the holiday, the rig is redundant and has to be either sold or brought back. You may be able to persuade the shopkeeper who sold you the rig to buy it back but he will



certainly not offer you a good price for it. It may be better if you can find a dealer who is willing to hire you a rig for a couple of weeks. Again, it is not worth trying to smuggle the rig back into Britain because the fine is quite stiff and even if you succeed there will still be the problem of finding someone to talk to—there can't be many people in this country who operate on smuggled-in Continental rigs and if you don't manage to contact someone who has a rig from the same country as you, you will not be able to communicate.

Beware!

It can be worthwhile checking out radio shops abroad, not just for rigs but also for accessories. Some European countries are especially good value for electrical goods, but there are some that I would be wary of. Some of the electrical goods are governed by different regulations to the ones that we have in Britain so they may not be built to the standard that we have come to expect, but this does not mean that they are not good value for money. The price of Italian CB equipment is very reasonable—in Italy. Once the goods have been shipped over here the price rockets and it then usually represents extremely poor value for money. If you are in Italy and you find that you want to buy a piece of equipment because it is very cheap, don't hesitate to buy it but bear in mind that it will probably not be as good as a

more expensive item. Don't forget to keep the receipts for any goods that you buy abroad just in case the customs officials decide to check up on you. Radio equipment can look far more expensive than it is so it is useful to be able to prove how much everything cost.

40 Channel AM

When I said that there is not a universal CB system that operates throughout Europe, if not the world, I was not being entirely truthful. The American 40 Channel AM system can be found in almost every country of the world but, as in Britain, it is usually illegal. That is why we cannot recommend that you take an AM rig with you, even though you would find breakers on AM wherever you go. When I visited the Continent I noticed innumerable motorists with American rigs stuck on top of their dashboards, usually with enormous linears taped on top of them, often with bright red seven foot Firestik antennas on the roofs of their cars, and yet the police completely ignored them, despite the fact the Continentals tend to wind the volume up to the maximum and then wind down their windows and shout into their microphones at the top of their voices. Sometimes they shout so loud that they don't really need a rig.

Make Your Mind Up Time

There are some American rigs available in this country that were

legally imported, usually via the Isle of Man, and as these have had all the relevant duties and taxes paid, it is legal to possess them in this country but not to use them. Naturally we cannot suggest that one of these rigs would be the ideal rig to use on holiday on the Continent because that would be suggesting that you break the law of that country. However, take a look at our data map and decide for yourself which rig you would like to take on holiday, especially if you intend to visit more than one country. If you decide that a legally imported American rig is the one for you, don't forget to take a receipt with you otherwise you'll never get it back into this country. The customs will naturally think that you are trying to smuggle it in.

Happing Landings . . .

Whatever equipment you do take on holiday, don't forget to insure it, some of those foreigners can be downright dishonest. Also, do not even think of trying out a hand-held rig on the 'plane home,—if you travel by 'plane that is. Almost everything inside an aeroplane is electronic and the airlines are so worried about the effects of RF on their equipment that they have even banned the use of radio receivers on board. You may find it quite amusing to watch the flaps go up and down every time you press PTT but don't forget, if there is an accident, you're on board the 'plane as well!



NEXT MONTH

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

So many of your letters use the phrase 'Keep up the good work!' Well July will be no exception. For starters **Chris Peterson** will be reviewing the handsome Mercury 1040 from EMS — another British-made rig that has achieved a big following in a very short space of time.

Brian W Wright has been out and about with a **Thorobred** antenna from OCT and is currently belting the words out of his typewriter to bring you his findings on this big-selling twig.

Mike Newbold is busy opening the mail and sorting through the hundreds of QSL cards that he receives each month — to bring you the best in the hobby. **Moanin'**

Mack is gathering info on all sorts of things and **John Richardson** is chuckling over his drawing board as another **TWONG** adventure takes shape. **Andy Giles** has two super cordless phones to play with and **Young Kevin** is sweating blood!

Ask yourself — if CB is your hobby, can you afford to miss the July issue? I'll answer that for you. Of course you can't . . . For a start you would miss the chance of winning first prize in the July competition. Free to enter as usual — easy to do as usual — big prizes as usual . . . I'll give you a clue to the latter right now. It's a **THUNDEROUS** prize!!! But, to this month's competition first, yes folks here it comes . . .

COMPETITION

Knight Communications have very generously put up the great first — and only — prize to this month's teaser. A **WAGNER BASE STATION** worth £150. This smashing rig goes direct to the winner and we are sorry to see it go. What do you have to do to win? Well, in keeping with our efforts to preserve the great British hedgehog and as fully paid up members of the **British Hedgehog Preservation Society** the competition has a prickly element to it!

How many words of four or more letters can you make from the word **HEDGEHOG**? Nasty one 'innit? Pencils out and your list of words to reach me as soon as possible and certainly no later than **JULY 15th**. As a **tie breaker** we will choose the person with the best name for our very own *Citizens' Band* hedgehog. So add that to the bottom of your entry. Rules, as usual, in little writing at the bottom of this page.

Don't forget the rules. No employees of ASP are allowed to enter. All entries must be here by second post Friday, 17th June. The Editor's decision is final. And, don't forget your name and address. Entries to Hedgehog Competition, Citizens' Band, ASP Ltd, 145 Charing Cross Road, London WC2H 0EE.

WAGNER BASE STATION WORTH £150 TO BE WON



Mack Chat

Mack joins hundreds of other breakers for a weekend search mission and finds the real spirit of CB . . .

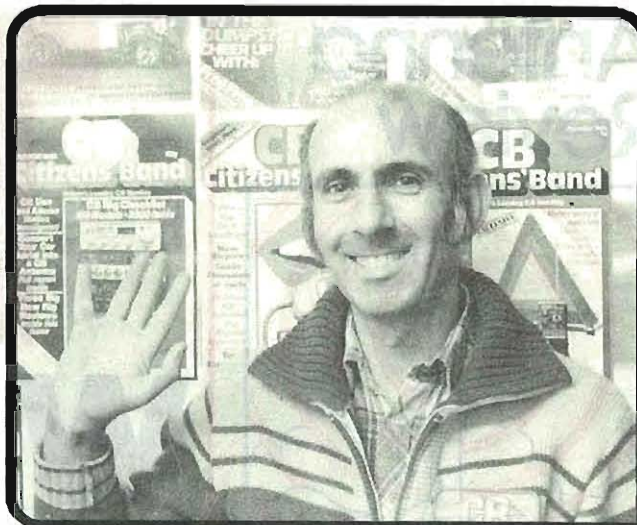
When I first read in the newspapers — then heard on the radio — that CBers were to take part in a search of Epping Forest for the missing 4 year old Marie Payne, I thought that I should devote part of my weekend to help — as I live quite close to the forest.

Rumours from other sources said that the hunt was off and, even when discussing this with a pal of mine on Friday evening, he read an item from his local newspaper that said that the police advised CBers to keep away as they could hamper the search. I woke up early on Saturday morning and listened on the rig. I could hear many mobiles heading towards High Beech as I monitored channels and after a quick breakfast I headed that way myself.

The base control was centred around the Kings Oak and the landlord had allowed the control unit to mount their antenna on the roof of the pub. He also kindly allowed the searching organisations the sole use of the car parks and other facilities at the pub. In the car park were a number of caravans and large vans that housed much of the organiser's equipment — such as in one caravan, the main control radio station and, in a converted ambulance, the Map room. A mobile canteen was also on the scene supplying hot tea and refreshments to the searchers.

The search was a joint operation between the 'Essex Monitoring Service' and 'THAMES' and it proved to me that co-operation between supposed rival emergency CB monitoring groups can work when the need arises. I found no evidence of 'We are in charge' syndrome. It was a successful joint operation. I learnt that many of the people present had been involved in the search for Marie since the time she had first been missing and had helped police in the hunt in and around the Dagenham area. Occasionally the police turned up to issue instructions and inform us of progress. Indeed I have not known the police to be so friendly to CBers as they were that weekend. About 700 people arrived to help in the search and, as they arrived at the control point, they were set up into groups armed with stout sticks to probe the undergrowth. Many had hand-held CBs which they had brought with them to enable them to keep in contact with base control. Every member of the group who had a hand-held was given a number ie Hand-held 1, Hand-held 2, and so on and were given a channel to monitor for each group.

The groups were then taken to the search area by Land Rover or van. When the leader of the group called back to base that the area had been searched thoroughly the groups were then transported back to base for refreshments and then once more were taken out to cover another area. Back in the map room — as each area was given the 'all clear' — it was coloured on the map and the organisers could easily see at a glance what



progress was being made. I noticed that other organisations were present such as the Army Cadets, and Scouts, many of them equipped with hand-held CBs and all quite happy to receive instructions from the organising monitoring services. I also noticed that the St Johns Ambulance Brigade were present and, would you believe, they had CB installed in their ambulances? Around six o'clock in the evening the search drew to a close but many of the people involved in it stayed overnight spending the evening in the pub and sleeping in their cars or caravans.

Sunday morning and many more people appeared after appeals had gone out and — at times in heavy rain — the search continued.

Although young Marie was not found, a few other interesting items were revealed. At times when the code letter 'S' was called by the searchers — this being the



call for suspicious items found — the police were called to the spot. Found by the searchers were the decomposing body of a cat wrapped in material and, a plastic bag containing the remains of a dog was found in another spot. The other drama was when a stolen car was found with a child's shoe inside that fitted the description of what the missing child had been wearing. But after police investigation they reported that the shoe was not that of the missing child.

That weekend, meeting the many CBers that attended the call for help, gave me the feeling that for the few who discredit CB, there are many hundreds more that show willing to give the hobby the respectful image which, at times like that, it richly deserves and in this case received.

CB

Antenna Review



Specifications laid down by the Home Office for the manufacture of CB antennas are stingy to downright mean. Yet within those specs the manufacturers have come up with some really efficient designs. Brian W Wright has tested a fair number for *Citizens' Band* and gives you his personal choice of the top five so far tested . . .

With the introduction of FM CB into the UK in November 1981, it seemed pointless continuing to use illegal antennas after paying the rather high prices for a few rigs that were available. The new sense of security from a bust by the dreaded Buzby or Customs, was not complete without a legal twig. It was rather disappointing however, after years of using inconspicuous aerials, not to be able to stick up the big flashy twigs that many of us previously would have liked but were too chicken to erect. I don't think that any of us had reckoned on such a short length and low height restriction. If rigs were a little scarce, legal antennas weren't much more abundant and homebase antennas, in our area at least, were non-existent at the time. Nearly all legal antennas available were really just AM twigs that happened to conform to UK FM specifications and homebase set ups comprised of one of these fitted to a groundplane assembly. Happily since what now seems like those far off days of about a year and a half ago, legal antennas have become available in all shapes and sizes, mobile and homebase.

As you know if you are a regular reader, *Citizens' Band* normally reviews a mobile or homebase antenna each month. Testing is done over a standard test route with the same two standard Uniace 100 rigs, as these rigs rarely suffer from desensing or bleedover which could give false readings.

This month, for the benefit of new readers, those of you who throw your magazines away or those with bad memories, we are going to tell you which we consider the five best antennas tested so far.

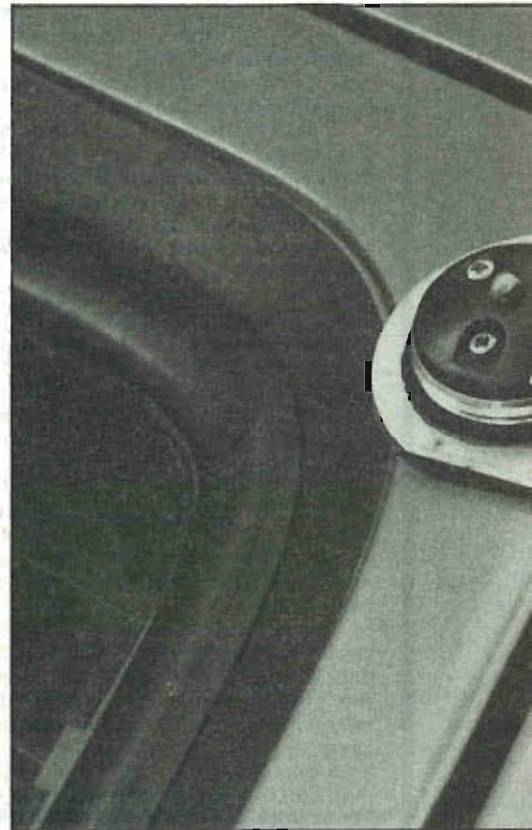
K40

We will start with the K40 from American Antenna. As it was a very well known and used antenna on AM it was indeed very fortunate that the K40 conformed to the UK specifications — although it only just when cut down and tuned to UK FM — as this antenna always managed to hold its own against most other mobile twigs including many of the large ones. The story is just the same on FM, it is till one of the top performers, one of the best constructed and looks quite smart and is well made.

TOP

The stainless steel whip fits into a ferrule on top of the short, large diameter, black plastic encased coil and is held securely by a grub screw which allows the whip length to be adjusted for tuning. The K40 coil fits by use of a quick release fitting onto its mounting base which has a large ball and socket type adjustment to allow the antenna to be positioned vertically — even when mounted on a sloping surface. A very useful feature. The K40 comes complete with all the fittings, cable etc. to get you on channel. This is a well tried and tested antenna, we don't know of any one who has regretted owning it or who has any complaints regarding its performance.

You will have to pay for all this quality and performance of course and at £32.50, is quite a large investment, considering some rigs are now cheaper than this. The K40 should have a long service life as even the plastic encapsulated coil doesn't seem to suffer any damage if accidentally dropped onto the road.

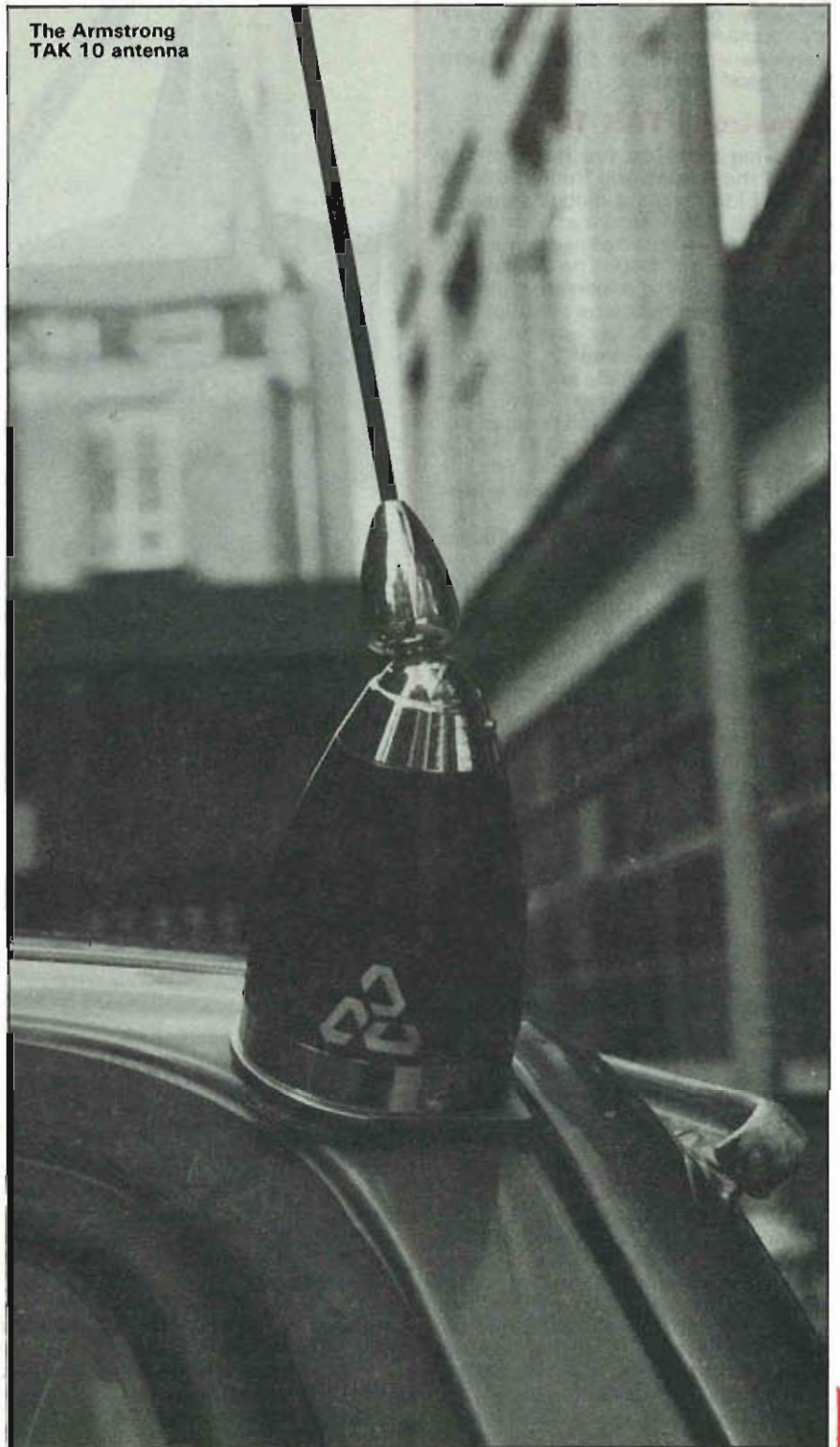


TWIGS

Bullwhip

The next twig on our list of top performers is another mobile antenna — the **Bullwhip** from C.B. Services (Harrogate). This is a very long antenna and needs a secure mount on the vehicle to which it is fitted. The Bullwhip differs from the majority of mobile aerials in as much as the base loading coil is very long, about 58 cm in fact. The coil is logarithmically space wound which is claimed to give a lower angle of radiation, making it 40-50 percent more efficient than conventional antennas. The whip is taper ground stainless steel, bringing the total length to over 1.9 metres. The Bullwhip has a very wide bandwidth and tuning was not necessary on our sample and even when moved to various vehicles the SWR never went over 1.4:1. Performance was extremely good on test and no problems were encountered throughout the tests. Construction is quite good and the antenna should have a long service life — that is if you

The Armstrong
TAK 10 antenna



watch out for low bridges!

An antenna mount of some sort with a female $\frac{3}{8}$ UNF thread will be required for this aerial. If a magmount is used it will have to be a strong one. We usually criticise antennas being supplied with no means of mounting but, as the Bullwhip is a high performance antenna priced at only £12.95, it is still a good buy even after purchasing a mounting and coax. One point worth a mention is — that due to its size — the Bullwhip should make quite a good base station antenna when mounted on a suitable groundplane assembly. We did try this antenna on the novel Heli-Base groundplane unit also supplied by C.B. Services — priced at £12.50 — with fairly good results.

Armstrong TAK 10

Following close on the heels of the K40 is the **Armstrong** from Stateside Trading Ltd. again, a mobile antenna. This is a small antenna with a big performance and is claimed by some to outperform the K40. The Armstrong that we tested did perform slightly better in some locations although the K40 performed better overall. Both aeriels were mounted in identical positions on the vehicle and antennas were swapped over and test transmissions made whilst stationary. The Armstrong did very well indeed considering the fact that the whip is only about one metre long — only two-thirds the length of the K40!

The Armstrong is a very well made and neat looking aerial — it is also very discreet — the base loading coil is like an upturned eggcup and the whip is copper plates, taper ground stainless steel, with a black coating to protect the copper plating. The coil is connected to its base by a $1\frac{3}{4}$ turn thread for easy removal.

The Armstrong comes complete with mounting base, coax and plug, with a small diameter connector in the lead to enable it to be fed through small holes in the vehicle. A special feature is the ball joint on the top of the coil to enable the whip to be positioned vertically after the antenna has been mounted. This aerial can be supplied with many different mountings. The model tested was the TAK 10 with a boot lip mount. For breakers who don't like large aeriels but like to get out well — usually a contradiction — the Armstrong could well be your answer. This is certainly a smart professional looking antenna, priced at £26.99 complete with mount, coax and plugs, is good value.

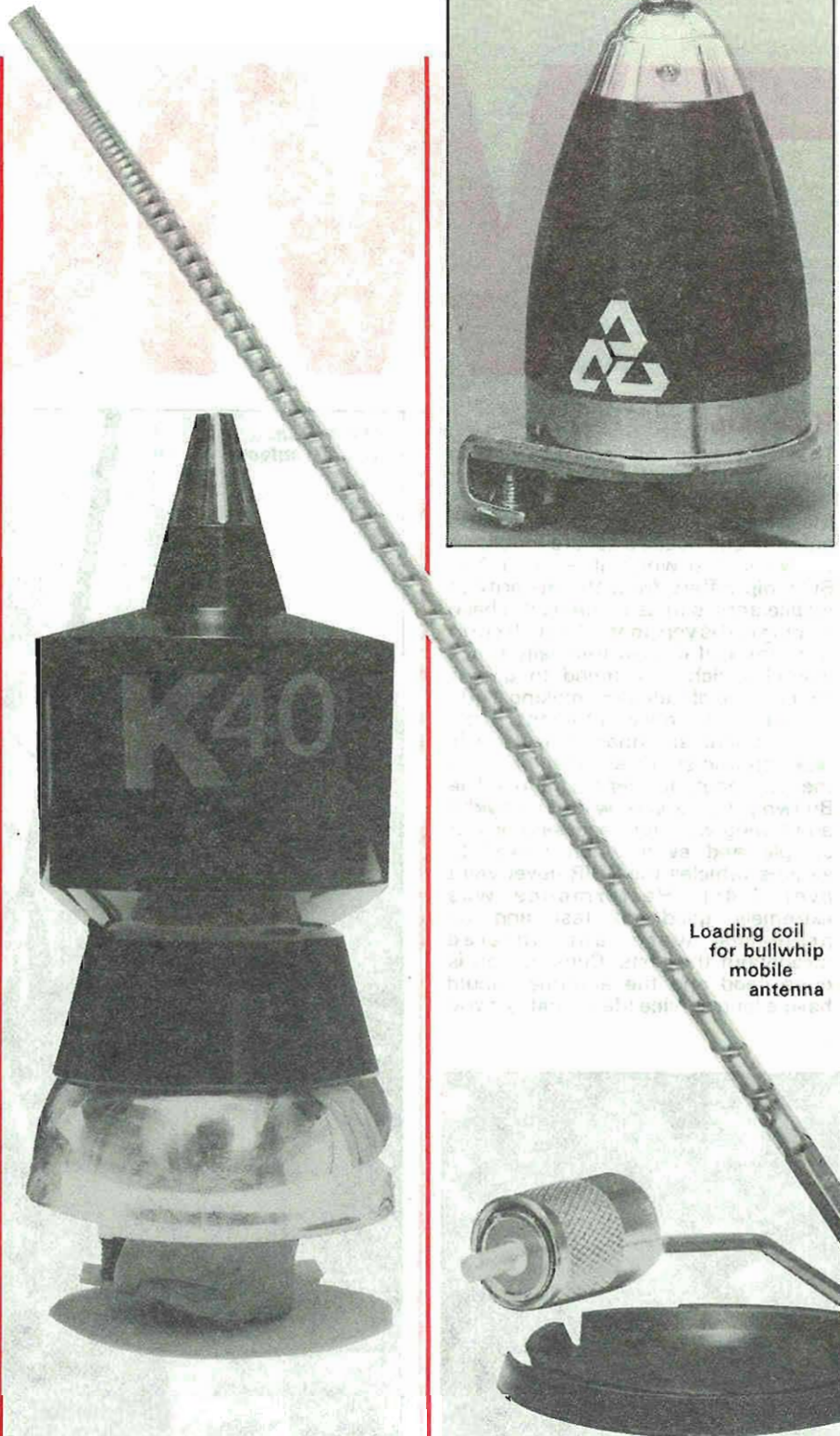
Thunderpole MK II

So, to a base station antenna — the Thunderpole MK II from Freeman and Pardoe Ltd. This is quite a large assembly with three angled down groundplanes each 2.67 metres long with a 1.5 metre antenna on the top. The Thunderpole was the best all round base station antenna tested, looking and performing almost the same as the famous illegal Starduster. This aerial has all the necessary

features looked for in homebase working. It is well constructed, has good performance, is easily assembled, has a simple and secure method of mounting to a pole and — a very important feature — it is **pre-tuned**. In our original review we criticised the coil connections, but these have now been improved and the windings doubly encapsulated, giving good protection from the weather — some manufacturers do read *Citizens' Band*.

With this type of antenna you will need a reasonable amount of space and the pole will have to be of fair length as over two and a half metres of

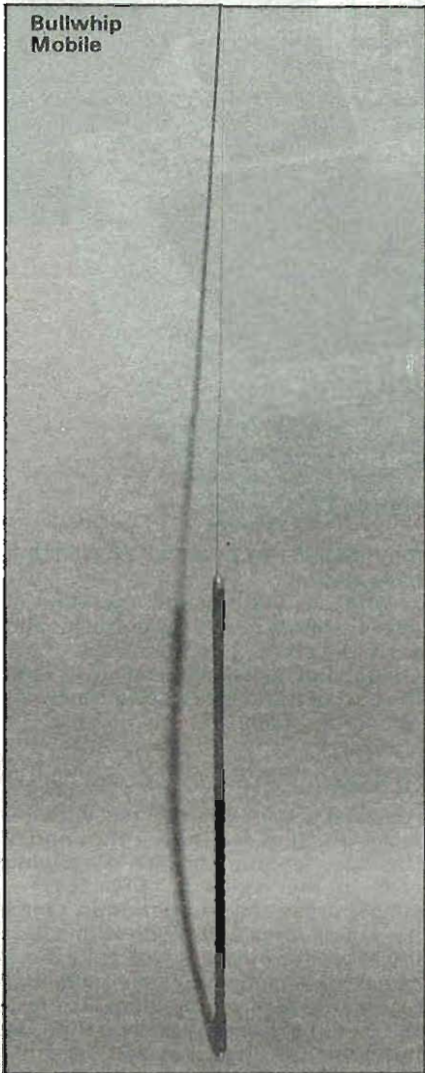
pole are required just to clear the groundplane legs. We found that the bottom of the groundplanes have to be at least two metres from the ground for the SWR to be below 1.4:1. Obstructions too close to the antenna will also upset the SWR as with any aerial. When mounted correctly clear of obstructions the Thunderpole tested had an SWR of 1.2:1 so you should be able to erect the antenna with the confidence that it will not have to come down for SWR adjustment. The Thunderpole being a top performance legal antenna at the competitive price of £25 has proved to be a very popular choice for base stations.



Loading coil for bullwhip mobile antenna

The final favourite legal antenna may be of special interest to those naughty breakers who were on channel before 1981, especially if they enjoy DIY CB. This antenna is a modified Starduster, so if you still have one laying around — I'm sure that you wouldn't be still using one in its original form — you could make yourself a really good legal twig. We have tested — though not yet published — two Stardusters modified to 1.5 metres and the performance does not seem to be much different than when in their original form, with a radiating element of over 2.5 metres.

Although it is not possible to go into

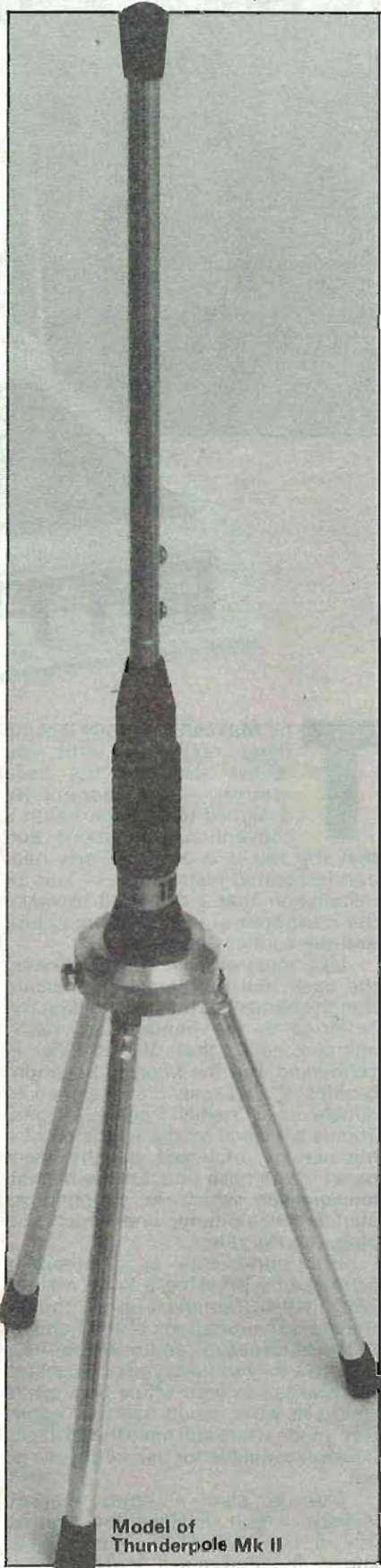


Bullwhip
Mobile

too much detail here, a brief description of the modification is included below. A more detailed article may follow at a later date if there is sufficient interest.

Briefly all that is required is to reduce the radiating element to 1.5 metres by fitting a base loading coil. The screw thread has to be removed from the bottom of the whip and fitted into a 25 mm (1") diameter nylon rod about 75 mm long. The whip is then fitted into the top of the nylon former. The top section of the whip and the small tripod are then discarded and the remaining two sections reduced to just under 1.5 metres by sliding the top

section into the bottom. Nine turns of 16 swg. copper wire are wound around the former spread over a distance of just over 35 mm, the bottom end of the coil is soldered to the screw fitting and the top end secured around a screw in the nylon. A short



Model of
Thunderpole Mk II

flexible wire is then fixed to the whip — as close to the coil former as possible — by a stainless self-tapping screw. The other end is soldered to the eighth turn up from the bottom.

The antenna is tuned by adjusting the length of the whip. If the whip ends up over 1.5 metres or a great deal under 1.5 metres, then the flexible wire is moved up or down one turn on the coil and tuning tried again. When SWR is satisfactory, the coil assembly is well taped with PVC tape to protect it from the weather. Both of the modified Stardusters tested tuned to around 1.3:1 on the eighth turn with just under 1.5 metres of whip. When later the Thunderpole came onto the market, it was interesting to compare this antenna with the modified Starduster, as apart from the coil diameter, they looked identical.

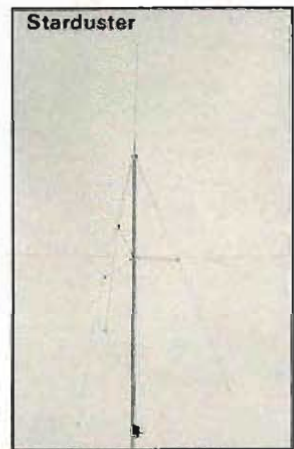
The Starduster gave a slightly better performance, possibly due to its larger coil but difference was negligible and we have yet to find a legal homebase antenna with a better performance than the Thunderpole or modified Starduster.

The five antennas featured this month have proved on test, to be the best that we have evaluated. They are all, in our opinion, well constructed although the quality of the Starduster coil construction is in your hands. The performance of the three mobile antennas were all very close to each other and as mentioned above the base antennas were well ahead of others tested.

New Antennas are coming on to the market at regular intervals so, by this time next year, we will have tested twelve more. It is even possible that the HO specs may be revised and if that happens we hope that CBers themselves or concerned manufacturers will be consulted.

We have several test reports in preparation and next month we will be looking at the Thorobred — an antenna with quite a reputation . . .

CB



Starduster

These antennas were reviewed in the following issues of Citizens' Band . . .

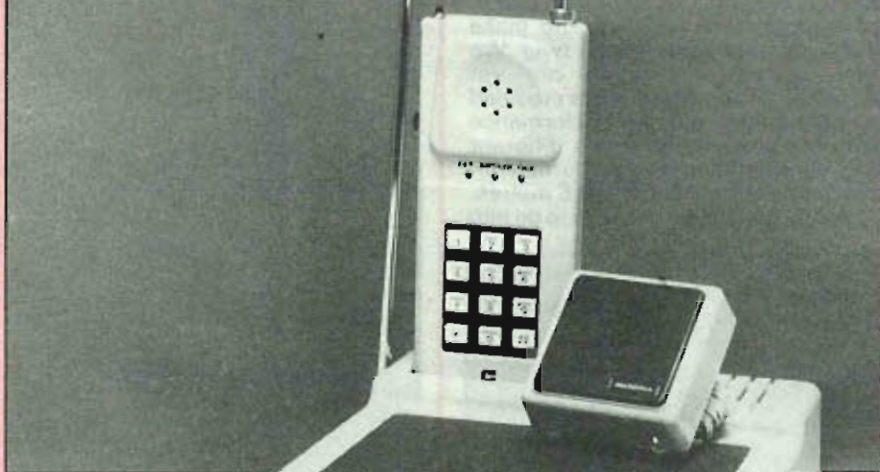
K40	May '83
TAK 10	Jan '83
Bullwhip	Oct '82
Thunderpole	Sept '82

Equipment Review



Put a cordless phone into the hands of a man with a broly and you get some interesting results. Cliff Wilson reports on the Maxcall from Surbiton and Smart Alec tries out the Maxcom from his garden shed . . .

CORDLESS COMPARISON



The Maxcall's a funny looking thing really — until you realise that the flat base station — is especially designed to fit underneath a conventional telephone and that the result is a particularly neat and integrated installation — and an installation that's designed to make the most both of your existing phone and the cordless handset.

Like most other cordless phones, the base unit has lamps to indicate that the handset is being used, that the batteries in the handset are being charged, and that the mains is connected. But the Maxcall has more besides — because it's designed to double as a 'hands free' telephone. This is achieved by the inclusion of a microphone mounted on the front panel of the base unit, and by a small loudspeaker which is supplied as standard equipment, and which you plug into the rear.

This 'hands free' arrangement is activated by pressing a knob marked 'amp' which, amongst other things, transfers the functions of the handset to the loudspeaker and microphone.

Thus, for example, you could install the Maxcall in your office and, while you're at work, could use the 'hands free' mode while still have the cordless handset available for use when you go out.

There's also a knob marked 'secure' which disables the unit so that it can't be used without your knowledge, and a 'call' button so that

the handset can be called up from the base station.

Thus, as you can see, the Maxcall offers almost every telephonic and walkie-talkie permutation. Fair enough but, as we shall see, this is at the cost of the loss of a certain amount of user friendliness.

In Use

I decided to start this user test with the more unusual feature — the 'hands free' or 'tel-amp' facility. Receiving calls in this mode is fairly cosy — simply press the 'Amp' button when the phone rings and get on with it. But if you want to make a call, things are rather more complex. First you have to pick up the receiver (or handset), make the call in the usual way and then, as the person at the other end picks his phone up, push the 'amp' switch and 'hang-up'. This is definitely not cool — and as for instructing a woman on how to do it . . .

Incidentally, the other somewhat undignified thing about the 'tel-amp' is that the microphone on the base unit isn't very sensitive so, although your hands may be free, your mouth isn't!

But let's not be unkind. Even without the 'tel-amp' facility this model is reasonably priced and the cordless phone part does work perfectly well.

Like most of the other phones we have tested, the range was about eighty yards when the receiver was shut behind the brick walls of my semi

in Surbiton which means, to all intents and purposes, that most of us would be able to use the gadget anywhere in a reasonable sized house, garden and garage and, if you're lucky, in your next door neighbour's house as well.

On a good day with the wind behind you you might just about make it to the pub at the end of the road, but reception was pretty unreliable at this distance and even something as trivial as the erection of an umbrella can mess things up. Particularly if you put up your broly in the Saloon Bar.

Okay then, so the Maxcall does basically work very well, but in my view is a little over-ambitious in the facilities it offers. The 'tel-amp' is awkward to use and, a very important point, the relatively complex switching arrangements could well lead you to forget to 'hang up' properly after a call. This could well lead to the accidental running-up of some frightening phone bills. Nevertheless, with a bit of practice I'm sure I'd soon be taking the use of the Maxcall for granted, and at £116.95 it is good value for money.

counterparts it comes in two units. A mains powered base unit and a separate handset powered by ni-cad rechargeable batteries.

The main unit, a cream coloured control box, is stylish and discreet. It would not be out of place either in the office, the living room or hallway — seemingly the most popular place for siting telephonic equipment. It features a call button — for signalling

base of the control unit. I found this to have very little effect and left it in the factory-set position.

In Use

From the house to the garden shed — an oasis in a desert of mayhem — is about three hundred feet as the sparrow flies and, over this distance, the Maxcom worked perfectly adequately. The manufacturers claim that, under ideal conditions, it will send and receive over a range of six hundred feet. However, as with nearly all items of electronic wizardry from CBs to TVs — ideal conditions are almost unobtainable.

Being 49Mhz the handset does have the annoying habit of bursting into life when other 49Mhz equipment is in the immediate vicinity. Sitting there on the kitchen table it happily gurgled away several times and, at one stage, became such a distraction that it had to be switched off.



the handset unit that a call is waiting — a charge indicator, power and in-use LEDs. This unit is connected directly to a mains outlet and to the existing telephone or junction box. Two connectors on the cradle allow for the recharging of the handset batteries. It is recommended that this be done overnight for an eight hour period.

The hand set is light, attractive and not unlike a conventional phone in appearance. From top to bottom the unit features a power on/off switch, an RX volume control and an antenna. Centrally placed is a conventional push button dialling pad with a last number re-dialling system. Just below this are two LEDs — one to show the unit is in the 'talk' mode and the other to warn you that the ni-cad battery is low. A talk/standby locking switch is featured below the microphone and at the very bottom is a remote charging jack for use should you be unable to return the handset to the base unit.

An extremely useful little extra is the provision of a belt clip which enables the user to carry the phone while leaving the hands free for more important tasks.

There is a TX volume control in the form of an adjustable screw on the

CORDLESS PHONE REVIEW DATA PANEL

Model MAXCOM
Distributor AMT
Typical Price £99

Features	Yes	No
Rechargeable Batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IN?USE Lamp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intercom Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Auto Redial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Privacy Button	<input type="checkbox"/>	<input checked="" type="checkbox"/>
External Antenna Facility	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security Code	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hand Free Operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Range	200m	

FREQUENCIES

49Mhz
1.7Mhz

CORDLESS PHONE REVIEW DATA PANEL

Model MAXCALL
Distributor OCT
Typical Price £116

Features	Yes	No
Rechargeable Batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IN?USE Lamp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intercom Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Auto Redial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Privacy Button	<input type="checkbox"/>	<input checked="" type="checkbox"/>
External Antenna Facility	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security Code	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hand Free Operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Range	100m	

FREQUENCIES

49Mhz
1.7Mhz

Maxcom

Maxcom are a well known manufacturer of CB equipment with an offering of six models currently on the market. Perhaps not so well known is that fact that they also make and market a popular cordless telephone.

As with all models on the market at present the Maxcom cordless phone operates on the illegal 49Mhz frequency. However, Maxon Europe — the parent company — will, over the next twelve months, be marketing no less than six approved telephones including two legal cordless phones. Until then...

The Maxcom 49Mhz cordless telephone is, without a doubt, a handsome piece of equipment. Like its

Conclusion

Cordless phones are a very worthwhile addition to the ever increasing field of communications equipment and, when they are legal, I shall be among the first to buy one. A considerable increase in range is desirable as well as a need for the manufacturers to allay any remaining fears that someone else could gain access to your phone. In the meantime the Maxcom is a good buy. At £99 it is very competitively priced to similar models and has the advantage — as with most Maxcom equipment — of being reliable and well styled.

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

FREE

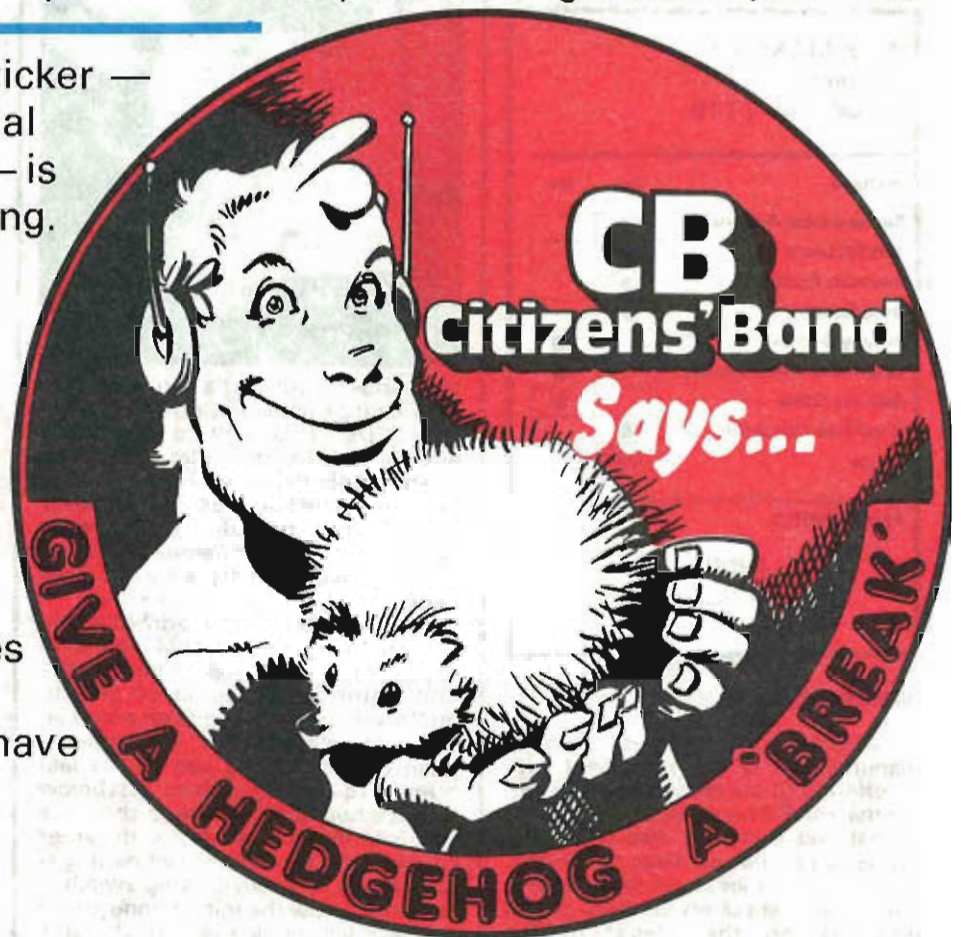
SPECIAL OFFER HEDGEHOG CAR STICKER FOR READERS OF CITIZENS' BAND

SPECIAL OFFER

As we have told you in the past **Citizens' Band** is a fully paid-up member of the **British Hedgehog Preservation Society** and we aim to do our bit to ensure that the Great British Hedgehog is preserved. We asked **John Richardson** — that gifted creator of **Twong** — to design us a car sticker that you CBers would be proud to place in the old wrapper window. A limited number have now been printed and they are waiting here for you.

The inside window sticker — reproduced here actual size in all of its glory — is yours free for the asking. Simply send us a stamped addressed envelope — at **least 4 by 4 inches** — and we will do the rest.

Don't delay as supplies are fairly limited and we want you to have one. Another **Citizens' Band** first!



Please mark your envelopes clearly
'HEDGEHOG OFFER'
and post it off to
Citizens' Band,

145 Charing Cross Road, London WC2H 0EE



By way of a change for this month we are taking extracts from the many letters received. The postbag was bulging and we thought we would try to give more readers a break . . .

Less Male!

First off CJ of Chesire writes to say . . . I enjoy reading your magazine and would love to submit some real, down-to-earth material for you to use as most of your contributors are male. Philladelphia Judd - she's a lady - would love to hear from you CJ.

Channel 9

Mr. K. R. Pont from Eastbourne has something to say to the knockers of Channel 9 monitoring services . . . This service is run by volunteers, often thin on the ground. They cover the 9 to the best of their ability with some people covering for three to four hours at a time for seven days a week throughout the year. Until we get more breakers to become monitors and can educate CBers to respect channel 9 — or get it legalised — I regret that some hours cannot be covered. Contact your local monitoring organisation and offer your help.

Bad Buddies

Mr. J. Odins of Taunton isn't very happy with his experience of CB . . . I joined the club here in Taunton to get some modulation with different breakers but what a disappointment! Everybody seems to have their own 'breaker buddies' and calling for a copy was greeted by empty silence. If that is the meaning of friends over the airways I do not want to know. I have

even put my rig up for sale. That is strange - CBers are usually keen for a chat and to help new breakers.

Search Team?

Chris Lee from Romford in Essex has this to say about a recent search operation for a missing child . . . The organisation was excellent and I must congratulate everyone involved. Channel 2 and 30 were used and during the weekend many areas were searched thoroughly. Breakers came from as far away as Hertfordshire and Middlesex to help. Everyone was well behaved for a change. Coordination between base and mobiles was superb. In my view a team of experienced and trained breakers is needed for future searches. If any reader would like to form part of such a team write to me at: 315, High Road, Chadwell Heath, Romford, Essex.

Well Done Scruffy!

Remember Mr. Stanhope's letter where he mentioned a dog helping in a rescue and I asked how? Well his letter from Leicester explains . . . When the man in question was found, my dog Scruffy was lying on top of him to keep him warm. The man was very cold and the ambulance man said that, if the dog had not been keeping his warm he would have certainly died. She did her best for him and the dog, being white, showed the ambulance man just where the man was laying on the dark road. Thanks Mr Stanhope for your nice letter.

Independent Ears!

Elliot Anderson also from Leicester had this to say . . . I monitor channel 9 all day until midnight, I am not a club member or a registered monitor but I do listen out for any call for help. I have been with CB before FM was even thought about.

Out Of Order

And finally a word from Ernest C. Hancock of the South London Monitors . . . I agree one hundred

percent that channel 9 is not substitute for the emergency service. But Sparks - April CB - should realise that out of the hundreds of call boxes in London many have been vandalised or are out of order. Channel 9 can be used to enable a home based monitor to get on the phone when an accident has been reported. So surely Sparks and other breakers can give one channel to this cause. Let us keep channel 9 the Emergency Channel and let's have it made legal!

All Alone

Mr. M. Taylor of Bexley has just returned from a holiday in Japan and says . . . While there I bought a Japanese rig. It is on 903/904 MHz and is a better and cheaper system than 934. It has 80 channels and transmits your own digit call sign. Could you please put me in contact with anyone else who has got one so that we can form a club. Sounds fine - but not a lot of people about to talk to is there?

REACT Fan

A junior breaker Ian Molyneux in Derbyshire writes a strong letter . . . I am writing to you because of the complaints REACT gets. Really I am fully in support of REACT and their help. I have heard them a few times and they really do seem good. So if any of you REACT people are reading - Well done! And well said Ian.

A Big Thank You

Mrs C A Morris of the Alsager & District REACT asks . . . May we say thank you to all of the fantastic breakers who supported us with their calls and donations in aid of our efforts on a sponsored modulations to raise money for CB equipment for blind and handicapped people. Thank you for keeping channel 37 clear for us. And thanks to all of those who tried to copy us and were able to do so.

All for this month, keep them coming and do remember to include your name and address.



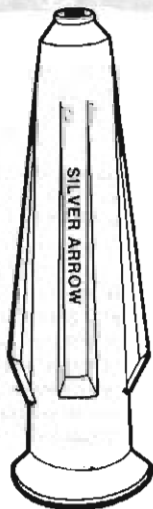
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MARK II
LOADED
COIL IN
NEW
PLASTIC
MOULD**



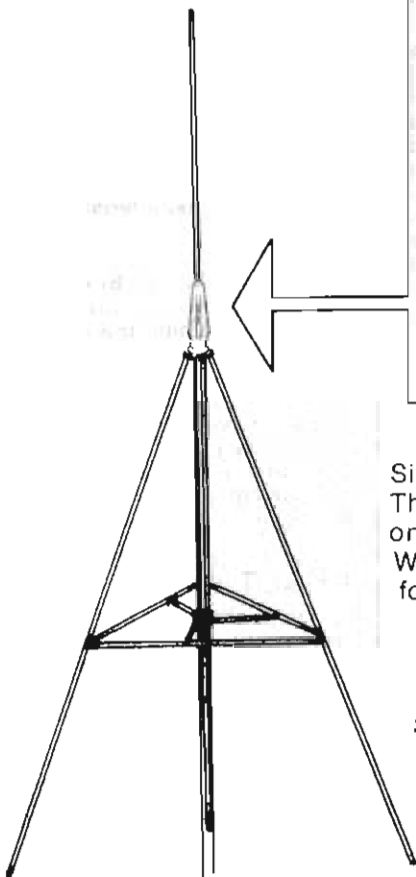
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With extra bracings
for strength on the
ground planes.

Recommended
price

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Postage £3.75



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CLUB NEWS

Patriotic fervour has gripped a little country to the West of England, they've gone raving mad, club news from up and down the little principality has been flooding in. If they'd sent any pictures we could say 'here are the prints of Wales', but as it is we'll just say 'Here is the news, with Taffy reading it . . .'

Well, swipe me with a leak, the news from the valleys has been pouring in. Yes folks, those wonderful Welsh people have been feverishly clubbing it and, like all good Citizens' Band readers, jotting down their news and sending it to us. So first let's hear from the *Halfway Breakers Club* and their PRO, a lady with a lovely name of Marianne Warner . . .

I'm Swiss Roll, PRO for the Halfway Breakers Club. We've been going for almost a year now and, after the first few teething troubles, it's been a great success. During the winter we had lots of foxhunts and so far we haven't lost a fox.

As I write it's spring and we're having treasure hunts and mystery trips — something for the ankle snappers to enjoy. Our 'rock and roll' night went down very well and so did our Christmas dance. To celebrate the club's first birthday we're going to do something different — a medieval banquet at Cardiff Castle (love to see the photos — Ed).

We meet every other Wednesday at the Old Brewery, Eglwys Brewis Street, Llantwit Major — absolutely everyone's welcome to come along. By the way, through reading your magazine a breaker with the RAF in Germany has been in contact with us and will be joining our club when he and his wife move to the area shortly.

Open House Breakers sounds like the name of a firm of liberal larcenists. It is though, the title given to a club of Cbers from Mid-Glamorgan. Pontyclun to be precise. They also have a delightful lady PRO, a princess of Wales in her own right, Diana Tedstone . . .

Open House Breakers has now been established over twelve months. Our AGM took place recently and re-affirmed our charity work commitment to a local hospital ward for mentally and physically handicapped children. Over £350 was raised last year with sponsored darts and disco, pubcrawl, jumble sale etc. With this money we purchased items for the ward and presented them to the hospital at our annual dance. Next year we hope to be able to collect even more money for the ward. The dance, incidentally was a roaring success

with over 150 people attending, including Breakers from other local CB clubs. Special thanks to the lady members for providing an excellent buffet.

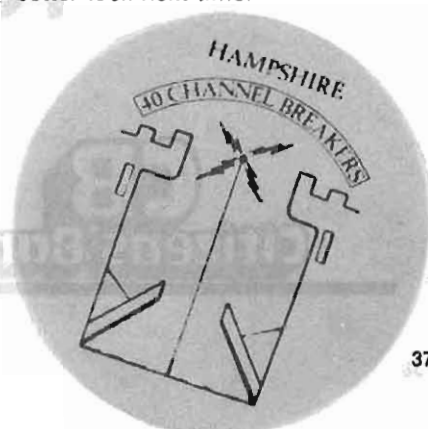
Channel 20 FM Sunday evenings 8pm until 9pm is Open House News and Info, with CB news local and general, details of all the local CB clubs, forthcoming CB events etc. This venture is proving to be most popular with breakers over a wide area. At the time of writing the service has been running for about six weeks and there are now nine CB clubs contributing. Our 'hotline' number for anyone interested in this service or wishing to contribute items of news is **Clantrisant (0433) 229171**, and ask for "Sneezy".

934 Mhz has a keenly interested following among some of our club members, who await developments eagerly. No-one has acquired any equipment as yet as there doesn't appear to be an outlet in South Wales, but I'm sure the system will be fully tested as soon as the bits and pieces start to appear.

Before I sign off I'd just like to extend a warm welcome to any Breakers over sixteen not just in the Talbot Green area, but from anywhere "If you're passing by, drop in with Dil"

**Diana Tedstone,
Open House Breakers,
16 Lanelay Park,
Talbot Green,
Pontyclun,
Mid Glamorgan CF7 8HZ**

And finally on the Welsh front comes news of a CB club from Welshpool. Trouble is, Clive Emberton, the chap who wrote to tell us about it, forgot to say the name of the club. Never mind boyo, better luck next time.



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 KAISER ELECTRONICS36
 KNIGHT CB13
 MAGPIE ELECTRONICS8
 MICRO ELECTRONIC SYSTEMS8
 OCTOBC
 SKYLAB CB12
 S.M.C.....16
 TELECOMMS4,5
 UNIACE12

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G.A.P. Skyleader 5/8 wave	£18.95
Gamma SupaMag	£7.50
G.A.P. Avenger	£19.95
G.A.P. Lofty	T.B.A.
G.A.P. RingoPlane	£T.B.A.

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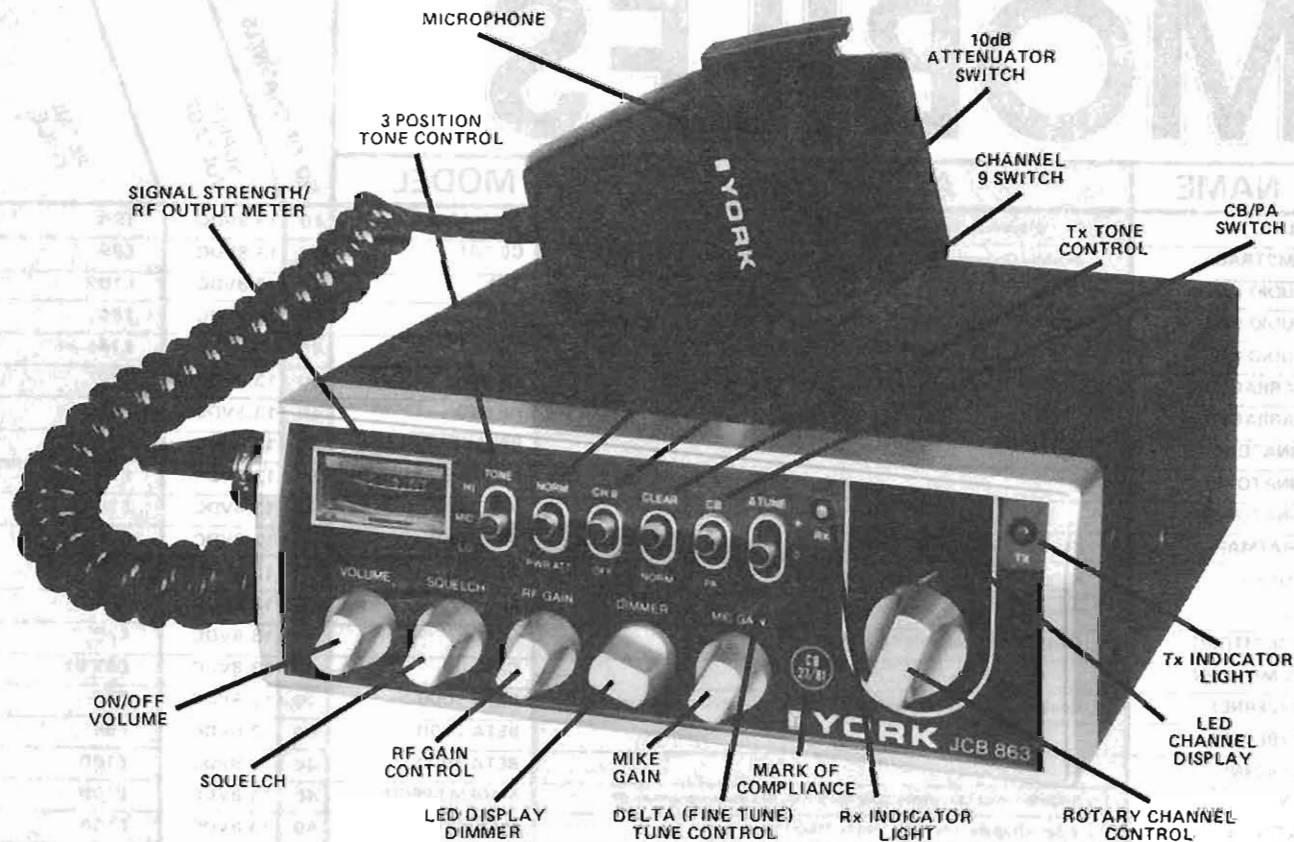
Address

Signature Date



Citizens' Band

REFERENCE SECTION



SQUELCH

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

RF GAIN

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

SIGNAL STRENGTH/RF METER

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

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

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

NOISE BLANKER

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

LEDS (RX TX)

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

PA/CB

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

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

MIC. GAIN.

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

HI/LO

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

CHANNEL SELECTOR

This is the knob that you use to change channels.

CHANNEL INDICATOR

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

CH 9 PRIORITY

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

FM RIG CHECKLIST

MOBILES

NAME	ADDRESSES	MODEL	NO. OF CHANNELS		RETAIL PRICE
				SUPPLY VOLTAGE	
ALBA	Alba (Electronics) Ltd, Bull Lane, Edmonton N18	CBMI 40	40	13.8VDC	TBA
AMSTRAD	Amstrad Consumer Electronics, 1-7 Gernan Road, London N17	CB 901	40	13.8VDC	£89
AUDIO LINE		341	40	13.8VDC	£106
AUDIO LINE	CB Radio Centre, 337 Kenton Rd, Harrow Middx	340	40	13.8VDC	£80
AUDIO LINE		342	40	13.2VDC	£149.95
BARRACUDA	Halfords Motor Accessory Shops	GT 868	40	13.8VDC	£70
BARRACUDA		HP 940	40	13.8VDC	£85
BINATONE	Binatone House, Beresford Av, Wembley, Middx	BREAKERPHONE	40	13.8VDC	£99
BINATONE		ROUTE 66	40	13.8VDC	£79.95
BINATONE		5-STAR	40	13.8VDC	£100
BRAEMAR	Geminex Overseas, 348 Kings Rd, SW3 5UZ	BRAEMAR	40	13.8VDC	£TBA
COBRA	Mura (UK) Ltd, High Rd, Willesdon, NW10	21 X FM	40	13.8VDC	£79
COLT	Shellpost, 183 The Rock, Bury, Lancs	295	40	13.8VDC	£80
COMMTRON	Roger D, 831 Mansfield Rd, Notts	CB40F	40	13.8VDC	£70
COMMTRON		CXX	40	13.8VDC	£69.95
CYBERNET	Goodmans Loudspeakers Ltd, Oownley Road, Havant, Hants PO0 2NL	BETA 1000	40	13.8VDC	£70
CYBERNET		BETA 2000	40	13.8VDC	£85
CYBERNET		BETA 3000	40	13.8VDC	£100
DNT	Radiotechnics Ltd, Grove Way Bel Royal, St Lawrence Jersey CI	M40FM SPECIAL	40	13.8VDC	£100
ELFTONE	4 Beresford Av, Wembley, Middx, HA0 1YA	ELCB 6000	40	13.8VDC	£TBA
EUROCOMM	Zycomm Electronics, Ripley, Derbyshire	EURO 40	40	13.8VDC	£69
FIDELITY	Fidelity Radio Ltd, Victoria Rd, London NW10	CB 1000M	40	13.8VDC	£70
FIDELITY		CB 2000M	40	13.8VDC	£90
FIDELITY		20001 FM	40	13.8VDC	£70
GRANDSTAND	Bee-Ware Ltd, Ripon Way, Harrogate, N. Yorks	BLUEBIRD	40	13.8VDC	£90
GRANDSTAND		HAWK	40	13.8VDC	£80
GRANDSTAND		GEMINI	40	13.8VDC	£122
GREAT	Brittania Trading, Northern Rd, Sudbury, Suffolk	GT 858B	40	13.8VDC	£65
HARRIER	Dixons Photographic Ltd.	CB MOBILE	40	13.8VDC	£49
HARRIER		CB X	40	13.8VDC	£89.99
HARVARD	Harris Overseas Ltd, Harvard House, 14-16 Thames Rd, Barking, Essex	400M	40	13.8VDC	£80
HARVARD		402 MPA	40	13.8VDC	£69.95
HARVARD		H403 GOOD BUDDY	40	13.8VDC	£50
HARVARD		420M	40	13.8VDC	£100
INTERCEPTOR	Chelsea CB Centre, 73-77 Britannia Rd, London	INTERCEPTOR	40	13.8VDC	£80
INTERCEPTOR		TC400	40	13.8VDC	£95
INTERCEPTOR		ONE HANDER	40	13.8VDC	£100
JOHNSON	Star Warehouse, Chalk Farm Rd, London	JOHNSON	40	13.8VDC	£50
JWR	Wolfe House, Norse Rd, Bedford MK41 0LF	M2	40	13.8VDC	£60
JWR		M3	40	13.8VDC	£90
KAISER	Kaiser Electronics Nevrottsstrasse 21-25, Waldorf Baden, W. Germany	UK 40	40	13.8VDC	£TBA
LADYLINE	Market Drayton, Salop	QUASAR	40	13.8VDC	£80
LAKE	Roger D, 831 Mansfield Rd, Nottingham NG5 3GF	MANXMAN 850	40	13.8VDC	£32.50
LAKE		MANXMAN 950	40	13.8VDC	£37.50

REFERENCE

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

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



REFERENCE

MOBILES

NAME	ADDRESSES	MODEL	NO. OF CHANNELS	SUPPLY VOLTAGE	RETAIL PRICE
LCL	LCL Imports Ltd, 101 Dions Green, Dudley, W. Midlands	2740	40	13.8VDC	£80
LCL		COMMUNICATOR	40	13.8VDC	£95
LOWE	Lowe Electronics, Matlock, Derbyshire	TX40	40	13.8VDC	£60
MAGPIE	Maggie Electronics PO Box 35, Andover, Hants SP10 2LG	AUTOSCAN 6000	40	13.8VDC	£120
MAXCDM	A.M. Telecommunications, AM House, 17 Shepherds Way,	4E	40	13.8VDC	£60
MAXCOM	Rickmansworth Herts	6E	40	13.8VDC	£48
MAXCOM		20E	40	13.8VDC	£50
MAXCOM		21E	40	13.8VDC	£60
MAXCOM		16E	40	13.8VDC	£40
MICROLINK	Warman-Freed Ltd, 82 Golders Gr Rd. NW11	CB401	40	13.8VDC	£115
MIDLAND	Pluetronics Ltd, Hampstalls Ln, Newcastle-under-Lyme, Staffs	2001	40	13.8VDC	£70
MIDLAND		3001	40	13.8VDC	£80
MIDLAND		4001	40	13.8VDC	£80
MIDLAND		2001 T	40	13.8VDC	£100
MUSTANG	KB & Co. Ltd, 202 Choetham Hill Rd, M/cr.	CB1000	40	13.8VDC	£49.95
MUSTANG		CB2000	40	13.8VDC	£59.95
MUSTANG		CB3000	40	13.8VDC	£69.95
NATO	Roger D. 631 Mansfield Rd, Nottingham NG5 3GF	40M	40	13.8VDC	£69.95
NATO		2000	40	13.8VDC	£189.95
OSCAR	S.M.C. Osborne House, Totton, Southampton	OSCAR1	40	13.8VDC	£85
RADIOMOBILE	Goodwood Wks, North Circular Rd, London NW2 7JS	201	40	13.8VDC	£80.90
RADIDMOBILE		202	40	13.8VDC	£120
REFTEC	RF Technology, Leyton Avenue Ind Est, Mildenhall, Suffolk	934	20	13.8VDC	£200
ROTEL	Rotel Hi-Fi, 2-4 Erica Rd, Stacey Bushes, Milton Keynes	RVC 220	40	13.8VDC	£50
ROTEL		RVC 230	40	13.8VDC	£70
ROTEL		RVC 240	40	13.8VDC	£90
SAPPHIRE	CB Services, 97 Creb Lane, Harrogate, North Yorks.	2000X	40	13.8VDC	£68
SHOGUN	Colliers Fm, Frelth, Hanley-on-Thames, Oxon, RG6 5NR	SHOGUN	40	13.8VDC	£100
SIRTEL	24 Alfrie Sq, Off Maxwell Rd, Woodstan Ind Est, Peterborough	SEARCHER	40	13.8VDC	£40
SPIRIT	Martellor Sound Ltd, Haywood Way, Ivyhouse Lane, Hastings	SPIRIT	40	12VDC	£100
STEEPLETONE	Park End Works, Coughton, Nr. Blackley, Northants	SCB1FM	40	13.8VDC	£103
TANDY	Tame Way Tower, Bridge St, Walsall, Staffs	TRC2001	40	13.8VDC	£80
TANDY		TRC2002	40	13.8VDC	£70
TANDY		TRC2000	40	13.8VDC	£100
TANDY		TRC1004	40	12VDC	£79
TANDY		TRC2003	40	13.8VDC	£130
TENVOX	Voxon Audio Ltd, Abingdon, Oxon	TENVOX	40	13.8VDC	£100
UNIDEN	Crevenmaster Ltd, 31 Madoc St, Llandudno	UNI ACE 100	40	13.8VDC	£59.95
UNIDEN		UNI ACE 200	40	13.8VDC	£79.95
VIPER	Radio 88, Berking, Essex	VIPER 88	40	13.8VDC	£18A
WAGNER	Knight Communications Ltd Unit 19 Britannia Est, Leagrove Rd, Luton	9000	40	13.8VDC	£59.95
WAGNER		COMPACT 40	40	13.8VDC	£25
WESTERN	Western Electronics, Fairfield Estate, Louth, Norris	COMPACT 40	40	13.8VDC	£34.60
YORK	Salkin (UK) Ltd, 73 Grosvenor Street, London W1X 9DD.	JCB 881	40	13.8VDC	£59
YORK		JCB 883	40	13.8VDC	£89

REFERENCE



SQUELCH	NB SWITCH	ANL SWITCH	MIKE GAIN	RF GAIN	TOPE CONTROL	S/RF METER	S/RF LED R/O	HI/LO OUTPUT	PA FACILITY	EX. SPEAKER JACK	TX IND. LIGHT	RX IND. LIGHT	CH 9 SWITCH	MIKE POSITION	COMMENTS	
•					•	•		•		•				FL		LCL
•				•	•	•		•		•				FL		LCL
•				•		•		•		•		•		FL		LOWE
•			•	•		•		•	•	•			•	FR	New Rig	MAGPIE
•						•		•	•	•				FL	Maxon chassis	MAXCOM
•				•		•		•		•				FL		MAXCOM
•						•		•		•				FL		MAXCOM
•						•		•		•				FL		MAXCOM
•						•		•		•				FL		MAXCOM
•				•		•		•	•	•		•		FL		MICROLINK
•						•		•	•	•				FL		MIDLAND
•				•		•		•	•	•				FL		MIDLAND
•			•	•		•		•	•	•				FL		MIDLAND
•						•		•	•	•				FL	The talking rig	MIDLAND
•						•		•	•	•		•		FL		MUSTANG
•				•	•	•		•	•	•		•		FL		MUSTANG
•				•	•	•		•	•	•		•		FL		MUSTANG
•	•	•		•	•	•		•	•	•				SL		NATO
•						•		•	•	•				SL		NATO
•						•		•	•	•			•	SL	Cybernet 134 chassis	OSCAR
•						•		•	•	•				FL	Cybernet chassis	RADIOMOBILE
•				•	•	•		•	•	•		•		FL	Report Sep '81	RADIOMOBILE
•						•		•	•	•				FR	934 MHz—Still waiting!	REFTEC
•						•		•	•	•				FL	Cybernet chassis	ROTEL
•				•	•	•		•	•	•				FL	Cybernet chassis	ROTEL
•			•	•	•	•		•	•	•		•		SL	Cybernet chassis	ROTEL
•						•		•	•	•		•		FL		SAPPHIRE
•				•	•	•		•	•	•				SL	Up market elegance Report June '92	SHOGUN
•						•		•	•	•				SL		SIRTEL
•						•		•	•	•		•		FR		SPIRIT
•						•		•	•	•		•		FL		STEEPLETONE
•						•		•	•	•				SL		TANDY
•						•		•	•	•				SL		TANDY
•			•	•		•		•	•	•				SL		TANDY
•						•		•	•	•				SL		TANDY
•						•		•	•	•				—		TANDY
•						•		•	•	•			•	SL		TENOVOK
•						•		•	•	•				SL		UNIDEN
•			•	•	•	•		•	•	•		•		SL	Report coming soon	UNIDEN
•				•		•		•	•	•		•		FL		VIPER
•				•		•		•	•	•		•		FL		WAGNER
•						•		•	•	•		•		FL		WAGNER
•						•		•	•	•		•		FL		WESTERN
•				•	•	•		•	•	•				SL	Report Oct '81	YORK
•			•	•	•	•		•	•	•		•	•	SL	Cybernet 134 chassis	YORK

REFERENCE

BASE STATIONS

BASES



NAME	ADDRESSES	MODEL	NO. OF CHANNELS	SUPPLY VOLTAGE	RETAIL PRICE
DNT	Radiotechnics Ltd, Grove Way, Bel Royal, St Lawrence Jersey CI.	B40	40	240VAC	£TBA
DNT		B2740	40	240VAC	£TBA
DNT		B5040	40	240VAC	£TBA
FIDELITY	Fidelity Radio Ltd, Victoria Rd, London NW10	CB 300M	40	240VAC	£TBA
GRANDSTAND	Bee-Ware Ltd, Ripon Way, Haregate, N.Yorks	BASE	40	240VAC	£220
HARRIER	Dixons Photographic Ltd.	CB HQ	40	240VAC	£130
HARVARD	Harris Overseas Ltd, Harvard House, 14-18 Thames Rd, Barking Essex	H407	40	240VAC	£125
HARVARD		H401	40	240VAC	£149.95
JOHNSON	Star Warehouse Chalk Farm Rd, London	XK 2000	40	240VAC	£99
JWR	Woolfe House, Norse Rd, Bedford	DIPLOMAT	40	240VAC	£194
MIDLAND	Plustronix Ltd, Hempstalls Ln, Newcastle-under-Lyme, Staffs.	76-200	40	240VAC	£150
MURPHY	Murphy Electronics, Wembley, Middlesex	BASE	40	240VAC	£100
SPIRIT	Martello Sound Ltd, Haywood Way, Ivyhouse Lane, Hastings, Sussex	SPIRIT	40	240VAC	£100
WAGNER	Knight Communications Ltd, Unit 19 Britannia Estate, Leegrove Rd, Luton LU3 1BJ	BASE	40	240VAC	£150

PORTABLES

NAME	ADDRESSES	MODEL	NO. OF CHANNELS	SUPPLY VOLTAGE	RETAIL PRICE
BEAR	Air Bear(UK) Ltd, Wortley, Sheffield	RHB 35	3	BATTERIES	£44
BINATONE	Binatone House, Beresford Avenue, Wembley, Middlesex	LONGRANGER	40	BATTERIES	£59.95
DNT	Radiotechnics Ltd, Grove Way, Bel Royal, St Lawrence Jersey CI	HF 12/3	3	BATTERIES	£47.55
ELFTONE	4 Beresford Av, Wembley, Middx.	CB30	2	BATTERIES	£TBA
ELFTONE		P-3	3	BATTERIES	£TBA
HARRIER	Dixons Photographic Ltd	WT1	2	BATTERY	£25
HARRIER		WT2	40	BATTERY	£59.99
HARVARD	Harris Overseas Ltd, Harvard House, 14-18 Thames Rd, Barking Essex	0-2-0	2	BATTERY	£20
HARVARD		410T	40	8xAA cells	£69.95
HARVARD		10-4 CONVOY	2	BATTERY	£19.95
HARVARD		H6	2	BATTERY	£29.96
KAISER	Kaiser Electronics Nevrotstrasse 21-25, Waldorf Barden, W. Germany	CBX40	40	BATTERY	£TBA
MAXCOM	A.T.M. A.M. House 9a Olds Approach, Tolpits Lane, Watford Herts.	7E	3	BATTERY	£TBA
MIDLAND	Plustronix Ltd, Hempstalls Ln, Newcastle-under-Lyme, Staffs.	76-720	40	12VDC	£59.95
TANDY	Tame Way Tower, Bridge St, Walsall	TRC1001	40	BATTERY	£119

HAND HELDS



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



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

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



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

ANTENNA CHECKLIST

Here's a brief intro

Name

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

Construction

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

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

NAME	ADDRESSES	MODEL	CONSTRUCTION	LENGTH	MAX POWER	TYPE	MOUNT	PRICE RANGE
ALLCOM		DPA 2UK	AL	1.5	100	M	-	E
AMSTRAD	Amstrad Consumer Electronics, 1-7 Gamman Rd, London N17	CBA 1500	SS	1.5	-		Various	C
ANTENNA INC.		12510 Telecomm	SS	0.9	-	M	3/4ths Mag	D
		Super Persuader	SS	1.5	-	M	Mag	F
		MR511	SS	1.2	-	M	Mag	G
		M710	SS	1.5	-	M	3/4ths	G
		AS M125	SS	1.14	150	M	3/4"	C
		AS M128	SS	1.14	150	M	-	C
ANTENNA SPECIALISTS	Antiference Ltd, Aylesbury, Bucks HP19 3BJ	AS M131	SS	1.14	150	M	gutter	D
		AS MR 440	SS	1.2	100	M	mag	D
		AS MT17B	SS	1.2	150	M	mag	D
		AS M510	SS	1.2	200	M	3/4"	D
		AS M2000	SS	1.5	150	M	3/4"	D
		AS 9812	SS	1.2	150	M	mag	D
		IC 85	SS	1M	-	M	mag	D
		IC 80	SS	1M	-	M	spring-based mag	E
		IC 15	SS	1	-	M	trunk	C
ANTLER	Shakespeare, Performance Antennas, Boston Rd, Market Drayton, Salop	IC 20	SS	1 1/4	-	M	roof	D
		IC 30	SS	1	-	M	gutter	D
		IC 40	SS	1 1/4	-	M	mirror	E
		IC 80	SS	1 1/4	-	M	mag	D
ARCHER	Tandy Corp., Tame Way Tower, Ilbridge St, Walsall, W.Mkd.	21-904	SS	0.5	50	M	3/4" snap	D
ARMSTRONG	Stateside Trading Ltd., Audley Ave, Newport, Shropshs.	SAM 10	SS	1.06	1,000	M	surface	F
		SAM 20	SS	1.06	1,000	M	surface with spring	F
		TAK 10	SS	1.06	1,000	M	boot lip	F
		TAK 20	SS	1.06	1,000	M	boot lip with spring	G
		MAG 10	SS	1.06	1,000	M	magnetic	G
		MAG 20	SS	1.06	1,000	M	magnetic with spring	G
		8DY 20	SS	1.08	1,000	M	side & fold	G
		PEC 20	SS	1.06	1,000	M	over & quick disconnect	G
		TAK 101	SS	1.06	1,000	M	boot lip illuminator	G
AVANTI	Avanti, 132 Paristone Rd Nth, Sheffield, Yorks.	AV 241 (Moonraker)	SS	1.22	-	M	stud	D
		AV 241 T	SS	1.22	-	M	trunk	E
		AV 241 M	SS	1.22	-	M	mag	E
		AV 241 MM	SS	1.22	-	M	super mag	G
BADLAND	Badland, Roeten Ind Est, Providence St, Lya, Stourbridge.	B10	SS	1.22	-	M	mag	G
BANDIT	Bandit, Rougham Ind Est, Bury St Edmunds, Surrey.	B10	SS	1.42	-	M	mag	G
		B16	SS	0.61	-	M	mag	F
		B16	SS	1.22	-	M	mag	F
		B20	SS	1.42	-	M	mirror	F
		B30	SS	1.42	-	M	drill-thru	E
		B30	SS	1.22	-	M	drill-thru	E
		B40	SS	1.42	-	M	various	D
		B40	SS	1.22	-	M	various	D
		B50	SS	1.42	-	M	various	D
		B50	SS	1.22	-	M	various	D
C. BRIT	C Brit, Unit 3 5 East Lane, Wembley, Middx.	Stingray Whiplash	AL SS	1.5 1.6	500 25	B M	pole 3/4"	H C
CT INTERNATIONAL	CT International, CTE (UK) Ltd Unit 3, Mitcham Ind Est, 85 Streatham Rd, Mitcham, Surrey.	MG27	SS	0.91	-	M	mag	C
DIAL-A-MATCH		Rubber Duck	R	0.3	-	M	3/4"	C
		530 (Cherokee)	SS	0.81	-	M	-	F
		531 HBF	SS	0.81	-	M	-	F
		531 SMF	SS	0.61	-	M	-	F
		540	SS	1.22	-	M	-	E
		541 HBF	SS	1.22	-	M	-	E
		541 SMF	SS	1.22	-	M	-	E
		520 (Halfbreed)	SS	1.27	-	M	-	E

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

and stainless steel home based antennas.

Length

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

Maximum power

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

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

Type

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

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

Mount

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

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

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

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

NAME	ADDRESSES	MODEL	CONSTRUCTION	LENGTH	MAX POWER	TYPE	MOUNT	PRICE RANGE
DIGITEK UK LTD	179-181 Streatham Rd, Mitcham, Surrey	Falcon 27	SS	1.6	-	M	various	D
DIXONS	Dixons Photographic	Harrier	SS	0.9	-	M	Mag	D
HOT ROD 200	Hot Rod 200, Stateside Trading Ltd, Audley Avenue, Newport, Shropshire	FM UK	SS	1.27	-	M	1/2" x 1/2"	B
FREEMAN & PARDOW	Freeman & Pardow, Tything Rd, Arden Forest Ind Est, Alcester Warwick	The Invader The Thunderpole	AL AL	1.6 1.6	250 500	B B	pole pole	E F
CB SERVICES	97, Crab Lane, Harrowgate, N. Yorks HG1 3BQ	Bullwhip Knuckleduster	SS AL	1.6 1.5	- -	M B	various -	C D
MIOWEST		Dial-a-tune Dial-a-tune	SS SS	0.61 1.22	500 -	M M	various various	C O
MOCOM	Mocom, Moto Communications Ltd, 140 Sandy Lane, Camphill, Birmingham	Revco	SS	1	-	M	various	B
MOTOROLA	Motorola, Taylors Rd, Stotsfold, Hitchin, Herts.	EC106M	-	1.6	-	M	-	F
OCT.	Unit 1 Earlsfield Lane Ind, Estate, Grantham, Lincs.	K40 Z27	SS SS	1.4 1.45	500 200	M M	various various	G B
PAN INTERNATIONAL		Pan Mobile 260	SS	1.25	-	M	clamp	-
PANORAMA	Panorama, 73 Wadham Rd, London SW15 2LS	CB27	-	1.22	-	M	mag	B
PRIDOW		KT40	SS	1.5	-	M	trunk	C
SHIRA		SYS 206M SYS 203C MA 62	SS FG -	1 0.75 0.91	- - -	M M M	mag trunk -	C C C
SIRTEL	Sirtel, 24 Alfric Sq, off Maxwell Rd, Woodston Ind. Est. Peterborough	GP Messenger GP Signal Keeper	SS SS	1.8 1.5	- -	B B	clamp tripod	E F
SMC	Oscar, South Midlands Communications, Osborn House, Totton Southampton, SO4 4DN	Oscar Base CBA 11GP Oscar Base IIVHS Oscar IICM Oscar IICE Oscar IINE Oscar IISE Oscar TMCAS	SS SS SS SS SS SS SS	1.6 1.6 1.2 1.2 1.6 1.6 1	- - - - - - -	B B M M M M M	- - mag foldover base 'pull-up' foldover base locking collar foldover base trunk	F D B C C B
SPYDER		Spyder	AL	1.6	-	B	pole	tt
TAGRA	Europasonic (UK) Ltd, Britannia Works Building, Sherburne St, Manchester	T40	SS	1.4	500	M	various	E
THOROBRED	ZL Communications, Cantley, Nr. Norwich, Norfolk	251 Z27 Locktune	SS SS SS	1.6 1.6 1.6	- - -	M M M	various 1/2" various	C B C
WITCHSTICK	CJM Motor Factors, Hill Farm Ave, Leavesden, Watford, Herts. 09273-73646	Witchstick homebase	AL	1.6	-	B	-	E
WTA ELECTRONICS	111 Cromer Rd, Hellesdon, Norwich, Norfolk	Wot Pole Wot Mag	AL SS	1.6 1.6	- -	B M	pole mag	C C
VAN ORDT	Van Ordt, Knight CB Specialist, 204 Dunstable Rd, Luton, Beds	Audio King AKO-100	SS	1.6	2000	M	1/2"	G

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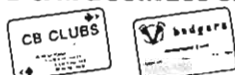
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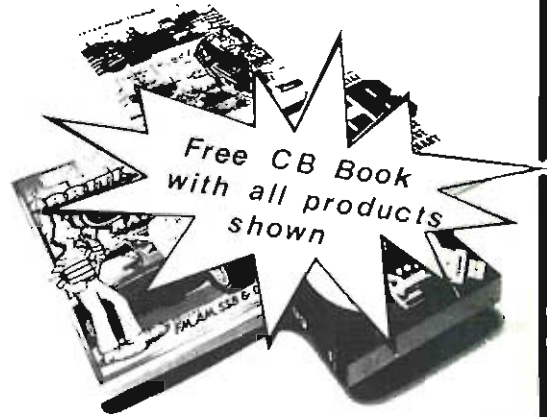
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