

# CB RADIO

ISSUE No 12  
**JUNE 81**  
**60p MONTHLY**



**The British Breakers Mag.**

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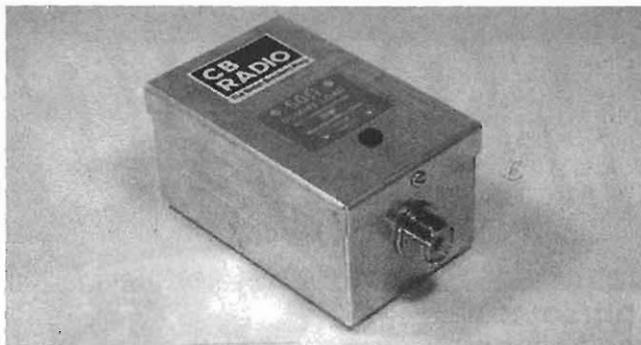
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### IMPORTANT

AS A MAGAZINE WE CANNOT CONDONE THE USE OF ILLEGAL 27MHz EQUIPMENT NOR IS THIS PUBLICATION INTENDED TO ENCOURAGE THE USE OF SUCH OR ANY OTHER ILLEGAL EQUIPMENT CAPABLE OF TRANSMITTING OR RECEIVING. WE DO NOT ACCEPT RESPONSIBILITY FOR ANYTHING PUBLISHED WITHIN OUR PAGES NOR ANY DAMAGE HOWEVER CAUSED. - IRRESPONSIBLE AREN'T WE!

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### THIS MONTH'S FRONT COVER

The "General Lee" number 01 photographed here at the Birmingham Exhibition Centre. This is one of five vehicles used to film the American T.V. series "The Dukes of Hazzard". One of the T.V. programs where the use of CB Radio is most prolific. Needless-to-say the rig was removed before it was shipped over from the States. The significance of '01' being that this is our First Anniversary Issue. Photograph by Zodiac (Breakerway Ltd), Newport Gwent.

# The Home Office Draft

## The performance specification for 27MHz FM and 934 MHz FM

In our May issue last month we told you that the draft was due soon, and that with all things, bureaucratic time meant very little, we had naturally hoped to include the rough specification in that issue but, alas, time was not on our side.

The rough draft was delayed and eventually arrived via slightly devious channels on our desk just before the bank holiday a neatly timed ten days after the May issue was already on the press, neatly timed by fate or HMG who knows!

### The Drafts for 27MHz & 934MHz

Firstly we should explain that the draft is twenty-five pages and is as yet not a firm specification, do not be misled into thinking that equipment will appear on the shelves in a few weeks time. It won't and can't, this draft could be changed, although with previous frequencies the finished specification has rarely differed.

It is released now in this rough form so that manufacturers can study and examine the equipment and tooling required along with the possible performance and of course financial viability. Tests can then be carried out under licence in accordance with this draft to ensure that the equipment meets the requirements.

Only then can the manufacturer or importer apply for his licence, if granted all his transceivers would carry a certification of compliance with the Home Office specifications, and only then could the transceivers appear on the British market.

## Home Office Radio Regulatory Department Performance Specification for Angle modulated 27 MHz radio equipment for use in the Citizens Band Radio Service

### FOREWORD

1. Citizen's Band Radio, a personal two-way radio system, is available for use throughout the United Kingdom. It operates in the 27 MHz waveband and the 930 MHz waveband.

2. The Wireless Telegraphy Act 1949 provides that no radio equipment may be installed or used except under the authority of the Secretary of State. All citizens band radio equipment, whether hand held, mobile or base station, must be covered by a licence; it is a condition of this that the apparatus fulfills, and is maintained to, certain minimum technical standards. This specification sets out these standards for 27 MHz FM equipment; 934 MHz FM equipment is subject to a separate specification.

3. The manufacturer, assembler, or importer of citizens band equipment is responsible for ensuring that the apparatus conforms with the specification; and any additional requirements imposed by regulations under the Wireless Telegraphy Act 1949. Conformity with the required standards may be established by tests carried out by the manufacturer, assembler or importer.

### 1 GENERAL

#### 1.1 Scope of Specification

This specification covers the minimum performance requirements for angle modulated radio equipments, comprising base station, mobile and hand held transmitters and receivers or receivers only and additionally any accessories eg attenuators, power amplifiers, vehicle adaptors for optional use with the above for use in the Citizens Band Radio service.

For all equipments covered by this specification, the nominal separation between adjacent channel carrier frequencies is 10 kHz.

#### 1.2 Permitted effective radiated power

The output radio frequency power of the equipment is limited to 4W. With the antenna permitted for use with the equipment this gives an effective radiated power of 2W.

If an antenna is mounted at a height exceeding 10m the licence will require a reduction in transmitter power of 10dB. To enable the user to accomplish this easily the equipment manufacturer should provide as a standard accessory an attenuator having a nominal attenuation of 10dB, which may be purchased by the licensee.

#### 1.3 Operating frequencies

The equipment shall provide for transmission and reception only of frequency modulated emissions on one or more of the following radio frequency channels:

Channel	MHz	Channel	MHz
1	27.60125	21	27.80125
2	27.61125	22	27.81125
3	27.62125	23	27.82125
4	27.63125	24	27.83125
5	27.64125	25	27.84125
6	27.65125	26	27.85125
7	27.66125	27	27.86125
8	27.67125	28	27.87125
9	27.68125	29	27.88125
10	27.69125	30	27.89125
11	27.70125	31	27.90125
12	27.71125	32	27.91125
13	27.72125	33	27.92125
14	27.73125	34	27.93125
15	27.74125	35	27.94125
16	27.75125	36	27.95125
17	27.76125	37	27.96125
18	27.77125	38	27.97125
19	27.78125	39	27.98125
20	27.79125	40	27.99125

Citizens band radio equipment shall not contain facilities for transmission of radio frequencies other than those listed above, and those contained in MPT.

Single channel equipment may be tested on any one of the approved channels. Multi-channel equipment shall be equipped to operate at the centre, and the upper and lower limits of the frequency range over which channel switching is possible.



Queen Anne's Gate London SW1H 9AT

#### 1.4 Permitted modulation

Only equipment which employs frequency or phase modulation and has no facilities for any other form of modulation will meet the requirements of this specification.

#### 1.5 Labelling

The equipment shall be provided with a clear indication of the type number and name of the manufacturer.

#### 1.6 Certification of Compliance

Compliance with this specification shall be indicated by an authorised mark stamped or engraved on the front panel of the equipment.

The mark used to indicate compliance shall be as shown below:



Letter and figure height not less than 1mm

#### 1.7 Controls

Those controls, which if maladjusted might increase the interfering potentialities of the equipment, shall not be easily accessible.

## Home Office Radio Regulatory Department Performance Specification of Angle modulated 934 MHz radio equipment for use in the Citizens Band Radio Service

### FOREWORD

1. Citizen's Band Radio, a personal two-way radio system, is available for use throughout the United Kingdom. It operates in the 27 MHz waveband and the 930 MHz waveband.

2. The Wireless Telegraphy Act 1949 provides that no radio equipment may be installed or used except under the authority of the Secretary of State. All citizens band radio equipment, whether hand held, mobile or base station, must be covered by a licence; it is a condition of this that the apparatus fulfils, and is maintained to, certain technical standards. This specification sets out these standards for 934 MHz FM equipment; 27 MHz FM equipment is subject to a separate specification.

3. The manufacturer, assembler, or importer of citizens band equipment is responsible for ensuring that the apparatus conforms with the specification; and any additional requirements imposed by regulations under the Wireless Telegraphy Act 1949. Conformity with the required standards may be established by tests carried out by the manufacturer, assembler or importer, or by a reputable test establishment acting on his behalf, but in either case conformity with the specification will remain the responsibility of the manufacturer, assembler or importer.

### 1 GENERAL

#### 1.1 Scope of specification

This specification covers the minimum performance requirements for angle

modulated radio equipments, comprising base station, mobile and hand held transmitters and receivers or receivers only and additionally any accessories, for example power amplifiers, attenuators, vehicle adaptors for optional use with the above for use in the Citizens Band Radio service.

For all equipments covered by this specification the nominal separation between adjacent channel carrier frequencies is 25 kHz.

#### 1.2 Permitted Effective Radiated Power

The output radio frequency power of the equipment is limited to 8W for equipment which has terminals for connection of a separate antenna.

With the antenna permitted for use with this equipment this gives a maximum effective radiated power of 25W.

For equipment with an integral antenna the effective radiated power is limited to 3W.

#### 1.3 Operating frequencies

The equipment shall provide for transmission and reception or reception only of frequency modulated emissions on one or more of the following radio frequency channels:

Channel	MHz	Channel	MHz
1	934.025	11	934.525
2	934.075	12	934.575
3	934.125	13	934.625
4	934.175	14	934.675
5	934.225	15	934.725
6	934.275	16	934.750
7	934.325	17	934.825
8	934.375	18	934.875
9	934.425	19	934.925
10	934.475	20	934.975

Citizens band radio equipment shall not contain facilities for transmission of radio frequencies other than those listed above and those contained in MPT \_\_\_\_\_

For the purposes of testing, single channel equipment may be tested on any one of the approved channels. Multi-channel equipment shall be equipped to operate at the centre, and the upper and lower limits of the frequency range over which channel switching is possible.

#### 1.4 Permitted modulation

Only equipment which employs frequency or phase modulation and has no facilities

for any other form of modulation will meet the requirements of this specification.

#### 1.5 Labelling

The equipment shall be provided with a clear indication of the type number and name of the manufacturer.

#### 1.6 Certification of compliance

Compliance with this specification shall be indicated by an authorised mark stamped or engraved on the front panel of the equipment.

The mark used to indicate compliance shall be as shown in Fig.1.



Letter and figure height not less than 1mm.

#### 1.7 Controls

Those controls, which if maladjusted might increase the interfering potentialities of the equipment, shall not be easily accessible.

## Irish Citizens Band

Citizens Band Radio (CB) is to be legalised on 27 MHz FM. This was announced by the Minister for Posts & Telegraphs for Ireland, Mr. Albert Reynolds T.D., who said that he intended publishing full details of the new licensing regulations shortly.

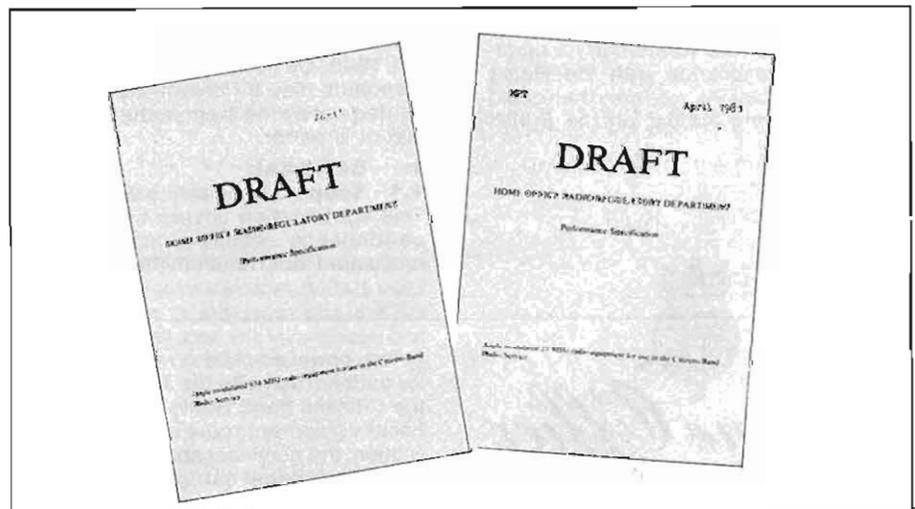
The Minister said that broadcasting on the new system will operate at 27 MHz, using frequency modulation (FM). The maximum permissible output for transmitters, which may have 40 channels, will be 4 watts.

A two-year transition period is envisaged to allow existing Amplitude Modulation equipment (AM) to be phased out.

Once the phasing out period begins, the importation of AM equipment will be made illegal.

The Minister said that he acknowledged the growing interest by young and old in CB radio throughout the country and that he believed that the new regulations would enable the activity to develop in an orderly fashion.

Issued on behalf of the Department of Posts & Telegraphs.



# “ATTENTION”

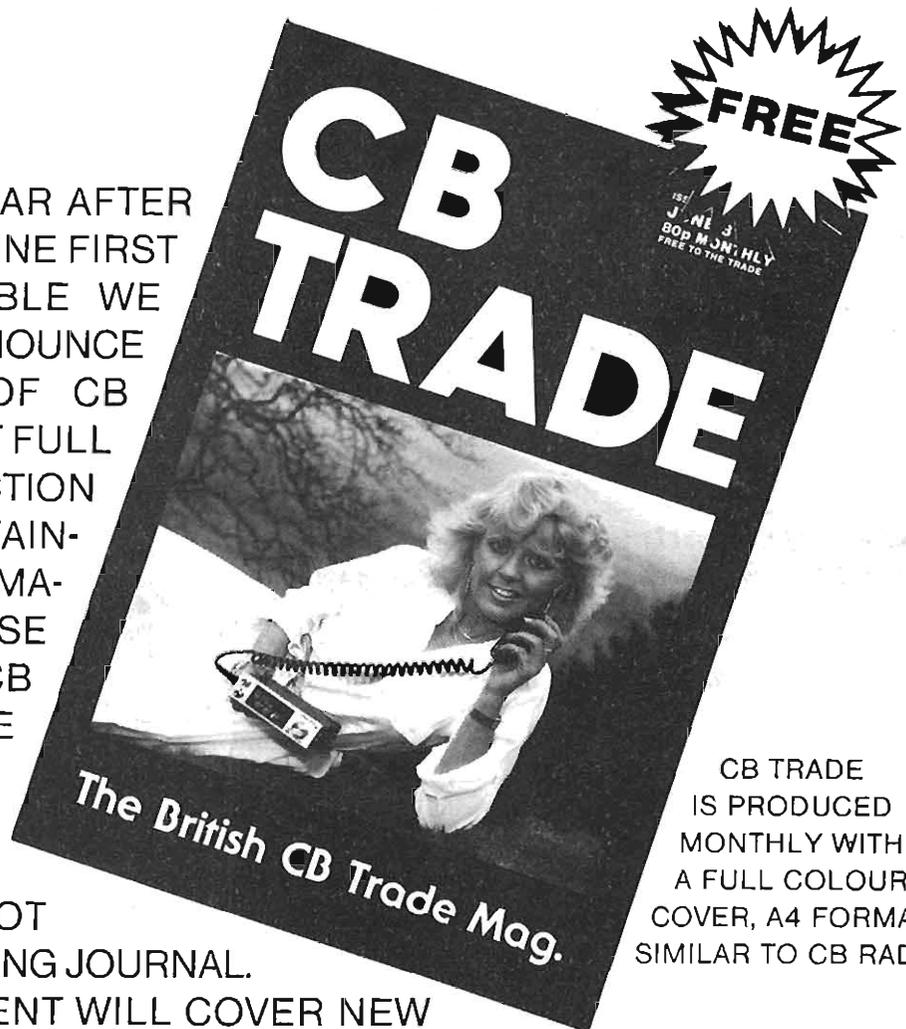
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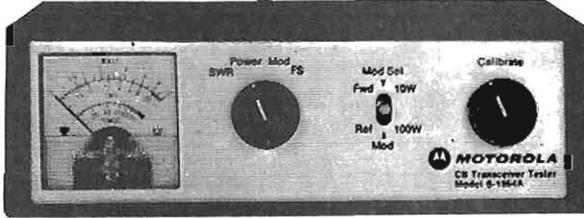
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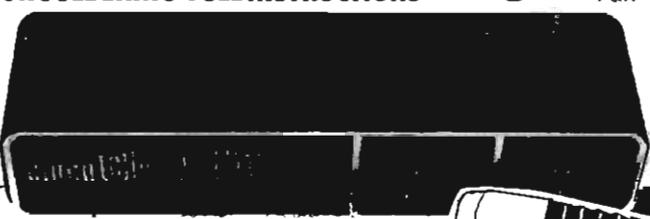
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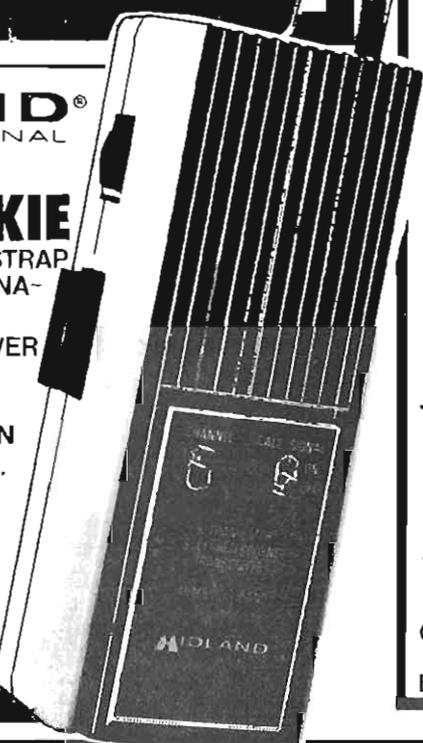


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# Antennas and Transmissions on CB Frequencies

by F.C. Judd, FISTC MIOA. Assoc. IPRE. – Part 8

## Typical Antennas for CB Radio

The most used antennas at present are the omnidirectional types which are either ground-planes or half-wave dipoles. Whilst the half-wave antenna is the most simple in terms of function it is not the easiest to match directly to a typical CB radio transmitter because the normal feed impedance at the centre of a half-wave is nominally 72 ohms. Transmitters for CB have an antenna input/output impedance of 50 ohms and therefore the feed cable and also the antenna itself must have the same impedance. Half-wave antennas used in the vertical mode can however, be fed at one end i.e., at the bottom when such an antenna is vertical and via an impedance matching system to provide the necessary 50 ohms match to the transmitter and the feed cable. Half-wave antennas vary in length at between 17 and 18 feet but can be made physically shorter by inductive loading so as to make them resonant and therefore equally efficient. The physical length of ground-plane types varies according to the length of the radiating section in terms of wavelength, most being a quarter-wavelength or approximately 8ft. 6ins., although there are so called five-eighths of a wavelength models and others which are either inductively loaded or entirely helically wound so as to simulate resonance.

## Base Station Antennas

There are of course literally dozens of different types to choose from and most are similar in function but not necessarily in physical appearance. One popular half-wave omnidirectional vertical antenna is the *ASP Starduster, model 800* shown in fig. 1 which might be considered as a form of sleeve matched dipole owing to its peculiar design. A good example of an inductively loaded half-wave is the British made *Big Jim 27* shown in fig. 2. This is about 10 feet long and is matched for 50 ohms by a helical stub system at the base. Most base station antennas are of course for roof top or mast mounting but being omnidirectional there are few, if any, that have any directivity gain. In fact all normal half-wave antennas and virtually all ground plane types have *unity gain* as already explained in my previous article. The dipole itself is normally used as a reference by which the performance of other antennas can be compared.

Real antenna *directivity gain* can normally only be obtained from parasitic or colinear systems, i.e., beam

Fig. 1: The ASP M800 Starduster omni-directional base station antenna (27MHz).

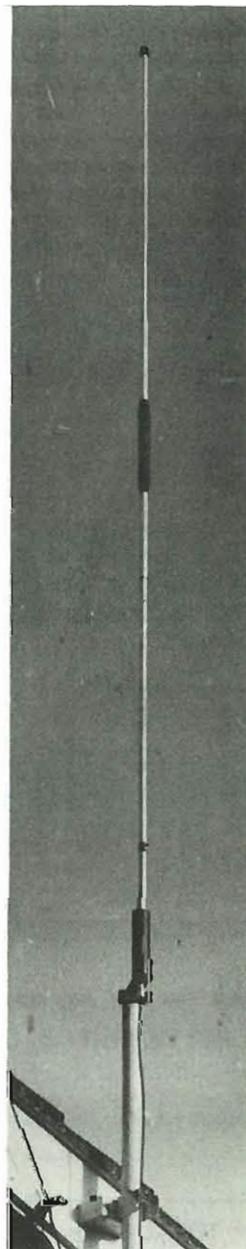


Fig. 2: The Big Jim 27 Inductively loaded half-wave base station antenna (27MHz).



antennas or stacked half-wave collinear omnidirectionals. Uni-directional beam antennas are usually so highly directive that it is necessary to be able to rotate them. A typical parasitic beam for 27MHz by Shakespeare is shown in fig.3. Such antennas are also operated in horizontal mode particularly for long distance working. The radiation pattern of this antenna and which is also typical of others of a similar type, is shown in fig.4. Parasitic beams of this nature are often called Yagi antennas so named after the Japanese designer Dr. Yagi, who invented the parasitic element system.

There are many 'ground-plane' type antennas available but normally and because of the small physical length of the radials the radiation is usually concentrated at an angle that has the effect of reducing the transmitted power along a path parallel to ground. A well designed ground-plane antenna is the ASP Pole Cat M417 shown in fig.5 distributed by Telecommunications Accessories Limited.

## Antennas for Mobile Operation

Most antennas for mobile use rely on the ground-plane effect which is provided by the metal body of the car. Antennas for mobile operation also have to be physically short for safety reasons and are therefore mostly inductively loaded to resonate at a quarter-wavelength. The short length of such antennas together with the small ground-plane area of the average sized vehicle also has the effect of reducing the overall efficiency and again this problem of radiation at high angle with respect to ground. Mobile antennas that function as tuned quarter-wave ground-plane types will not work on cars or other vehicles such as caravans made of fibreglass. The same applies to boats made of fibreglass. Where there is insufficient ground-plane area, as on a motor cycle for example, or when there is no ground-plane area at all, the only suitable antenna is a physically small 'free-space' inductively loaded type tuned to operate as a half-wave and provided with a matching system at the base for the necessary 50 ohms impedance match to the transmitter.

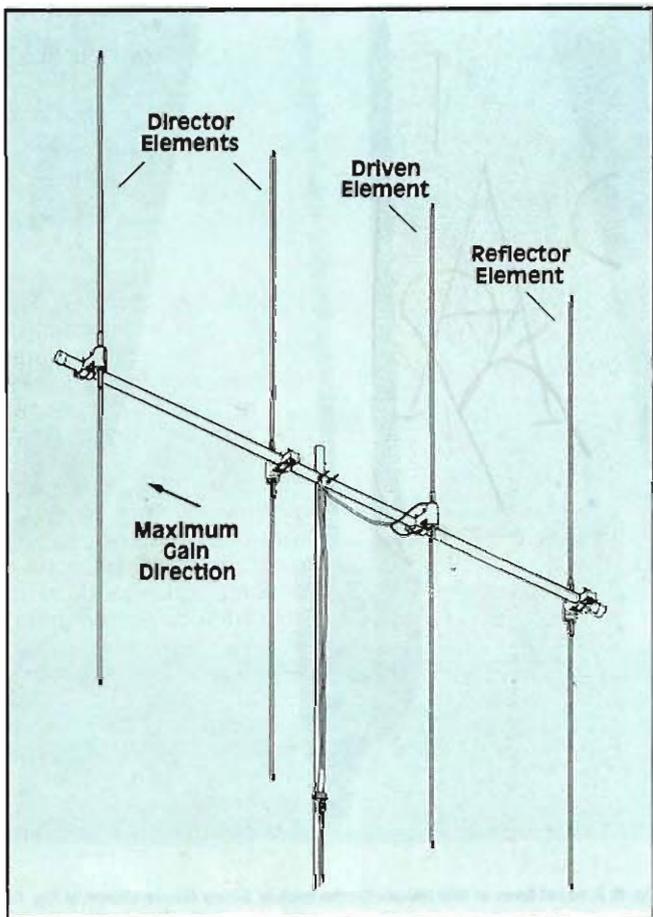


Fig. 3: A typical four element parasitic beam antenna by Shakespeare (27MHz). See also fig. 5.

There are many types of quarter-wave ground-plane mobile antennas designed for either magnetic mounting or car body mounting most of which are well known and well advertised. There are however, some helically wound type antennas which are quite efficient, one being the *Firestik Ridgerunner* model designed for bumper mounting or car body mounting and which, for either application, are available in lengths varying from 2 feet to 5 feet (see fig. 6). Another helically wound type is the new ASP 'Skinny Minnie' type M516 which is about 4 feet long. This antenna can also be side mounted on a vehicle as shown by the photograph (fig. 8).

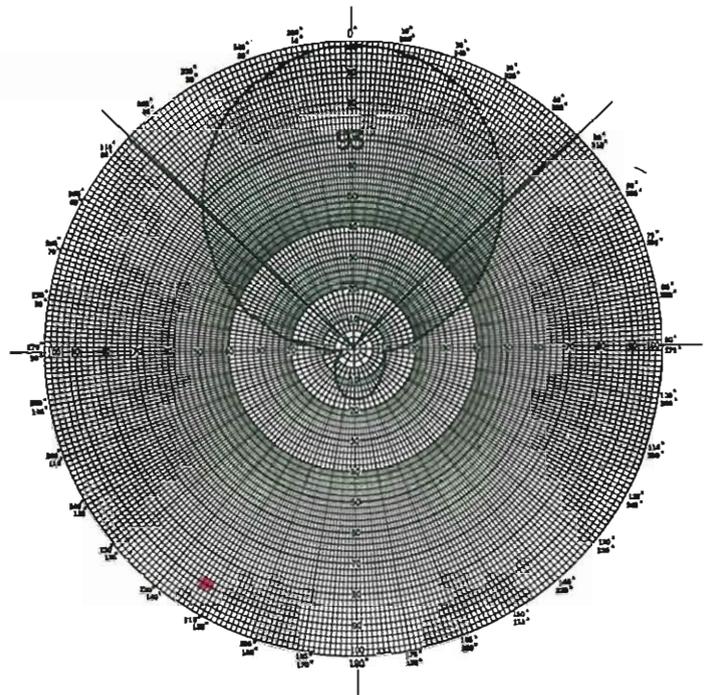


Fig. 4: The radiation pattern of the beam antenna shown in fig. 3 and which is typical of antennas of this nature.

## Indoor Base Station Antennas

Whilst there are antennas suitable for indoor use (some ground-plane types will operate reasonably well in a loft) results may not be very satisfactory because of the fairly high attenuation of both transmitted and received signals caused by brick walls and roof tops etc. Working ranges are therefore liable to be restricted and particularly so when roof tops are wet or covered by snow or frost. Any antenna intended for base station operation should preferably be outside as high as possible and well clear of walls or any materials that will conduct for example, metalised roofing, metal water pipes and guttering. Remember also that antennas mounted on the roof, or a high mast, could be blown down by a high wind, so make sure that mountings and any guy line supports are secure. It would be worth while to take out insurance against damage to your own or other peoples property which is quite likely in the event of a large antenna falling from a roof or mast.



Fig. 5: A typical ground-plane antenna by ASP. The Polecat M417 (27MHz).

# Antennas and Transmissions on CB Frequencies

## Warning about poor quality antennas

It is not entirely unknown that many antennas being imported into the UK are of poor quality, or so badly designed, that they will either not function at all or at least only very badly. Most appear to be of Far East origin and are often poor imitations of designs by well known and reputable manufacturers. Be doubtful of any antenna that is offered cheaply even though it may be labelled 'For CB Use' which could of course mean anything or nothing at all. Do not accept "gain" factors given in dB (decibels) as being absolute. Many manufacturers are making claims which, in this respect, are quite impossible. For example, no half-wave antenna can have gain except over an isotropic and which is 2.14dB. The average ground-plane will normally have less gain than a half-wave antenna. Parasitic beam antennas do have real gain factors and average figures are as follows. A two element beam with one driven element and one reflector has a gain of about 3 to

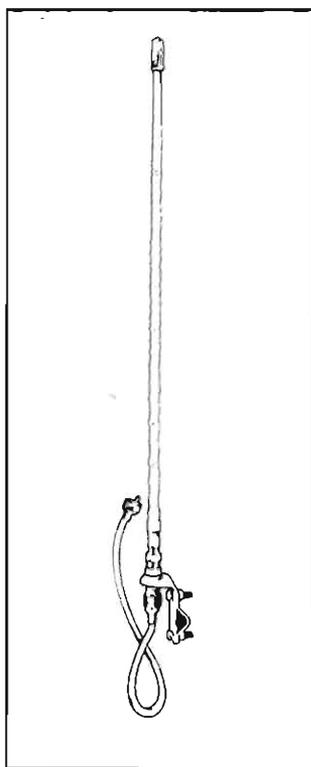


Fig. 6

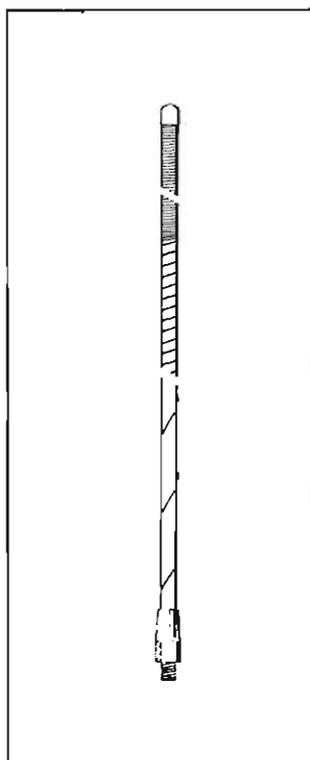


Fig. 7

Fig. 6: A helically wound Firestik mobile antenna (27MHz) designed for bumper mounting. Lengths vary from 2ft to 5ft.

Fig. 7: The ASP 'Skinny Minnie' helically wound mobile antenna. Length about 4 feet (27MHz). See fig. 8.

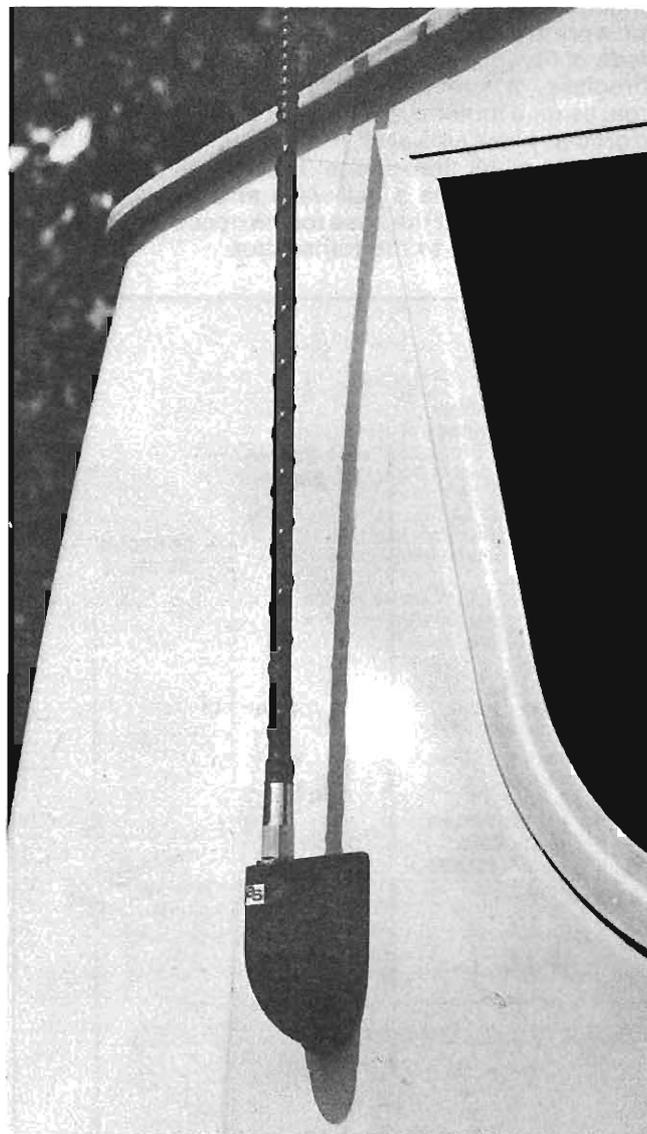


Fig. 8: A novel form of side mount for the mobile Skinny Minnie shown in Fig. 7.

3.5dB. A three element beam with one driven element, one reflector and one director has a gain of about 4 to 4.5dB. A four element beam which would have one driven element, one reflector and two directors would have a gain of 5 to 6dB. The gains quoted are with reference to a half-wave dipole when this is used as the unity gain or zero dB reference.

At the time of writing this article (February 26th) it was announced that CB radio would be legalised in the UK for FM (frequency modulation) only. Many have asked; will antennas currently being sold for 27MHz CB radio be suitable for FM transmission? The answer is **YES**. The mode of modulation i.e., FM, AM, or SSB is not affected in any way by the antenna used or by the frequency of transmission, be it 27MHz or 928MHz.

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# Dealing with Interference Problems

by E. A. Rule Part 3

## Types of Filters

**High Pass.** This type of filter will pass all frequencies above a certain design frequency and reject those which are lower, and is normally fitted into the receiver feeder system close to the actual receiver aerial input socket. The actual practical form of this type of filter can take many different forms and a number of examples will be given. They are reasonably easy to make but there are commercial types available for those who prefer to buy a ready made one. If you intend fitting one of these to your neighbour's receiver it is important that the finished filter looks 'nice', a tatty jumble of components hanging from the back of your neighbour's receiver will not instill them with confidence! A neat unit will.

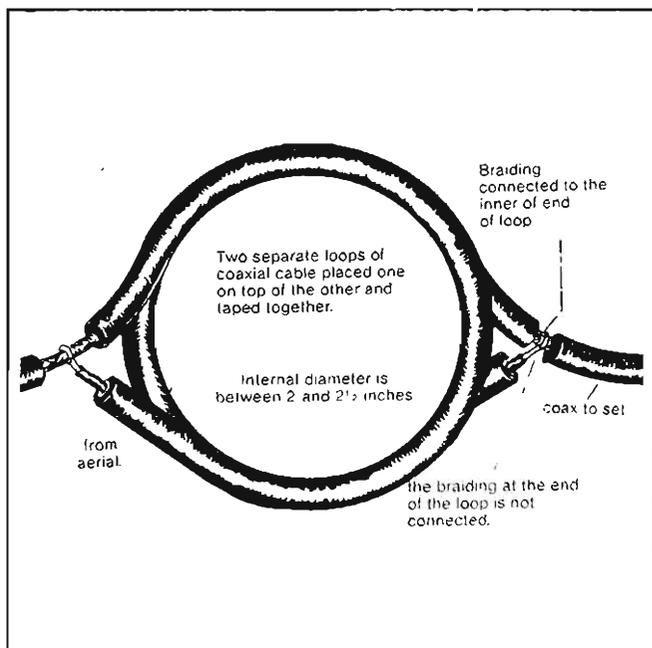


Fig.3: Showing construction of the simple filter described in the text. This filter is suitable for insertion in the VHF TV band receiver aerial only.

Let us deal with the older type VHF (405 line) TV's first. A simple filter made up out of two loops of TV feeder will often be all that is required and the details are given in Fig 3. This type will couple the TV signal by induction

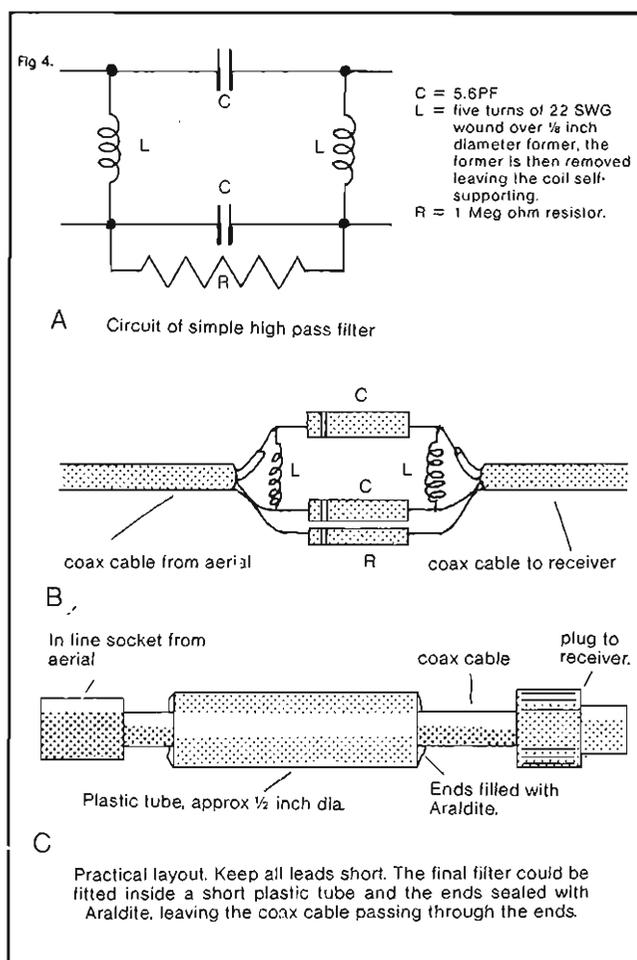


Fig 4: A suitable filter for UHF T.V. receiver.

across the two loops but has effectively broken the TV feeder from direct connection to the set. In many cases of interference to these early sets the signal got into the TV via the outer sheath copper braiding of the coax and into the wiring inside the set. Breaking the feeder stops this, but the loops allow the wanted TV signal to pass through. There is some insertion loss to the TV signal but unless you are in a fringe reception area this should not be noticeable. A very simple to make filter that is normally effective. This type is NOT suitable for UHF TV sets.

Dealing now with UHF TV receivers, a suitable filter is shown in fig 4. This effectively breaks the feeder connection similar to our VHF one and also provides a reasonably sharp cut off below about 450MHz as shown in fig 5. In constructing this type of filter, all leads must be as short as practical and the lead from the filter to the TV normally not more than a few inches in length, although sometimes this type of filter works better a couple of meters away. This type is NOT suitable for VHF TV sets. In severe cases of interference two of these filters in series may be better, however there is some insertion loss and in fringe areas the extra loss of TV signal may not be acceptable.

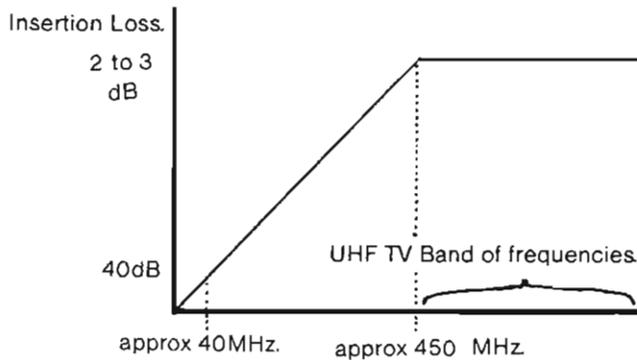


Fig. 5: Typical response of the high pass filter circuit.

Another type of filter which can be used on VHF radios, TVs, and UHF TVs. is shown in fig 6. This is very simple and simply consists of winding the receiver aerial feeder around a ring of ferrite. Suitable ferrite rings only cost a couple of pounds or less at the time of writing and with such simple construction this type of filter is well worth a try. The ferrite rings can be obtained from T&T Electronics, who also market other types of filters. This filter is a WIDEBAND type suitable for mains filtering as well, in this case the mains cable is wound through the ferrite ring instead of the feeder cable. It can also be used for Hi-Fi speaker leads and or pickups etc. This will be dealt with again in the section dealing with Hi-Fi interference problems later on. The filter works by preventing the inphase interference currents from passing through but letting the out of phase TV signals pass without loss.

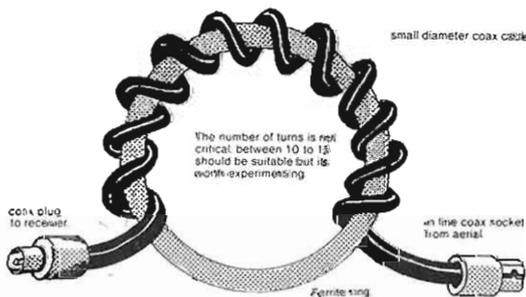


Fig. 6

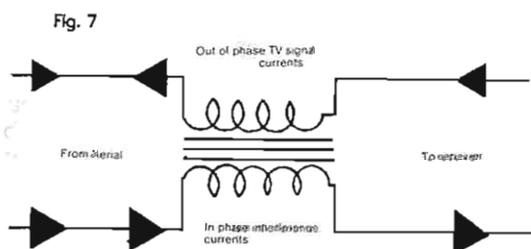
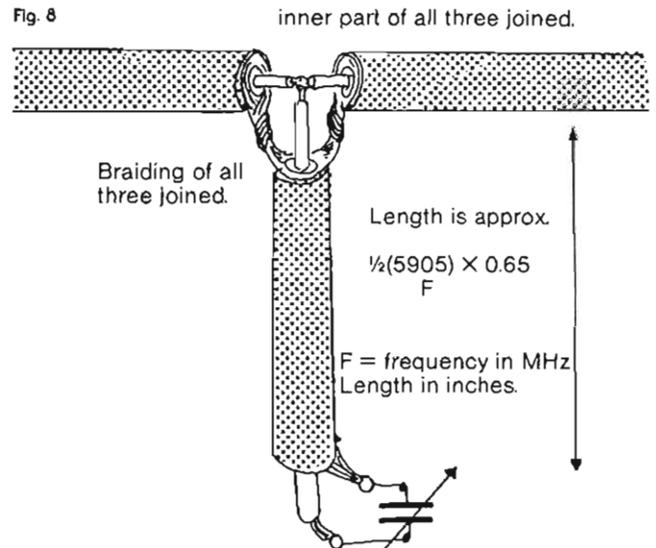


Fig. 7

Sometimes a combination of two different types of filter will work better than one or even two of the same type. A word of warning, Ferrite is brittle and should not be subjected to sharp knocks etc.

A point worth mentioning here is that where a TV aerial booster amplifier is in use (normally at the top of the mast) it may be necessary to fit a filter to its input as well as one close to the set. Fitting one to the input of the mast head amplifier will be difficult but if it is done the filter MUST be weather proof. Make sure also that any power supply feeding the mast head amplifier is not disconnected in any way. These normally supply power to the mast head amplifier via the coaxial feeder, this means that any filter must go between the TV set and feeder (its proper place anyway) and not between the point where the power supply connects and the aerial, see fig.7. The ferrite ring type of filter will not cause any problems of this type and can safely be installed at any point along the feeder, however the best place is next to the set aerial socket or input to the mast head amplifier.

The reader may be wondering at this stage why these filters work when all they seem to do is isolate the feeder cable from the set. The reason is that in the average TV aerial installation the down lead from the aerial acts like a vertical ground plain at frequencies around 14 to 30 MHz, by effectively 'breaking' this lead we prevent it acting as a receiving aerial at the transmitter frequency and injecting a very large signal into the TV. These simple filters provide a very high impedance to the lower frequencies used by the transmitter but only minimum loss at the TV frequencies they are designed for. They are also very effective in preventing signals in the 80 metre amateur band switching colour TV sets to Black and White due to blocking the local colour generator.

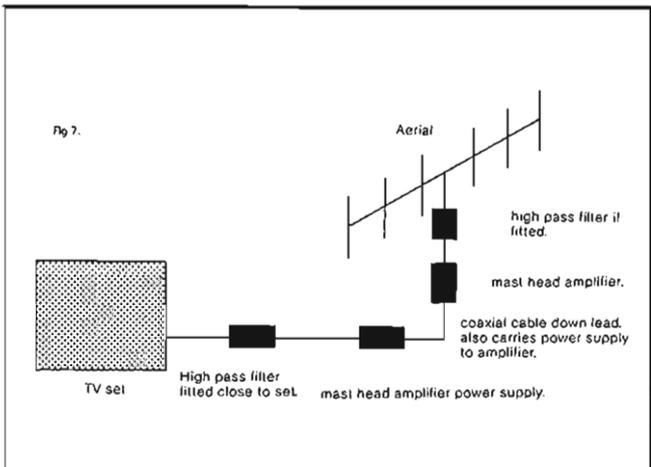


Small airspaced trimmer of around 3 to 30pF to allow stub to be tuned to required frequency. In practice this may not be required if coax is adjusted in length on actual signal by sliding the outer braiding back from the end of the inner. The 0.65 is an average constant for the velocity factor of coaxial cable, as this may vary between different types of cable, the final length of the stub may need adjusting slightly.

## Trap Filters

These consist of a length of coaxial cable cut to a special length and then having one end connected to the receiver or transmitter feeder and the other end left 'open circuit'. Although they are simple to make they are very troublesome to adjust and may also act at multiples of the frequency they were cut for. This type of filter is best left to the 'experts' and will not be fully dealt with here. However for completeness, fig 8 shows an example of one which is tunable over the range 27 to 30 MHz. The type of cable used will effect the required length and the length given is only a guide.

# Dealing with Interference Problems



## Trap Filters

This type of filter consists of a simple tuned circuit connected in series with the receiver and tuned to the frequency it is desired to reject. There are two types, the series, and the parallel. Fig 9 gives example of these.

They are best constructed in a metal box with suitable sockets for terminating the connections. They can be set up by fitting them into the aerial lead of a receiver that covers the transmitter frequency and tuning for maximum rejection and then transferring the filter, without changing the tuning, to the receiver which has the interference problem. However, if the interfering signal is being picked up on the feeder braiding this type of filter may make the problem worse.

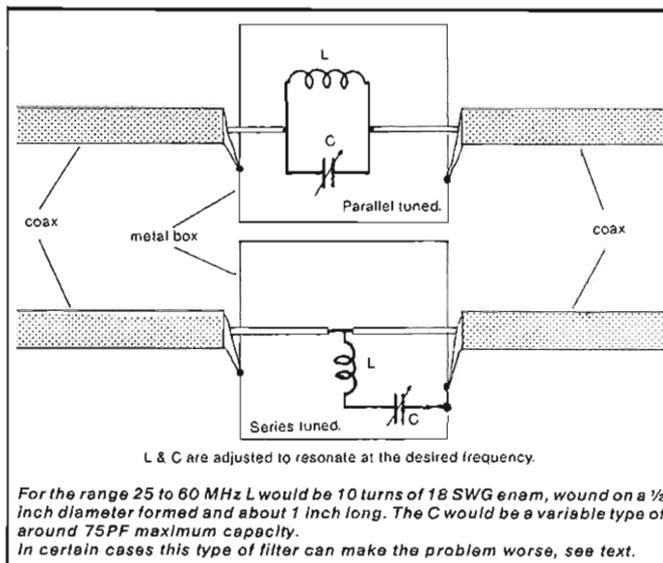


Fig.9: Series and parallel trap filters.

Next month we will consider the Low Pass Filter.

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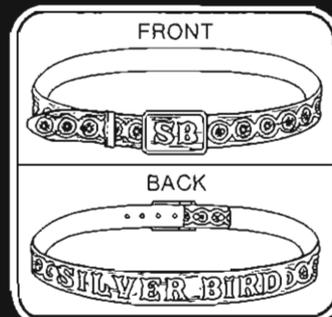
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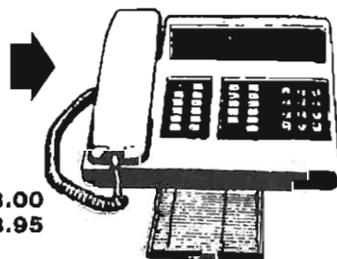
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# DX QSL

# International Club Spot



## The Sunshine State QSL Swap Club of Queensland.

Hi again, Charlie Hotel faithfully reporting for duty and bringing you another QSL club. I have been DX'ing for quite some time now but I still get asked by elitist or pure sideband DX groups "why do you bother collecting swapped QSL cards? Surely you know that a QSL card is meant only to verify a radio contact and should not be handed out willy nilly". It's not that I mind the question, it's straight forward enough and to some well worth asking, it is only when it's asked in an arrogant or scornful manner that I begin to resent it. To them I end up replying "So what?". The way I look at it is simple if you want to be a purist and really fussy about CB, then I reckon it's worth considering hanging up your boots and turning to Amateur Radio. After all, CB is a fun radio, it can be used light heartedly even if talking across the world, let's not get too serious about it. When all is said and done QSL card collecting is a nice, harmless, pleasant hobby and I bet I am not the only one who loves to put silly rubber stamps all over the place!

Well enough of this martyrdom, if I am not careful I will end up being a "serious, dedicated purist DX-QSO only QSL".

## The Sunshine State QSL Swap Club

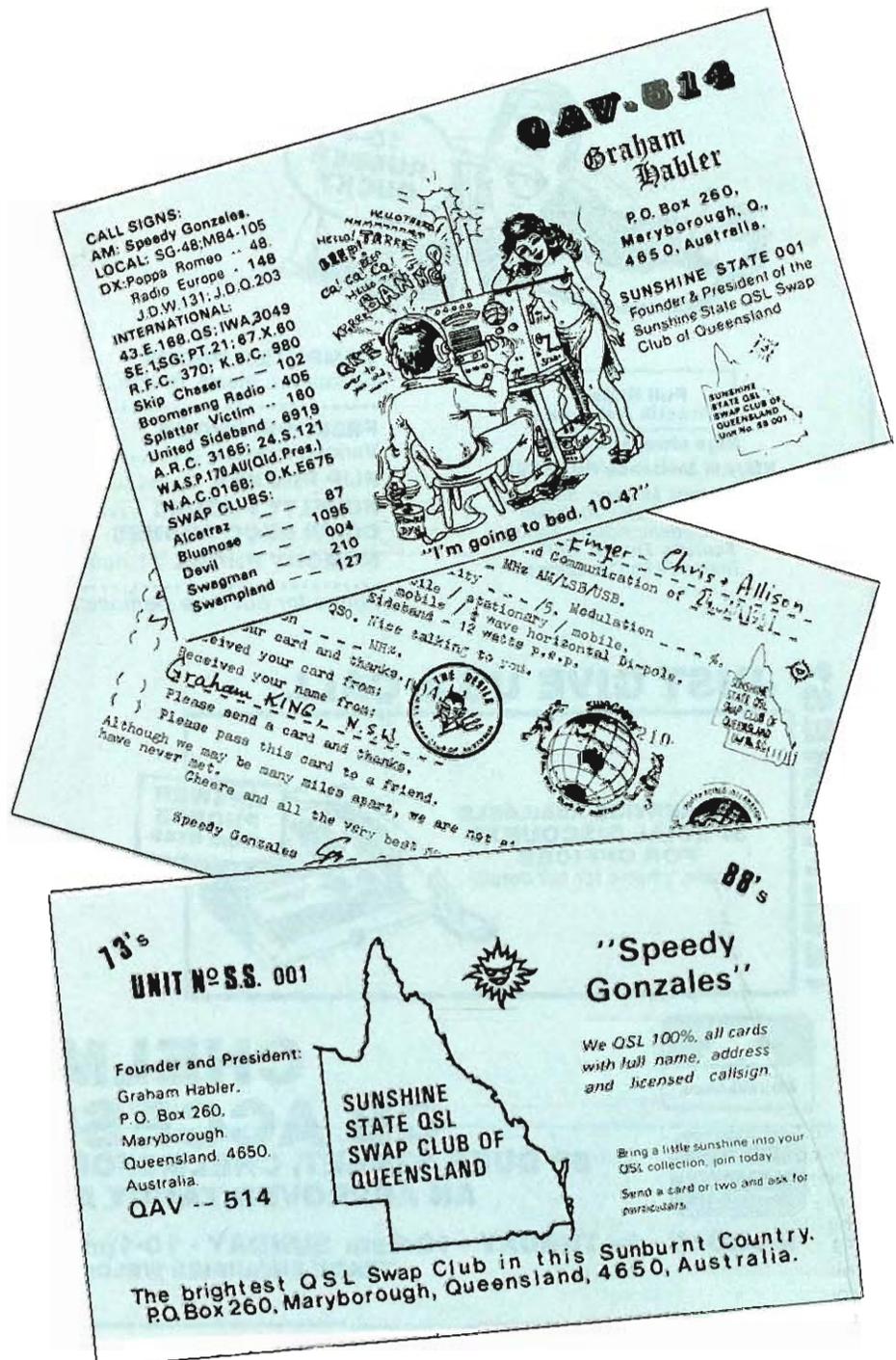
Right, without further ado it's time to behave myself. At long, long last the elusive Australian QSL club is being turned over for review by the "Charlie Hotel Heavy Mob".

The club we're looking at this month is the "Sunshine State QSL Swap Club of Queensland", in my opinion, one of Australia's premier QSL clubs.

Its location is Marlyborough, a small rural industrial city, with a population of about 25,000, situated about 20 miles from the East Coast of Queensland (all this and a Geography lesson).

The club is run by Graham Habler and his wife Elaine.

I'm not certain if the delightful female on Grahams card is Elaine or not, but the drawing is something else. Graham and Elaine have six children, two boys and four girls. Incidentally, I hope this little fact will disprove once and for all, all



those CB widows moans and groans that CB stops us fellows from leading a normal life! I wonder if this has anything to do with Grahams DX call sign - Poppa Romeo.

Graham is a keen QSL card collector and swopper. He is most certainly a 1-4-1 100% er and this attitude rubs off onto most Sunshine State members.

A very interesting spin off that Graham has introduced is his guaranteed 100% QSL list.

This is a list of names and addresses of Radio Enthusiasts who have given their word that they will QSL 100%. On receipt of a signed and dated QSL card clearly showing a full name and QSL address you may then be placed on this list. It was originally intended for Australian and New Zealand CB'ers only, but after a number of requests was extended to include any and all countries.

Incidentally, when Graham says radio enthusiasts, he really means radio enthusiasts. His list includes CB operators, amateur radio operators and even short wave listeners. In fact, anyone who has a QSL card to send provided they guarantee to QSL 100%.

Having said all this, should Graham receive any complaints against anyone listed, who after a reasonable time has failed to keep their word and return a card, they're struck off the list, pronto! No, actually just glancing at the list, I noticed some very interesting swaps, one example is:-

Paul Chan, SS Unit 244,  
"Echo Charlie",  
P.O. Box 8547,  
Sham Shui P.O.,  
Hong Kong.

How about a QSO with him then, that would certainly be a QSL to take pride of place. Summing up, the Sunshine State is a good club run in a professional, conscientious manner by its founder and president - Graham Habler.

The Sunshine State QSL Swap Club of Queensland Star Rating					
	DX QSL Star Rating	Yes First Class	Fair Second Class	Third Rate	No
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2	Distribution	★			
3	QSL Response Time	★			
4	Club Stamp	★			
5	Club QSL Cards	★			
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# 10-4 Day

Friday okay, Saturday not bad, Sunday too small!

Once more CB'ers managed to prove that the rules just don't apply.

Exhibition contractors will tell you as they did us that Friday is a reasonable attendance day, Saturday is the busy day and Sunday is normally quiet. Eight months ago when the exhibition was being arranged, I would have agreed, infact judging by attendances at demonstrations and rallies then, there was always the possibility that very few people would turn up at all.

Naturally organising any exhibition is a gamble but as the show was not intended to make a profit, we went ahead. At the time we had a monthly circulation of twenty thousand copies and we seriously wondered if the venue would be too big!

Infact the weekend before April 10th there had been an exhibition at Sandown which had less than fifteen hundred breakers turn up in its two days! So our fears of an empty venue were not as unfounded as one might think.

The photograph below was taken on Sunday at the height of the queue. Now who says CBers don't exist. Wouldn't it be nice to have seen this sort of turn out at a demonstration.

## Snowballed

Need we have worried, as the first British magazine it was indeed, a shame that we lacked the finance necessary to hire Earls Court. Instead our first exhibition had to be smaller than we would have eventually liked. The simple truth was CB in Britain had snowballed and a venue we had worried about filling soon became full, leaving us to worry about unfilling it!

## Friday - Day One

Quite simply from the moment the doors opened at 9.30 a.m., there were breakers waiting. The show was actually open from 9.30 a.m. till 8.30 p.m., but by five thirty the numbers had thinned to a mere handful.

## Saturday - Day Two

Having seen some of Fridays turnout we were beginn-



ing to worry about the numbers that could turn up, and have to queue. After all Saturday is the day, or at least we had been told it always was the day, when everyone would come. Once more the exhibition was full until around 6.00 p.m.

## Sunday - Day Three

After the madness of the Saturday rush when everybody had decided to descend on us at mid-day, we were thankful that Sunday would be much quieter! Not so, for although the exhibition was only open from 10 a.m. till 4.30 p.m. everybody, but everybody, had decided Sunday was the day to come. Sunday for us became a nightmare, the refreshments van we had requested to attend had been refused permission to operate and the hotel just could not cater for the number. Then the police started to turn people away once more because of the quantity of vehicles now converging on the airport. The only saving grace, police-wise was unfortunately the Brixton riot, if it is at all possible that such a disasterous happening can have a good side effect. Ironically if the riot had not taken up the greater majority of police time, the show would no doubt have been closed totally by the police.

## Conclusion

For the exhibitors it was on the whole a good show with a more than excellent turnout. On the Friday trade visitors came from as far away as Japan, Australia, Canada and America.

For the organisers it was a practical example of the quantity of enthusiasts and what was really required.

For the news media it created a considerable amount of interest, indeed several journalists dashed back to their office wielding photos of the crowd and declaring

"Who says there's no CB'ers?"

For those enthusiasts who came on the Sunday expecting an all day eyeball or fair as previous events have been, it was undoubtedly a disappointment, especially for those that travelled some distance only to find the exhibition packed or a seemingly endless queue.

However as the greater majority of breakers that did arrive were all for AM it has proved one thing to the public and officials. CB'ers are in abundance, as Disco One remarked, "It's a shame that all who came to the exhibition couldn't make the effort for a demonstration because if they had, there would be no AM - FM argument".

## PRIZE WINNERS

### Side Band Rig Winners

The three lucky winners of a nice new Cobra 146 GTL supplied courtesy of Lucky Numbers, 62 East Avenue, Hayes, Middx. 01-573 4848 are listed below:

**No. 03502 No. 05413 No. 01179**  
Mr. M. Knight Mr. N. Winter Mr. J. Hallett  
Northampton W/Yorkshire Devon

*To claim your prize simply phone us and identify yourself and we will either despatch by post or you can collect. Alternatively you can wait for a legal 27 FM Set.*

### Side Band for the furthest

People came to the exhibition from everywhere throughout Britain, the majority of foreign visitors were manufacturers, exporters or traders and we had to exclude their entry to this contest, quite honestly I think they already have enough rigs in Japan!

The winner of the Colonel 120 channel Upper & Lower Sideband rig supplied courtesy of Connexions, 8 Furrow Way, Cannon Lane, Maidenhead, Berks. (062-882) 4338, was a young lady from Australia. Ms. J. Wilson from Melbourne, Australia, the proof required was duly provided, one airline ticket valid for the week of the show

### A Free Holiday Weekend

The holiday for 4 was won and accepted by Mr. J. Wilcox ticket holder **No. 10188** from Chesham, Gwent. The weekend was at "Perran Sands Holiday Village", May 8th, 9th and 10th and was organised by the 21 Breakers Club.

### Hitachi Radio

A three band LW-MW-FM Car Radio was donated by Hitachi via Sound Around, 114 Ruislip Road, Greenford, Middx. **01-573 5030.**

The winner is ticket **No. 13382**, Mr Watling, Wisbech.

### Clarion Stereo Speakers

A Clarion speaker systems was donated again via Sound Around, 114 Ruislip Road, Greenford, Middx. **01-573 5030.**

The winner is ticket **No. 00506**, B E Theredge, Southampton

### Hy Gain Base Mobile

A Hy Gain Base Mobile 80 channel Hi & Low Transceiver donated by O.C.T. was also on offer and goes to ticket holder **No. 01790**, Ms. T. Davin, Leicester



# CB Registration Service

**£10 Reward . . .**  
 . . . for anybody returning the Realistic 6 channel CB removed from the Coach parked outside the Feltham Swimming Baths on Wednesday 1st April. No questions asked, I just want the set back. Contact 'Blue Horse', Middlesex Breakers Club, or phone 01-898 0574.

## A registration to combat rig theft.

Security of any vehicle is always a problem, that attractive looking stereo mounted on the dash can often entice an unwanted admirer. Theft from a motor vehicle is a crime which takes place on average in the metropolitan police area seven times every five minutes. The basis for such figures is compiled by the police and includes only those thefts which are reported.

Most breakers are reluctant to report the loss of a CB, fearing that they would only end up placing themselves in a compromising situation, thus many CB transceivers are at present stolen and no report of the theft is made.

This makes the illegal CB'er an easy target for the thief, on many instances transceivers have been removed from vehicles along with antennas and accessories, leaving behind a perfectly good stereo system.

Obviously in such instances the thief is aware of CB, even if he is not an enthusiast himself he must have contacts which are, so that he can unload the transceiver. Thus within a few days the stolen transceiver may be in the hands of a new breaker, who will have purchased without thinking for one moment that it was recently stolen.

## Nationwide Registration

Sometime ago a breaker known as the Songwriter informed us of his intention to combat this theft. His aim is to register every illegal set in Britain to an area, a breakers handle and a club if applicable. By doing so, the purchaser of a possibly suspect unboxed or used CB could verify that the seller was the rightful and registered owner, simply by checking with the registration service.

This is an admirable idea and one which could certainly help prevent theft from within CB enthusiasts circles. However, Bernie Shaw 'The Songwriter' has taken this a stage further by negotiating with the National police force to trace and record stolen transceivers. This liaison with regional police areas is already showing promise, one chief constable from the South of England said "I am obviously interested in your service and can see that there is scope for mutual assistance in the field of stolen equipment". Similarly other forces are showing a favourable interest in this scheme.

The registration fee is £1 and this is one of the main reasons we delayed printing this article, basically we thought

it best to see if the service actually got off the ground and looked like being value for money. As it has now been operational since February, we think you're in with a good chance, so if you wish to know more phone Newquay 77372 or write to:-

Bernie Shaw,  
 Citizens Band Registration Service  
 Nationwide,  
 45, Cross Close,  
 Newquay,  
 Cornwall.

**CITIZENS BAND REGISTRATION SERVICE (Nationwide)**  
 C.B.R.S. A REGISTERED COMPANY  
 Tel: Newquay 77372 (Our Motto - Support your Police and Fight Crime with C.B.) 45 Cross Close Newquay, Cornwall

Dear Sir,

This is to inform you of a new service, now available to all persons using C.B. Radio. The service is primarily designed to give Breaker's a proof of ownership registration, and to liaise with the National Police Forces in tracing and recovering stolen C.B. Radios. Because C.B. is illegal and the sets are illegally imported, no records are kept, and this means every right to expect a Breaker will find this hard looking for suspected stolen rigs, have every claim for fear of further investigation to prove as his supplier may not ratify his claim for fear of further investigation. After legalisation, the service will still be valid, as all illegally imported rigs will still have this service's documentation. The most important factor to remember, is that, without registration of serial numbers, a Breaker's illegally imported rig never existed, and in the case of that rig being stolen it will be hard to prove the fact. Our service is cheap and effectively protects a Breaker's real interests, so we hope you will convey our message to all Breaker's in your area, through your future programme, or articles on the subject.

To register a rig, all a Breaker need do is send his Handle only, his Town Twenty (raal Town), his club if any, his make and Serial No. of his rig, and £1 per rig to the above address or Tel. Newquay 77372 for details.

Yours faithfully  
 B. Shaw  
 The Songwriter

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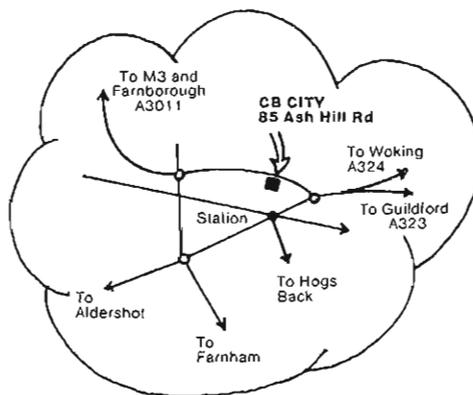
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 Name: \_\_\_\_\_  
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3. c/o A & A Autoparts, High St., Crowthorn, Berks. Tel: 03446 77113

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# Friendly Advice for Emergency Monitors

Part three of a series written by Mike Newbold.

In part 2 of our article on Emergency Monitoring we stressed the importance of the four 'C's - CALM, COURTEOUS, CORRECT and CONCISE. Almost invariably, with any Accident there is confusion albeit very brief, possibly danger and further risks. It is usually the prime function of any Emergency Operator to bring the whole situation into a workable, calm, context. It is obvious that EVERY Accident and Emergency situation will have an end product and it is the Highly trained Monitor Operator who will speed a satisfactory conclusion by using the four 'C's.

Probably the best way to become a good Emergency Monitor Operator (EMO) is to have experienced a period of attending accidents and emergencies with the statutory services, and be aware of their pattern of operations, and the demarkation lines exist between who is responsible for what.

As an EMO you are totally 'blind' as to what is happening at the scene of your 10-33, and the reporting vehicle is your 'Ears and Eyes', so your first priority is to ensure you are not given a garbled message, then allow your caller to run off. If you allow this, especially at a large road accident or fire, then quite honestly you shouldn't be offering your services as an EMO.

Irrespective of what is happening elsewhere at the scene, instruct your caller IMMEDIATELY not to leave the radio, and using the EMERGENCY MONITORING GUIDE published in the April issue of CB Radio carefully extract all the necessary information that will be required by the Emergency Services. IF IN ANY DOUBT WHATSOEVER AS TO WHOM YOU SHOULD CALL - PHONE THE POLICE. They will co-ordinate all services required to ease and finally solve the situation. A well-equipped EMERGENCY MONITOR STATION should contain at least two transceivers, one permanently on the designated Emergency Channel, and the 'working' transceiver, used for all other traffic, especially when non-urgent traffic is moved off the Emergency Channel.

If at all possible always work with at least two EMO's, one permanently on the No 1 Transceiver Channel 9, the other giving the all important 'back-up'.

CB RADIO						DATE																		
EMERGENCY MONITOR REPORT						TIME																		
OPERATOR:			No:	SERIAL Nr																				
PART ONE	CALLERS DETAILS:			VEHICLES DETAILS:																				
	Name: _____			Registered No: _____																				
	Address: _____			Make/Model _____																				
	_____			Colour _____																				
AA/RAC/Club _____			Trailer/Caravan: _____																					
Membership No: _____			TYPE OF EMERGENCY																					
LOCATION: _____			1) R.T.A.																					
NATURE OF EMERGENCY: _____			2) Home Accident																					
_____			3) Other Accident																					
_____			4) Sudden Illness																					
_____			5) Fire-Building																					
_____			6) Fire-Bldg PR																					
_____			7) Fire-other																					
_____			8) Aircraft Acc.																					
_____			9) Railway Acc.																					
_____			10) Marine Acc.																					
_____			11) Vehicle B/D.																					
_____			12) Crime																					
PART TWO	EMERGENCY ACTION					USE 24 HOUR CLOCK FOR ALL RECORDING																		
		1st Call Time	Called By	2nd Call Time	Called By		ETA																	
	FIRE BRIGADE:																							
	POLICE:																							
	AMBULANCE:																							
COASTGUARD:																								
GAS/ELECTRICITY																								
PART THREE	ASSISTANCE ACTION					A) Acc Damage B) Non Start C) No Petrol D) Tyre Problem E) Windscreen F) Minor Defect G) Trailer Probl. H) Other																		
		1st Call Time	Called By	2nd Call Time	Called By		ETA																	
	Automobile Assn:																							
	R.A.C.:																							
	Garage (Specify):																							
Other (Specify):																								
CALLER STANDING BY ON CHANNEL No		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CALLS TO AND FROM CALLER BY R/T					INCIDENT CLEAR																			
INCIDENT CLOSED BY OPERATOR					AT																			

The instant a 10/33 is called in the No 2 EMO can immediately commence dialing the required contact, and in the case of RTA's broadcast the vital 'early warning' on the designated Traffic Information Channel to vehicles approaching the scene of the Accident, thus preventing further problems. The whole idea of an Emergency Monitor is to get help to the scene as quickly as possible, and a well run Station should train intensely to cut REACTION time to the barest minimum. Even an EMO working on their own, can with practice, efficiently use a transceiver and telephone simultaneously, and I am sure some of you already do.

Let us look at a typical 10-33 situation, the RTA (Road Traffic Accident). Pending legislation we will assume that 09 is the designated Emergency Channel, with Channel 10 as the reserve Emergency Channel.

## A typical 10-33 R.T.A.

Mobile: "Break, Break 09 for a 10-33 – is there an Emergency Monitor Station on Channel?"

EMS: "Mobile calling a 10-33, you have Emergency Monitoring Station Unit 374 Kingston, timing your call at 21.50 hours, please go ahead with your call sign and details of your 10-33, please do not leave your vehicle, over".

Mobile: "This is Warlord, we have a Road Traffic Accident on the A3 Kingston By Pass, Southbound, about half a mile past the Tolworth Underpass – six vehicle pile-up, involving five private cars and a Road Tanker – over".

EMS: "Roger, Warlord, can you please estimate the number of casualties, and confirm if the carriageway is blocked, over".

Mobile: "EMS Kingston from Warlord, there appears to be about six persons injured, one possibly trapped, and the carriageway is completely blocked, over".

EMS: "Roger, Warlord – Ambulance, Fire Service and Police now being informed. Is there any spillage from Road Tanker – or petrol spillage from vehicles involved – over".

Mobile: "EMS Kingston, from Warlord, affirmative, Road Tanker appears intact, but petrol leaking from one private car – over".

EMS: "Received Warlord, please ensure there is no-one smoking in the vicinity or wearing steel studded footwear – over".

Mobile: "Roger – received".

EMS: "EMS Kingston to Warlord – we now have confirmation three Ambulances, Fire Brigade and Police are on way. Important instructions will now follow:- Will you please ensure all walking wounded are asked to leave the vehicles, and remain on hard shoulder at least 100 ft away from Accident. Also ensure scene is well marked, your own vehicle should also be at least 100 ft away from scene, use your hazard flashers, and illuminate scene with your headlights if

possible, and instruct other vehicles present to do likewise. If possible send persons wearing light cloths or fluorescent jackets with flashlamps to warn on-coming traffic. Message timed at 21.55 hours, your confirmation please Warlord – over".

Mobile: "Warlord to EMS Kingston, affirmative will comply, over".

EMS: "EMS Kingston to Warlord and all vehicles involved in 21.50 hours 10-33 Kingston By Pass, please now clear Emergency Channel, change to Channel 10 – EMS KINGSTON changing now (EMS does not in fact change channels, but leaves Transceiver 1 on Channel 09, and uses Transceiver No. 2 on Channel 10, thus ensuring continuity of Monitoring of Channel 09)

EMS: "Opening Channel 10, now monitoring RTA – A3 – 21.50 Hours this Channel, EMS Kingston standing by".

The 'Clear-up' messages can go on for quite some time, as all future emergency transmissions for this RTA will be dealt with by the statutory services on their own domestic radio system, the EMS's remaining function is now just to assist further if required (on its No 2 transceiver). It is possible that accident victims or persons delayed at the scene might ask for personal messages to be passed, but this will be governed by the policy of the EMS concerned. I personally feel it is best to do all possible to relieve the situation at the scene of any occurrence, but this is a matter of personal choice. IT IS ESSENTIAL THAT TRANSCEIVER No 1 CONTINUES TO MONITOR THE EMERGENCY CHANNEL AT ALL TIMES as accidents and other occurrences continue to happen elsewhere, and do not stop just because you have a 'big one'.

From the above transcript, you can see how the experienced EMS will have the vital edge on an inexperienced station, asking the right questions at the right time. A certain amount of animosity usually exists between the professional Emergency Services and the 'volunteer', which is already quite evident in the existing relationships between Regular and retained Fire Service personnel, the Regular Police and the Special Constabulary, and the Ambulance Service and St John Ambulance and Red Cross, and this has usually been generated by a professional having direct experience of an inexperienced volunteer trying to deal with a situation which was created by inadequate training on the part of the volunteer.

You can see therefore that there can be no short-cuts when training is involved. You will in some cases be dealing with situations when lives are at risk, and only thorough and efficient training can install in the EMS student the confidence required to be immediately able to control an Emergency situation until such time as the professional Emergency Services arrive. A large RTA will probably be the biggest situation which an EMS will be called upon to deal, and as you landline the Statutory Emergency Services, ensure that you already have ALL the answers and give your information in a

Calm, Correct, Courteous and Concise manner, only when this routine becomes second nature and you are able to converse with a professional controller will your EMS get the respect and credibility it deserves. There are many lessons to be learnt, and in reality a good member of the Emergency Services is always ready to learn, never think you know it all, you don't and you never will. Train hard, it takes years to become a good controller, it only comes with experience and study. How to gain experience? The obvious answer is firstly to join the only recognised Monitoring organisation currently available in this country – REACT, run by Ivan Francis of 28, The Coots, Stockwood, Bristol, Avon BS14 8LH. They can supply copies of the official REACT MONITORING GUIDE, and whilst it is obviously published for the American market, it is a good indicative and instructional document. By joining REACT you will be encouraged to form Monitoring Teams, and jointly with your colleagues you can approach the statutory Emergency Services for visits to their Control Centres, and possibly lectures on Control procedure by their training officers, if you explain your planned function as an EMS you will probably get all the assistance you require, but there is no substitute for personal training – the 24 Hours clock system and the Phonetic Alphabet MUST be second nature.

Every Accident call you deal with will be different, there is no such thing as a text-book accident. After every 10-33 is cleared, hold a 'debrief', if only with yourself – ask yourself could I have done better, dealt with the situation more efficiently, what did I do wrong? What should I have done? Be very critical of yourself, then you will learn.

Let us just consider the above transcript of the above RTA, and the significant but important points that shows the EMS had an experienced operator, check the points:

- 1) Immediate response – call identified – time check.
- 2) Life before property – EMS FIRST question: number of casualties. (This obviously lets the Ambulance Service know IMMEDIATELY how many Ambulances to send).
- 3) Is the carriageway blocked? Most important, if road is blocked then obviously a traffic tail back will occur, thus preventing Emergency Vehicles responding to the call reaching the scene on that carriageway. The approach would therefore probably be made from the opposite direction, against the normal flow of traffic ie: approaching on the now empty Southbound Carriageway. THIS ONLY APPLIES TO STATUTORY EMERGENCY VEHICLES, whose drivers are highly trained for such actions.
- 4) Confirmation to the caller that the Emergency Services HAVE been called a great relief to a distressed person.
- 5) Investigation of Petrol or Chemical spillage, and subsequent fire risk.
- 6) NO SMOKING instructed (not always as obvious as one thinks) also steel-studded footwear can create sparks, – Sparks + Petrol = lethal Fire risk, especially where persons trapped in crashed vehicles.

# Friendly Advice for Emergency Monitors

- 7) Remove all Persons and vehicles possible from scene, just in case, a defective vehicle electrical system has been known to ignite a car some time after the actual impact. Keep at least 100 feet away, more if possible if larger fuel loss.
- 8) Mark the scene as much as possible, thus preventing further tragedy, and ensure any persons moving about the scene are well marked, light coloured clothing or fluorescent jackets. To move about in dark clothes on a carriageway at night is lethal. Message timed again.
- 9) All dire emergency work completed by EMS, therefore clear the designated Emergency Channel AS QUICKLY AS POSSIBLE, thus allowing further monitoring to continue.

The above obviously represent just a few points which can prevent further accidents or distress. We will hold over until the next article the promised Training Syllabus, but in the meantime if you are planning to establish an EMS, there are still a few tasks you can be getting on

with: TELEPHONE NUMBERS, how is your list progressing? Does your Radio-coverage area involve more than one Police Force, Fire Service or Ambulance Service, if so ensure that you have a map showing the boundary lines, so that you will know, in border areas, which of the two Police/Fire/Ambulance Services to

ask for. In my home area all three services have different demarcation boundaries, so acquaint yourself with who covers what - your statutory services will be pleased to advise you.

Also never forget a good EMS should have an excellent working relationship with the surrounding stations, and that the system also works in reverse: ie, Make yourself well known as an EMS, then if there are Urgent messages to be passed to mobiles believed in your area, then you can oblige by transmitting the call. Perhaps CB Radio Magazine will, upon legalisation, publish a list of EMS's, monitoring hours, and telephone numbers. Have you registered for that First Aid Course yet? Good Monitoring.

THE MEDICMAN.



**REACT-U.K.**  
COUNTY INFORMATION OFFICER  
MIKE NEWBOLD--SURREY

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### Specifications

Models ..... ASC 550 to 556.  
Whip ..... 3', 4' & 5' fibre glass, 3/4 wave.  
VSWR ..... 1.5:1, all 40 channels.  
Connector ..... PL-259.  
Mount ..... Fits any 3/8" - 24 thread.



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- 17-7 PH stainless steel (finest grade available) taper ground for resiliency and low wind resistance. Bends full circle without taking a set.
- Static ball tip for less noise.
- Stainless steel shock spring minimizes damage from obstructions.
- Ample 17' coax cable with attached connector.
- Mounts securely and easily on any flat metal surface. Waterproof design. Requires 3/8" hole.

### Specifications

Model ..... MR125  
Whip ..... 17-7 PH stainless steel, taper ground.  
VSWR ..... 1.5:1 or better, channels 1-40.  
Cable ..... 17' RG58U coaxial.  
Connector ..... PL-259.  
Mount ..... 3/8" hole mount.  
Total Height ... 47".



M-125



## CB5000

CB/AM/FM DISGUISE ANTENNA. 5 section locking telescopic, Diplexer pretuned. Fine tuning only required. Power rating 50w. (The replacement for the M610).

Plus all the other popular models, MS264, M125, MR440, 'STARBUSTER' M400, MIGHT MAGNUM M227 etc.

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Wintjony Limited, 103 High Street, Shepperton, Middx. 093-2248145

# The Frequency Jungle



A Dutch (PTT)  
22 Channel 2 Watt FM Rig

The illegal shopping choice is a literal jungle.

One of the problems on the UK CB scene is a lack of reliable information on sets. This is caused mainly by the illegality of 27 MHz in the UK and hence no manufacturers or consumer information being made available other than the handbooks (in theory) provided with each set.

Another repercussion of the illegality problem is that there is no fixed standard for CB frequencies and power outputs, hence sets of all frequency bands, modes and power outputs are in use. This has led to a large amount of confusion, and I seem to spend a huge proportion of my time explaining the various modes, frequencies, channels etc. on various rigs.

The most common set in use in the UK at present is the forty channel AM set with an RF power output of four watts maximum. (More about power later). The reason for this being a CB'er standard is that this is the type of set most commonly in use in the USA and several other countries where there is legislation governing the use of CB. These forty channels range from 26.965 MHz to 27.405 MHz, and in the USA this is known as "Class D" citizens band. It is in actual fact, illogical that so many sets should reach our shores from North America because of the sheer distance (other sources - e.g. Europe - being much closer) but on closer inspection, it is actually the current state of the US CB market that is causing the phenomenon.

## Stockpiles of Redundant Rigs

By the beginning of 1979 the CB market in the US had virtually ground to a halt, because everybody who wanted a CB had already got one - also the fact that new cars were appearing with CB as a standard fitting. (One notable example is the US company - who shall be nameless - whose 1978 turnover of \$108M dropped to \$16M in 1979!)

This meant that huge stockpiles of rigs were left in the manufacturers warehouses, and had to be sold off either in lots to Europe, or ridiculously cheap to the public. A 40 channel set can be bought anywhere in the US now for \$39.95 (about £19.00). Only the strongest

companies survived, with the weaker ones going broke, and their stocks sold off.

Hence the glut of US rigs, and the setting of the UK trend of 40 channel AM 27MHz as a standard.

## Clouding the issue

Some American rigs bought as 'new' are fairly old - some 22 channels are 1976 manufactured, but still turn up now, packaged and unused. Some US manufacturers stamp the manufacture date on the FCC approval plate on the rear of the rig - worth checking.

Unfortunately, just to cloud the issue, sets from Germany are finding their way onto the UK market - and these are 11 channel AM 27 MHz with a maximum power output of ½ watt - Beware!

Also, other European countries have different - or no - legislation, and hence the Belgian modified US sets with an extra 40 channels, making 40+40 AM, or specially manufactured 120 channel sets, possibly with an FM mode as well as an AM mode, and the combined CB and 10 metre ham sets!

To clarify, let us say that all sets have at least 23 AM channels (except Germany), and these with forty or more have at least the standard forty channels listed in Fig. 1.

It is worth noting at this point that, for historical reasons, channels 24 and 25 are physically between channels 22 and 23 - this is standard, and does not vary.

The eleven channel on German standard sets compared to channels 5 through 15 on the US channels.

These European sets with an added forty channels (making eighty) fall into two categories, known as 80ch, and 40+40DX ch. (See Fig. 2).

## And yet more channels

In addition to this, there are other sets (Super star 360, Sommerkamp TS780 DX etc) with yet another added 40 channels (making 120), with the high band usually in the 10 metre (28MHz) amateur band - although many different models are made with no apparent rhyme or reason, some

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	27.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

Fig. 1.

with the low band at 27MHz and the mid and the high band at 28MHz, and some with 26MHz in the low position, 27MHz in the mid position and 28MHz in the high position.

Now - modes. So far we have only talked about AM. The modes available in one form or another are:

- AM Amplitude modulation
- SSB (USB+LSB) Single Side Band (Upper + Lower)
- FM Frequency modulation
- CW Carrier Wave

As this is not a technical discussion, I will not go into what each one does, however, the most popular misconception is that an SSB set has 120 channels - IT DOES NOT! It has 40 channels which can be used on either AM, USB or LSB modes. Channel 14 is still 27.125MHz whether it is AM, USB or LSB mode.

FM is very nice, as it is much more interference free, but as very few people have it, it is almost useless.

CW is no use for the ordinary CB'er as it is for Morse code transmissions.

Any way, to sum up:

1. All American 40 channel sets use the same AM mode, possibly USB and LSB, and the same 40 frequencies. If

in doubt, a US set must have, by US law, an FCC approval plate, stating "Class D Citizens Band".

- The majority of European sets have at least the forty American channels in the AM mode.
- German sets only have 11 channels.
- FM and CW modes are not a lot of practical use.
- On an 80 ch set, the top forty channels are not necessarily the same on all sets.

The exception to all this is, of course, walkie talkies. Most of these are three or six channel, using plug-in crystals, which you can change easily to correspond to any channel you require.

## Power

The 'power' of a rig is the most mis-quoted in CB today.

There are three ways of quoting the transceivers power, all different:

- Power input (AM)
  - RF power output (AM)
  - PEP (Peak envelope power) (SSB)
- US rigs may not be by their FCC legislation:

- more than 5 watt DC input
- more than 4 watts RF output
- more than 12w PEP in SSB mode

- Similarly, German rigs may not be more than 500mW input
- more than 400mW RF output

European rigs can be anything, varying from the German 500mW to the more recent invasion of Dutch 2W FM PTT

C H A N N E L	75 - MODEL 2 LOW	780 - NORMAL CB MID	DX MODEL 2 * HIGH	HAM INTERNATIONAL MEDIUM PLUS 40 OR CHANNEL NO	540 DX HIGH	780 DX MODEL 1 HIGH	HAM INTERNATIONAL HIGH	SOMMERKAMP 75155 + 5 KCS	C H A N N E L
1	26.325	26.965	27.415	+ 27.415	27.665	27.605	27.865	27.450	1
2	26.335	26.975	27.425	+ 27.425	27.675	27.615	27.875	27.460	2
3	26.345	26.985	27.435	+ 27.435	27.685	27.625	27.885	27.470	3
4	26.365	27.005	27.455	+ 27.455	27.705	27.645	27.905	27.490	4
5	26.375	27.015	27.465	+ 27.465	27.715	27.655	27.915	27.500	5
6	26.385	27.025	27.475	+ 27.475	27.725	27.665	27.925	27.510	6
7	26.395	27.035	27.485	+ 27.485	27.735	27.675	27.935	27.520	7
8	26.415	27.055	27.505	+ 27.505	27.755	27.695	27.955	27.540	8
9	26.425	27.065	27.515	+ 27.515	27.765	27.705	27.965	27.550	9
10	26.435	27.075	27.525	+ 27.525	27.775	27.715	27.975	27.560	10
11	26.445	27.085	27.535	+ 27.535	27.785	27.725	27.985	27.570	11
12	26.465	27.105	27.555	+ 27.555	27.805	27.745	28.005	27.590	12
13	26.475	27.115	27.565	+ 27.565	27.815	27.755	28.015	27.600	13
14	26.485	27.125	27.575	+ 27.575	27.825	27.765	28.025	27.610	14
15	26.495	27.135	27.585	+ 27.585	27.835	27.775	28.035	27.620	15
16	26.515	27.155	27.605	+ 27.605	27.855	27.795	28.055	27.640	16
17	26.525	27.165	27.615	+ 27.615	27.865	27.805	28.065	27.650	17
18	26.535	27.175	27.625	+ 27.625	27.875	27.815	28.075	27.660	18
19	26.545	27.185	27.635	+ 27.635	27.885	27.825	28.085	27.670	19
20	26.565	27.205	27.655	+ 27.655	27.905	27.845	28.105	27.690	20
21	26.575	27.215	27.665	+ 27.665	27.915	27.855	28.115	27.700	21
22	26.585	27.225	27.675	+ 27.675	27.925	27.865	28.125	27.710	22
23	26.615	27.255	27.705	+ 27.705	27.955	27.895	28.155	27.740	23
24	26.595	27.235	27.685	+ 27.685	27.935	27.875	28.135	27.720	24
25	26.605	27.245	27.695	+ 27.695	27.945	27.885	28.145	27.730	25
26	26.625	27.265	27.715	+ 27.715	27.965	27.905	28.165	27.750	26
27	26.635	27.275	27.725	+ 27.725	27.975	27.915	28.175	27.760	27
28	26.645	27.285	27.735	+ 27.735	27.985	27.925	28.185	27.770	28
29	26.655	27.295	27.745	+ 27.745	27.995	27.935	28.195	27.780	29
30	26.665	27.305	27.755	+ 27.755	28.005	27.945	28.205	27.790	30
31	26.675	27.315	27.765	+ 27.765	28.015	27.955	28.215	27.800	31
32	26.685	27.325	27.775	+ 27.775	28.025	27.965	28.225	27.810	32
33	26.695	27.335	27.785	+ 27.785	28.035	27.975	28.235	27.820	33
34	26.705	27.345	27.795	+ 27.795	28.045	27.985	28.245	27.830	34
35	26.715	27.355	27.805	+ 27.805	28.055	27.995	28.255	27.840	35
36	26.725	27.365	27.815	+ 27.815	28.065	28.005	28.265	27.850	36
37	26.735	27.375	27.825	+ 27.825	28.075	28.015	28.275	27.860	37
38	26.745	27.385	27.835	+ 27.835	28.085	28.025	28.285	27.870	38
39	26.755	27.395	27.845	+ 27.845	28.095	28.035	28.295	27.880	39
40	26.765	27.405	27.855	+ 27.855	28.105	28.045	28.305	27.890	40

Fig.2: A chart showing frequency differences.



An American rig with 27MHz 40ch + USB and LSB.

approved equipment and various other adoptions.

The most realistic figure to look at is the RF output figure. In most US rig handbooks, the power is stated as:

RF output power: 4W maximum.

This means it will not exceed the FCC legal maximum. In practice, these rigs can be anything from 3W to 3.8W if accurately measured.

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# Vultures on the Side



A high price to pay for a clash with the authorities.

Apart from an active interest in Citizens Band Radio, Red Fox is a responsible family man, a respected business man and a law abiding citizen - who was recently left reeling from his last confrontation with our British Judicial System.

His young son showed a naturally inquisitive interest in CB and so he allowed the lad to set up a base station in the study; now 'Doctor Who' could monitor his father's home-coming and listen to the many other local breakers. As neither were the type of breakers to get involved in club activities, 'Doctor Who' and 'Red Fox' remained somewhat green and not well-versed in the legal aspects of CB.

SS

## They just walked in!

For Red Fox his encounter began one Friday evening in January 1980. Hearing his wife shout in alarm, he dashed down to find two strange men in his house. Evidently the front door had been ajar and not locked, and they had just walked in. Living in an isolated area, he was very wary of intruders and instructed them to get out. No sooner had the words left his lips when two more men appeared. Red Fox, his family thoroughly frightened, attempted to bundle the men out of the open door. This is where some confusion creeps in, for Red Fox is convinced that the men showed no identification or warrant although the men maintain they showed their Home Office identification. Here the situation deteriorated further, with the sudden arrival of the police, who could have been called before the officials entered his home. Either way, Red Fox's house was searched for over an hour, and he was locked out of his study where the disconnected rig was discovered.

The rig, antenna and battery were soon located and confiscated, along with copies of CB Radio Magazine, personal letters and some unrelated belongings. Red Fox was then arrested for assault and was taken to the local police station where he was finger-printed and locked into a cell.

Four hours later he was charged with causing actual bodily harm to a Home Office Official (a serious charge), along



Red Fox and his mascot - CB Criminals ?

with installing and operating a transceiver without a license. He was persuaded to admit to transmitting on condition that his young son was not involved in the case. He was also allegedly offered a deal, subject to him giving information about rig suppliers and other users. He turned this offer down.

## Next Step Court.

After being adjourned four times, the case eventually came to court on the 16th March 1981. The case took three days to hear. The Home Office evidence was conflicting, not only between Red Fox and the officers involved - as might be expected - but also between the officers themselves. The injured official Mr. Gooding even produced his bruise - 'ten months' after the event! Red Fox had pleaded guilty to two charges brought under the Wireless Telegraphy Act, not

guilty to a further WT Act charge, and not guilty to the charge of causing actual bodily harm.

He was found guilty on the first two charges, not guilty on the third, and guilty to the charge of causing actual bodily harm. The judge told Red Fox that if he had not been of such good character he might well have been sentenced to jail, and fined him a total of £925, consisting of £150 for each WT offence, £200 for actual bodily harm and £25 compensation for Mr. Gooding, plus £400 court costs.

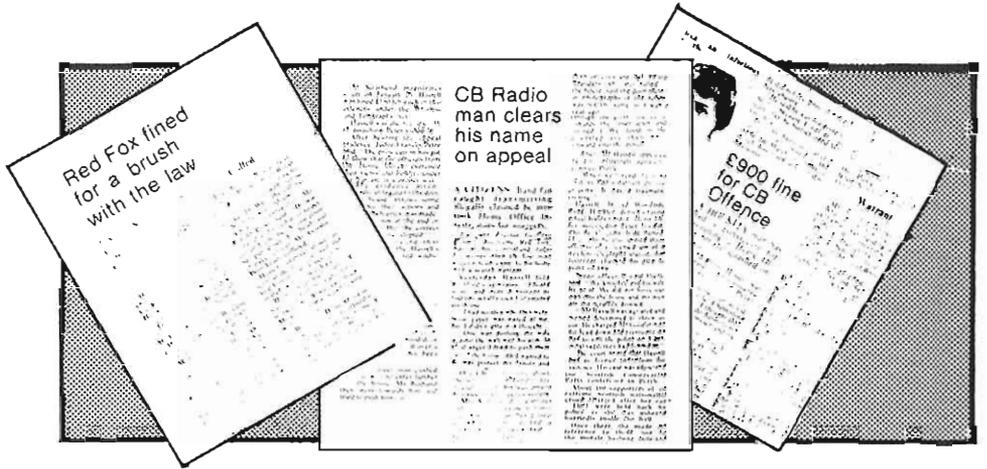
Red Fox decided to appeal. Having admitted transmitting, he could not really appeal against that verdict; but the severity of the fine, and, in particular, his desire to clear his name of the A.B.H. charge, caused him to consider means to raise the funds, (estimated at £1200). The word was out, and the local clubs in the area, organised by Piccolo of Canvey Island breakers, soon raised £1,175. The appeal was on.

## Reasonable Force?

The appeal was heard on 27th March 1981, and was based on the argument that the use of reasonable force was not covered in Home Office Warrants for offences against the Wireless Telegraphy Act. Therefore if the officers weren't permitted to use force to enter they were trespassers on Red Fox's property and he had the right to resist them and to ask them to leave his home. The judge, however, would not accept the submission of trespass, although he was very critical of the evidence of the two Home Officials, Mr. Gooding and Mr. Playle. The builder of Red Fox's house was called to give evidence; he testified that the front door had been installed to open outwards and it was impossible for it to open inwards as the officials had maintained. The Home Office was forced to withdraw the assault charge along with Mr. Gooding's £25 compensation and the £200 fine.

The Wireless Telegraphy fines were upheld, but the original court costs were reduced from £400 to £50. There were no further costs as the appeal had been won. New total £350 - instead of £925.

Apart from the satisfaction of having his name cleared and the financial relief, Red Fox - who as you may have guessed did not wish to be named - feels that some valuable points have resulted from his case. The judge stated that H.O. officials must abide by the requirements of the law and their warrants and must clearly identify themselves by showing



official I.D. along with such warrants. They must also state their purpose and intent. The judge would not be drawn into detailing the right of using reasonable force but ruled that officials must have refusal of admittance before using force and must have police assistance to arrest for obstruction of such warrants. This ruling might well apply to pending cases and influence subsequent decisions. The concern the Home Office felt about this case and the possible outcome was illustrated by the high ranking Home Office Officials present at the appeal. Red Fox feels that, in his case, justice was eventually done. He was lucky in being able to appeal aided by the financial

help from clubs and organisations. However, he still believes that this is the way to fight in court, 'on their own ground' rather than the unpleasant personal threats and violence that some officials are experiencing.

It took four Home Office Officials and four police officers to arrest and charge Red Fox with four offences, one of which he was found not guilty of, and one of which was squashed on appeal - a total of eight public servants and four days of court time (bill footed courtesy of the tax payer).

*PS from Red Fox: Red Fox has requested us to thank the people who provided the money for him to go ahead with his case. A very big thank you to everyone involved.*

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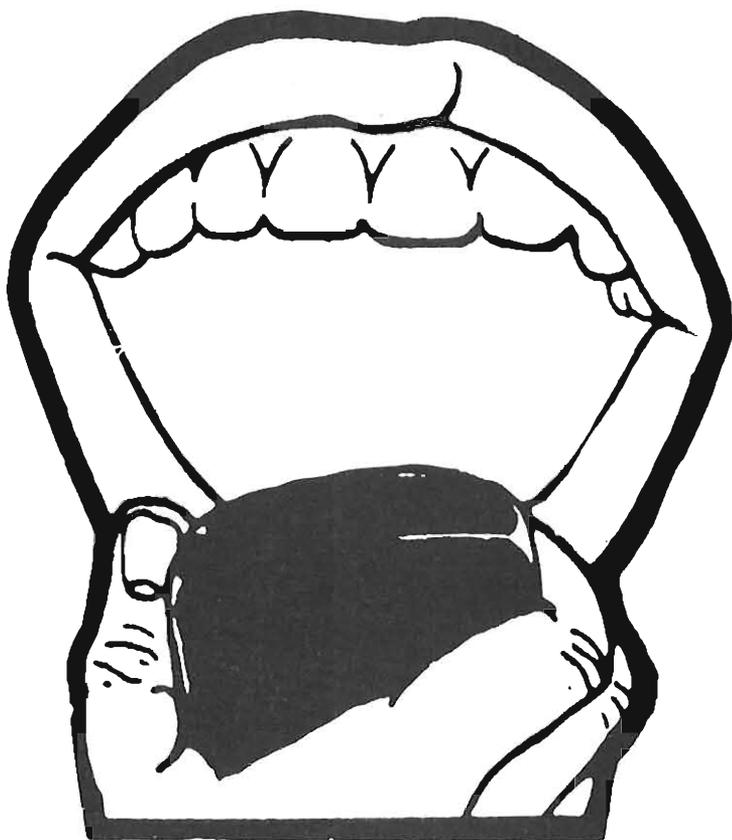
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AV-261M

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# Readers Write

After the interest that was aroused from the back covers, Issue 10 and 11 of CB Radio (see our article on page 2 last issue), we decided to publish some letters that were received by Wintjoy and ourselves.

Dear Carol,

I have finally put pen to paper for the following reason. I personally, and the C.B.A. as a club, were most disgusted, yes, disgusted, with the Wintjoy 'Firestik' advert in your April issue. At a time when we are still looking for acceptance in society, your magazine allows an advert of this kind into your otherwise excellent magazine.

If I may remind your editor you were very much against Link House when they put nude's into their magazine and saying that your magazine was for the family, well I hardly see that advert showing antennas as phallic symbols is for the family or for CB. So please let's not have anymore.

Yours  
DAVID NUNN

Dear Sir,

I wish to order approximately thirty (30) poster size of the back page of this month's CB Magazine.

If this is not possible we can arrange copies ourselves via the master.

Once again Magnificent.

Dear Sirs,

In your April issue the Firestik advertisement left little to the imagination. What with the large amount of your CB enthusiasts now taking an interest in magazines like yours, I would have thought a serious minded magazine would be a little more careful what they printed.

I might add I am far from being a prude, quite the opposite but everything in it's right place. I do enjoy reading your magazine though, so let's keep it clean.

10-10.

FOZZIE BEAR (Balley Town)

Dear Sirs,

Please help! I have a problem! I've fallen in love with YL advertising your products in issue 9 & 10 of CB Radio. This is causing problems at home with my XYL who is insanely jealous! Although divorce is a strong possibility, I feel a need to find out more about this gorgeous creature.

I'm blowing my windows out with desire!! Your help would be greatly appreciated. (An autographed picture would be ideal!) Please congratulate whoever was responsible for the issue 10 advert, a Big 10-4 Good Bud!! I must go now, my XYL has just grabbed by 'firestik!'

Looking forward to hearing from you soon, 10-10 bye bye.

W.R. GOWER

Dear Sirs,

I thought National 10-4 Day was really

great, but for the fact that I bought from your stand 3 T-Shirts (CB Radio) and then had them nicked from the motor.

Anyway, all the lucky numbers to you.

S.B. ZACKS

Dear Sir,

Listen here Breakers, because 'Breaker' and now 'Citizens Band' are jumping on the bandwagon, I would like to have a moan. I know they won't print this, will you?

When all is said and done, CB Radio was the finest mag to push CC, QSL and 11 metre SSB operation. In fact, as we both know, CBRM had the first QSL cards to ever appear in an english magazine or a request for a 1.4.1. QSL swap. Incidentally, I'm grateful for the advert - made some good contacts through that. As it happens, according to Citizens Band they're just introducing an important regular feature dealing with sideband and DX CB. One of the countries leading experts will keep us in touch, blah, blah, blah, what happened to the best demo coverage?

They're always blowing off about how good they are: 'one of CB's top personalities Mack the Hack, one of the country's leading DX experts', etc, etc. Sounds more like a load of boring, self-opinionated old puffers to me!

'Bandstand' seems about kaput; Citizen's Band mentioned it in passing - a disgrace. Mike Evans worked his finger to the bone for CB in this country while most of today's breakers were cruising about oblivious to it all. I think - nay, DEMAND - that Mike and Wendy and 'Bandstand' are honoured and elevated into the position that they deserve and that it is rammed down the throats of the modern-day breaker. I'm desperately thinking of some way in which I can honour them. Might dig up old Greenfingers and write something. I'm going to write a strong letter to Mack the Hack and tell him to come down off his pompous throne; after all, he and I are old correspondents to 'Bandstand'. Might even write that article to Citizen's Band. That'll stir him up!

Boy, I'm in an acid mood this afternoon. I'll have to calm down because I'm going to pick the kids up from Sunday school. Must appear pure and innocent when I go there!

Ta-ra,

Chris

*I sympathise with Mike and Wendy: Did you see our Come Back the Breaker Spot last month? But you know just because we were first it doesn't give us a monopoly - they are all quite entitled to print what they like. In the end it's the public's choice. Obviously you have made yours and I thank you.*

ED

Dear Sir,

Myself and a couple of friends travelled to the CB Show yesterday and were unfortunately very disappointed with the whole day.

The two page advertisement in your magazine was very misleading in a number of ways.

The display of actual rigs was very poor with nothing new or enterprising. In fact the biggest rig display was not even for CB on 27MHz but for amateur enthusiast on the 2 metre bands.

NO free sticker was available or even offered.

NO free drink was available, in fact a large sign over the bar stated that free drinks were impracticable.

NO one asked where we were from in order to qualify for the prize of a rig based on distance travelled. Admittedly many others came further than us, most probably, but no chance seemed to be given.

The free entry draw competition involved throwing your filled in ticket counterfoil in a small tin on the floor upon learning many of these counterfoils were being knocked everyone which probably makes rather a mockery of that.

After anticipating an enlightening day we were extremely dissatisfied and felt the journey to be rather a wasted one.

In fact we stopped in at a well known CB shop on our way home and saw a much greater variety of most CB goodies.

Let's hope if another national show is attempted the organisation and displays are improved.

R.C. WINDOW

Dear Sirs,

I have been instructed by our members to write a formal complaint to you, as the organisers of the 10-4 Day Exhibition, at Heathrow Hotel.

There were various complaints from our party, the main ones being: firstly the lack of space, the venue was far too small. Secondly people who took the trouble to come in their own cars (for one reason or another), were charged £2.00 for parking! Thirdly, and in particular, the fact that people were promised a free drink with admission, (alcoholic of course) which they did not get. As that was one of the inclusions of the £1.00 admission charge, people feel that they were cheated.

I might add that these complaints were heard, amongst others, from people as they wandered around the exhibition, so our members are not alone in their feelings.

We felt it best to put these comments in writing to you, so as not to endanger the success of any further ventures of this kind that you may arrange. After all, people very often feel 'once bitten - twice shy' about these things, don't you think?

This letter is on behalf of the thirty three or so members of our club who attended, and anyone else who felt the same way, but had not bothered to tell you.

Please forgive our candour, but then these things are best in the open.

SECRETARY N.C.B.C. (M.K.) U.B.A.

continued over . . .

# CHELSEA CB CENTRE

**73-77 BRITANNIA ROAD FULHAM LONDON SW6**

OPEN 7.45 TILL 4.30  
MONDAY TO FRIDAY  
MAIL ORDER AVAILABLE

DISCOUNTS GIVEN  
TO CLUB MEMBERS  
WITH CLUB CARDS



WE DO NOT SELL  
NOR CAN WE SUPPLY  
RIGS 'UNTIL LEGAL'

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ASK FOR STEVE OR TONY  
TRADE ENQUIRIES WELCOME

## SPECIALISTS IN ALL CB ACCESSORIES

A WIDE SELECTION OF:-  
AERIALS, MOBILE & BASE, POWER SUPPLIES,  
PRE-AMPS, BURNERS & SO ON.

AVANTI SKINNY STICKS NOW IN STOCK

★ SPECIAL OFFER £9.50 ★

ALL AVANTI NOW ON CLEARANCE PRICES

★ SPECIAL OFFER ★

HARADA MANUAL RETRACTABLES WITH  
SPLITTER BOX £16

★ COMING SOON ★

DIRECT FROM THE U.S. of A "THE FABULOUS VSB1  
UNIT" a voice compressor and signal expander, 'has to be  
heard to be believed' (easily installed in any rig).

## CHELSEA CB CENTRE UK DEALERS

Ackrington-Geartecks Ltd., 30-32 Bernleigh Road, Ackrington, Lancs.  
0254 392 366

Barnstaple-Barnstaple CB Centre, 4 Barum Arcade, Beer Street,  
Barnstaple. 0271 78911

Chessington-Chessington CB Centre, Oakcrust Road, Chessington,  
Surrey. 391-0088

Cwmbrain-Cwmbrain CB Centre, 10 Newton Wynd, Fairwater,  
Cwmbrain, Gwent, Wales. 06333 5683

Gillingham-Tellywise Ltd, 17 Canterbury Street, Gillingham, Kent.  
0634 52670

Glasgow-Brian A Pearson Ltd, 66 Moncur Street, Glasgow, Scotland.  
041 552 4348

Leatherhead-Reproprint Leisure, 7a Gravel Hill, Leatherhead, Surrey  
537 7850

London-Cliff Davies Cars, Goldhawk Road, London W4. 741 2817

Stanley-Perth & Fife CB Centre, Perth Road Garage, Stanley,  
Perthshire. 073 882 291

New, just opened - Horley CB Centre. 02934 74 997

# Readers Write

Dear Sir,

Re: National 10-4 Day

Well I sincerely hope that after the shambles of the weekend you have your excuses ready and they had better be good. Did you seriously think that you could rip us off in this way without some form of retribution? You are very lucky I chose to write, I could have sent the lynch mob!

We arrived (90 members of K.B.C. after travelling 70 miles) at the so-called exhibition at 12 noon on Sunday and as ticket holders did not expect to have to queue outside the hotel and then be herded inside, like cattle to the slaughter. Whilst on the subject of tickets, I would like you to explain why we paid 65p each in advance for our tickets to find that people were only paying 50p on the door - in my estimations that means we are due a refund of £13.50.

As I previously stated the crowds outside the hotel (and might I add under the circumstances, very well behaved crowds) were bad enough but inside the building the lack of organisation was appalling - to the point of being downright dangerous!

\*No prize for the CB'er who had travelled the most miles.

\*No beauty contest.

\*No free CB sticker.

\*No free drink, alcoholic of course.

I think there was supposed to be a free raffle but it was so badly organised no one knew where to leave their ticket stubs and as for a drink, you could not even buy one because the bars had closed.

After we had jostled our way through the crowds we were often disappointed to find that the stands were for trade only, so not only was there very little to see, there was even less to buy. I thought this was supposed to be a CB show for CB users - how on earth you could claim this to be the "1981 CB Show" I will never know. So be warned, as a professionally run CB club we will not tolerate this sort of treatment. If we are promised a National CB Exhibition with free drinks, free stickers, stands and side stalls displaying CB equipment, that is exactly what we expect to find.

10.10.

PINSTRIP (K.B.C.) Chairman

*Perhaps you are a little over enthusiastic with the word NO. There was a raffle, stickers and a distance prize, but yes, we did blow out on the other items, sorry.*

ED

Dear Sir,

Reference your big 10-4 Day!

I am writing this letter in the hope that you will publish it in your next CB mag! If you dare!

The only Big 10-4 I would say was for Stoke Mandeville Hospital - and I know all the breakers will agree with me. The rest was a Big 10-1 yes 10-1 the lot! I am well known by thousands of breakers all over the country and I thought it was disgusting the way you conned the breakers. I really rate CB Mag, but not your 10-4, or so called 10-4!

The last day (12.4.81) was a real let down for many of the breakers as some didn't even get into the Big 10-4. All I can say is they didn't miss anything - they were probably better off for not getting in.

As you once said, you are the mouth of the breakers. Well you certainly owe the breakers some sort of explanation or at the very least an apology. You must have made a packet from the 10-1 days. How many did go? Or are you afraid to publish that?

The safety officer at the Heathrow Hotel should never have allowed so many breakers in such a small place.

I, and many good buddies, do not mind how much we pay but we do object to being 'taken'. Let's hope if you decide to organise one again you will learn from your 10-1 days.

It was very nice that the press and organisers were able to obtain food and drink - but it would have been even better if the breakers, some of whom travelled 400 miles and more, could have enjoyed these little pleasures too!

You will have to be good to wriggle out of this one! I am sending a copy of this letter to all the clubs I go to and I would like to invite any breaker to write to me care of the address at the top of this letter and let me know what they think of your BIG 10-1 LET DOWN!

A.M. HANDLE THE ROAD WRECKER  
20, BROMLEY, KENT

73's 88's TO ALL BREAKERS

This letter is being sent by Recorded Delivery 14.4.81.

*We'll we did print your letter! Actually I personally agree, who needs to wriggle out of it, just read our own write up.*

*P.S. They raised over £1,500 for Stoke Mandeville.*

ED

Dear Ed,

I am a professional ambulanceman and an enthusiastic breaker. In my job I have been called to road traffic accidents where the call for assistance has come as a 10-33 from a breaker. The RTA's have been on the super slab and there has been some confusion as to the location of the incident so I would like to give breakers some information which I hope they will find useful when giving locations:

- 1) Give name of motorway
- 2) Give carriageway, north, south, east or west
- 3) Give junction and which side of junction it is
- 4) If possible give the emergency telephone no. and letter even though you are not using the telephone. This way you will help locate the RTA.

Example: M1 Northbound, south of junction 5.

Also when asking for the Smokey for a damage only RTA (no injuries) please make sure that the people involved in the accident really want them!

10-10, Breaker Break.

BAND AID

## Day trip to Heathrow

Didn't we have a lovely time  
The day we went to Heathrow  
We came a long way,  
to see 10-4 Day  
But when we got there  
we were turned away.

From all over the land,  
The Citizens Band -  
Breakers came to London,  
They travelled for hours,  
In coaches and cars,  
- a handful of breakers  
came from Mars!

We were all out of luck  
The place was full up,  
- so much for organisation!  
The airport was jammed  
With citizens band  
"So we all went home".

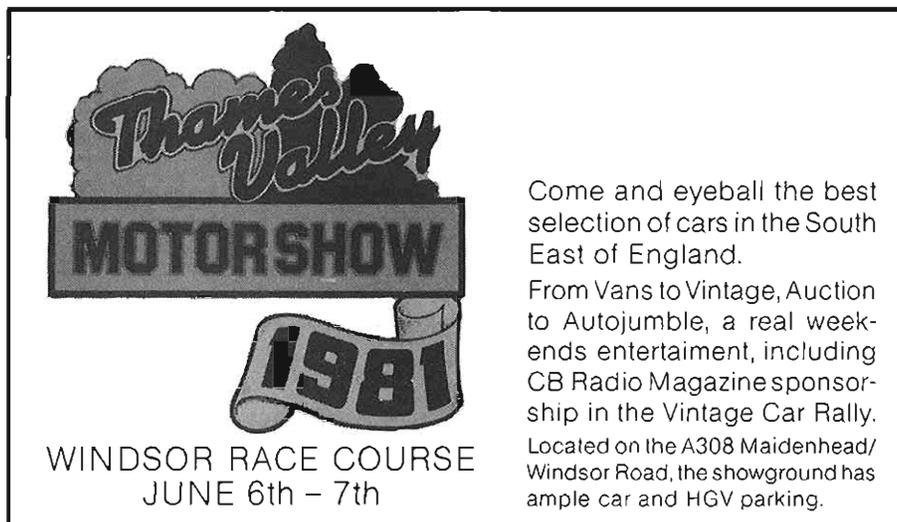
ASHFORD (Kent) BREAKERS

Dear CB Radio,

In reply to Mr. C. Doherty's letter in issue no. 11 I agree, it was not a sensible thing I said or proposed to do.

I have now joined a club, I am on the committee, and have helped to get the club off the ground. We have now closed our membership and we are doing very well. I have also had a meeting with a local newspaper representative and soon afterwards a large item was printed with all the pro's and con's of CB. This is the way, I think, it should be done, here's to sensible CB.

MASTER BLASTER



The advertisement features a stylized logo for 'Thames Valley MOTORSHOW' with '1981' in a banner below it. The text below the logo reads 'WINDSOR RACE COURSE JUNE 6th - 7th'. To the right of the logo, there is a block of text describing the event.

Come and eyeball the best selection of cars in the South East of England.

From Vans to Vintage, Auction to Autojumble, a real week-ends entertainment, including CB Radio Magazine sponsorship in the Vintage Car Rally.

Located on the A308 Maidenhead/Windsor Road, the showground has ample car and HGV parking.

# WIN THIS CONCORDE

## MULTI-BAND



### plus a K-40 Aerial & P.A. System

**Yes, you could win this fabulous 480 band Concorde CB radio, plus a K-40 aerial and P.A. system, all for 10p.**

All you have to do is decide which of the listed features on the right make a good rig, and place them in the order you consider most important. For example, if you decided that feature 'A' was the most important, then you should put 'A' in column 1 of the box below. Do this for all ten features. Each line will cost you 10p., and should you complete ten lines then you get the last one free.

Then in not more than 15 words, write why you would like to win this Concorde.

**All entries to be sent to: D G Aids Company, 11 Bradman Gardens, Arnold, Nottingham.**

*Please make all cheques and postal orders payable to: D G Aids Company. Closing date 31st July, 1981.*

- A Good Aerial
- B Good Modulation
- C Built-in Burner
- D Good Sound Reproduction
- E Small Size
- F Good P.A. System
- G Multi-Band Access
- H Built-in S.W.R. Meter
- I Power Mike
- J Ease of Operation

	1	2	3	4	5	6	7	8	9	10
1st line 10p										
2nd line 20p										
3rd line 30p										
4th line 40p										
5th line 50p										
6th line 60p										
7th line 70p										
8th line 80p										
9th line 90p										
10th line £1										
Free line										

Name (Block capitals) \_\_\_\_\_

Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I would like to win the Concorde because ...  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

*No correspondence will be entered into, and the judges decision is final.*

# News Review



A look at what is said about CB in the Press.

Considering the amount of publicity just recently concerning the use, and problems connected with, the operation of CB radio in this country, I am surprised to find that the majority of local papers up and down the country find it necessary to bombard the public with "Rubber Ducky" and somewhat "Wishy washy" feature articles on the pro's and con's of CB Radio. Over the past few months I have given such articles a small amount of coverage in "News Review" but I think that now legalisation of one form or another is inevitable, more time should be devoted to the genuinely serious coverage of CB activities and complaints of one kind or another.

Charity events and Emergency situations do however at the moment dominate the headlines, which is good news in itself, and the number of complaints is on the decline probably helped on the way by our article on Dealing with Interference Problems. Keep up the good work.

CPD

## Yorkshire Evening Post "Hams Offer a hand to CB'ers"

Outlawed CB operators were given a message of goodwill by licenced radio hams.

"We wish you luck - but keep off our bands", was the message from the chairman of the oldest existing radio society in Leeds, Tony Kelser of the White Rose Radio Society.

At the meeting at the Moontown Rugby Club he said "We have no axe to grind with the CB'ers. I would wish them luck and even offer them help, but when it comes to interfering with our bands, that's a different matter".

"So long as they stick to FM it will be fine, but once they start using AM and high power they can cause chaos, with interference on T.V. and audio equipment".

## Hayes & Harlington Gazette "Success for the biking breaker"

Malcolm Lawrence from Keith Road, Hayes, raised £235 for charity by cycling to Cardiff. Malcolm, who is a CB enthusiast was backed by the Hillingdon Citizen Band Club, and the money raised by the sponsored cycle ride was donated to the

Hillingdon Association of Voluntary Services, who will be using the money to help maintain their coach service for the disabled, elderly, and handicapped. Hillingdon CB Club are also selling badges in aid of the International Year of the Disabled.

## Grimsby Evening Telegraph "Customs Swoop on New CB Shop"

Customs officials in Grimsby have taken possession of CB sets worth more than £2,000 which they believe to have been brought into the country illegally.

The equipment was taken from the Lincolnshire & Humberside CB centre on its first day of business as a result of investigations by Post Office and Customs Officials. Mr. Green, of Oxcombe Close, Grimsby, one of the proprietors said that he had taken delivery of the sets which he believed to have come from Korea, and that he had made no attempts to hide them. "It would appear that some or all have been imported illegally, in which case we will lose them", he said.

A spokesman for the Customs office confirmed that the sets had been "detained" because they appeared to be unlicensed, and that "no charges had been made". A Home Office spokesman pointed out that all CB radio sets coming into the country had to have a licence, and such licenses are rare which means that sets in this country are normally suspect.

The investigation continues.

## Wokingham Times "CB Radio Enthusiasts in Fire Drama"

When a car parked in Owlsmoor Road, Wokingham, burst into flames during the night the police and fire brigade were on the scene in seconds due to the fast action taken by "Pluto", one of the local breakers who were parked only yards away from the car when it caught alight. "Pluto" alias Chris from the Crowthorne area immediately put out a 10-33 which was received by another local breaker "Wrangler" who then dialled 999.

The police arrived within two minutes closely followed by the fire brigade who took about 15 minutes to extinguish the blaze, "It could have been a nasty fire", said Chris. "If the ground had been drier it could have spread to the nearby houses". A spokesman for the Thames Valley Police said "It is very creditable that they called the emergency services, but instead of using CB equipment they could have driven to a phone box. Whilst we like to say thankyou for calling us so quickly, it is something that we hope everyone would do".

## Shropshire Star "Fair Days Work for Gareth"

I'm sure that most CB clubs up and down the country have heard of the appeal to send two year old Gareth Payne, from Kidderminster to America for a vital liver transplant operation necessary to save his life. The appeal was started last November, and since then several clubs have offered their assistance to raise money.

This particular clipping covers the action taken by the "Telford Citizens Band Club" on Saturday 9th March. Club members were out and about in Telford, with collection boxes and were greatly assisted by local traders, and to put the icing on the cake, Gareth himself made a personal appearance to increase the cash flow. Later in the day, a visit to a fun fair at Madeley, was arranged for Gareth who was allowed as many free rides as he wanted.

Judging by the number of articles I have received about the appeal I would not be surprised if the target figure of £40,000 necessary for the operation has nearly been reached. Never the less, keep up the good work.





### Fair day's work for Gareth, 2

The appeal for money to pay for a liver transplant for two-year-old Kieran Payne, which started last November, was picked up by the Telford Citizens' Band, Radio Club on Saturday. Members of the club were out and about in Telford with collecting boxes and have been supported by the traders and public in the new town. To add the personal touch to the appeal, Gareth arrived with his parents to help with the collection and finished off the day with a visit to the fair. Gareth, who was given the freedom of the town during his visit and he went into action himself with a handball and collecting tin. Below Gareth is pictured with Dave Wright (left), treasurer and Dave Mellin, chairman of the radio club entertainment committee.



## Peterborough Evening Telegraph "Police back down on CB"

"Cambridgeshire Police have not declared all out war on CB radio enthusiasts despite warnings of stepped up action against the pirates", announced chief inspector Chris Thorburn after a previous announcement by Chief constable Victor Gilbert earlier in the month, warning of a massive clamp down on users of the illegal sets.

Mr. Thorburn revealed that it was not the average CB user that they were after but those that are using power boosted sets that are causing a danger to life. "It was not the police intention to launch a blitz on CB users operating a simple 4 watt set although they are transmitting on an illegal frequency", he added, "their boosted signals can, and have, blocked vital police, fire brigade, and ambulance transmissions in Cambridgeshire and we cannot tolerate this", he continued. He also pointed out that Post Office detector vans are being used to track down the boosted sets and that anyone convicted could face public condemnation, prosecution, severe penalties, and forfeiture of equipment.

The Customs and Excise office in London confirmed that CB sets had been confiscated but could not say how many. A spokesman for the county police said the same.

## CB users conned by gangs Morning Telegraph (Sheffield)

It seems that because of the legal situation regarding CB Radio in this country, Breakers are being caught left right and centre by con men, thieves and thugs. This is only one of many news articles concerning this type of dirty deed I have received over the past couple of months. It would seem that a gang of con men are posing as Home Office detectives, who with the aid of forged documents are confiscating rigs and re-selling them at ridiculously low prices.

The gang tune into the breakers to find out where they meet and turn up with their official looking letter of authority giving them permission to confiscate the equipment.

It is a point worth mentioning, that Home Office officials are normally accompanied by Police Officers when such a situation arises, and also a Post Office engineer is present to confirm that the equipment works on an illegal frequency. It is also worth mentioning that it is not always a good idea to broadcast the venue for your local club meet on channel! Perhaps, with a little luck this type of foul play will stop in the autumn when legislation comes through on FM?

## Halifax Courier "Tuning in to aid Disabled"

About 20 members of the "Band Town" breakers set off from Bradford Road Brighouse, Halifax, on a sponsored wheelchair push to Leeds. The event, which was in aid of the International Year of the Disabled, was escorted by police for part of the way. The pushers, some of them in fancy dress costumes, were also assisted by a mini-bus and a car with a P.A. system. This is only one of at least ten other similar bed pushes to Leeds.

## Northern Echo "Decoy Sinks Rubber Ducks"

It would seem that dressing up as customs men and conning apparently gullible breakers out of their rigs, is this years most fashionable crime. The two particularly nasty specimens mentioned in this clipping have acquired, by devious means no doubt, official customs uniforms and a sticker with the official Port-cullis insignia used on customs office vehicles.

The diabolical duo have been operating in most of the seaside towns in North Yorkshire with the aid of false identity cards. Their ploy is to tell the breakers that their rigs are being confiscated in order to carry out special modifications and needless to say not returning them. Police are warning breakers in the area to beware of these men, who operate from a white mini, and are expected to be working their way up the coast towards Cleveland.

## Eastern Daily Press "Breakers in Long Haul for Charity"

Members of the Norfolk Breakers Club towed a 3½ ton lorry thirty five miles from Norwich to Lowestoft to raise money for charity. Over 300 men and women turned out to help haul the truck through Acle, and Yarmouth before heading along the A12 to the finishing point at the entrance to Lowestoft's South Pier.

The haul, arranged by Huggy Bear, better known as Bob Edwards from Norwich, was sponsored by several local companies, who also supplied refreshments and transport back to Norwich. The event is expected to raise £4,000 for the local Spastics Association.

## Stafford Newsletter "Anger after blitz on CB operators"

CB operators in the Stafford area are withdrawing their services, with regard to emergency monitoring. Their action, or lack of it, comes after a clamp down on CB by the local police. Members of Stone's CB Club claim that 50 rigs have been confiscated from cars and lorries as a result of spot checks in Stafford. As a result the breakers have taken out their rigs and the airwaves are silent this week.

"We have helped the police in many ways recently at accidents, and informing other drivers of road delays. We have even raised money for charity", said Cooter, member of the Stafford Stone and Potteries CB Clubs. "Now the police have lost hundreds of extra pairs of eyes, we will give no assistance until this persecution stops".



## Tuning in to aid disabled

TWENTY Citizens' Band radio enthusiasts took part in a sponsored wheelchair push from Brighouse to Leeds for the International Year of the Disabled People. The enthusiasts, all members of the Band Town Breakers, set off with two wheelchairs from Bradford Road, Brighouse. Some members were in fancy dress. They were accompanied by a mini-bus and a car equipped with loudspeakers, and had a police escort for part of the journey. Ten other Yorkshire CB radio groups held wheelchair pushes to Leeds.

# Club Spot

**GFD City Breakers**  
In March issue it was stated that GFD City Breakers meet at Rowbridge GFD. Sorry but the venue has been changed. It is now at the Cannon on Tuesday night. Hope you will come along.  
73's & 55's 360.  
CHARLIE MOBILE (THE DUKE)

## Dukesville Breakers Association

Dukesville Breakers have been formed for about six months and our number is fast approaching 300.

We held a very successful demonstration in Dukesville just before Christmas with about 700 supporters turning out. We have since had a Treasure Hunt and Film Show. We have also held a Charity Dance and raised over £200 towards a local paper's appeal for a Kidney Machine, with another of these planned for the near future. Lots of other activities are also in the pipeline.

The Club's Eyeballs every Wednesday at the Dukeries Night Spot and all Good Buddies are welcome.

Petticoat  
(Sec.) D.B.A.

## B.A.B. (Breaker Alley Breakers)

Breaker Alley runs from the 13 Sisters, (viaduct at Loudoun Hill) to the Horsehoes (a roadside Smiddy) on the A71 Edinburgh to Kilmarnock route, taking in 3 towns, Terylene Town, (Darvel) Volcanoville, (Newmilns) and Ghost Town (Galston).

We take no fees, have no committee and make no rules other than members must reside in Breaker Alley and be a registered member in our Mother club K19 Club, Kilmarnock.

We eyeball in the S.A.L.T. (Standalane Tavern) Ghost Town, most nights and meet officially every first and third Monday, to discuss the legal and technical problems etc. of using CB and appoint a 'Rep' to speak at K19 club nights. We break on 19 and monitor 19 approximately 20 hrs. a day.

We want to see CB working correctly, so be it a Mini Skateboard or a Super Swede 18 Wheeler if you need a 10.13 a 10.36 or even a radio check give us a shout.

All the high numbers to you and yours, bye bye we gone.

The Wheelin Dealer (Volcanville)

## The Goytre & District Breakers Club

The Goytre & District Breakers Club was formed a few months ago and has about 60 members but we are growing every week. At th moment we meet each Thursday except the last Thursday of the month, at a pub central to the area we cover but we are on the lookout for a larger meeting place. Anyone wanting details just call on 14 for any local breakers.

Secretary Lady Magpie

## L.B.B.C. (Leighton Buzzard Breakers Club)

The L.B.B.C. was formed in early November 1980. We used to hold our meetings at the Red Lion Den, Hockliffe but have recently moved to the Bossard Hall, Leighton Buzzard, because we outgrew our previous venue. We have over 200 members and hold a raffle every week.

If you would like to visit us, we open at 8 o'clock Thursday nights. The drinks are very reasonable and we will be holding regular Disco's.

Just break on 14 for directions, new breakers always welcome, hope to see you soon.

All the golden numbers.

Sue Ellen (Secretary)

## Hope Valley Breakers Club

We are a newly formed club in the Hope Valley area of Derbyshire. Since our first meeting on the 10th March we have already doubled in members.

Breakers come to our eyeballs from as many as a dozen different home twenties. Besides the social side we are going to arrange some events to raise money for a local charity. New breakers are welcome and breakers from other clubs are welcome to pay us a visit.

We hold our eyeball every fortnight on a Tuesday because we change our venues contact our club sec.

All at the H.V.B.

## Broadland Breakers Club

We formed the B.B.C. (Broadland Breakers Club) three months ago, we now have 68 members. We meet the first Sunday in the month at the White Swan Stallom, everyone is welcome but all we ask is come clean and green. 10-10 till we meet again.

Road Runner (PR Man)  
Chairman - Nightrider,  
V.Chairman - Blacksmith  
Treasurer - Magic Lady  
Secretary - Maid Marion

## Road Runners Club

Every Tuesday night we have a social at Winstons in the high street, Exeter. breaker from any other club are more than welcome, just ask for the playboy. We also have a monthly meeting at the Countess Weir Lodge, Topsham Road, Exeter, to which I may add is for members only.

By the way our membership now stands at 458 and still growing. We are also

interested in getting in touch with other clubs in the West Country.

Bye Bye We Gone.

## Gwent Breakers

We meet at Highground 3 Bar (Baileys Night Club Catsash Newport) on Thursday, Friday and Saturday. On Thursday and Friday the club is open until 12.00 or if by popular demand, we can stay open until 2.00 o'clock am. Every Saturday night we have a Yogi Bear Disco until 2.00 am.

We have many club functions such as treasure hunts, convoys to skating rinks and zoo's, fancy dress nights and man mountains (which is the Welsh way of playing hide and seek). We have a very good sideband section who will help and advise any newcomers to DX'ing. We certainly believe in having bundles of fun. Fees for joining - £5.00 per year including his against Buzby or £2 per year ordinary social membership.

Blackwing.

## Calling all DX'ers

May we, on behalf of the Big Ben DX QSL Club U.K., introduce you to England's second International Q.S.L. Swap Club. The club was started up back in December of last year. After receiving Q.S.L.'s from all over the world we decided it was just as good to start up Big Ben. The reason behind the name is it relates to England and the clock is known throughout the world as part of London.

We send a good club package, including rubber stamp and wall certificate I.D. card and unit no, Q.S.L. from other members etc. etc.

At the time of writing we have a membership of 76 and members are scattered in America, New Zealand, Australia and all over Europe and of course in our own U.K. If you would like to join contact us at "Big Ben DX Q.S.L. Club, 14a Bridge Street, Godalming, Surrey. Or telephone Godalming 20734.

73's and 55's. Q.R.T. on the side.

The Duke (C.36) and Duchess

## The 10/20 Breakers Club

We are a newly formed club in the Kilmarnock area. We meet every second Tuesday evening in the Harlford Working Men's Club in Hurlford. We intend to do everything in our power to have CB legalised, and to prove to the authorities that CB is helpful and useful to the community.

We break on channel 14. In our area please be kind enough to stay clear of channel 2 "Hospital Paging System".

10-10 for now, all the high numbers.

Big Daddy (Chairman)



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*Shakespeare*



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# Happy Birthday

The hardworking and devoted staff at CB Radio would just like to say Congratulations on the birthday of the magazine, and keep up the good work.

## Telford CB Enthusiasts start new charity drive

Following the recently completed campaign to raise Funds for PC Phillip Olds, the members of the club have voted to support a fund raising drive to help young Gareth Payne.

Gareth, aged only 20 months, is in need of a liver transplant, an operation only possible in the U.S.A. The target is to be £5,000 from this club and any funds over that amount will be donated to a trust fund for children in need of major surgery.

A special entertainments committee has been formed dedicated to organising events of fund raising nature. Challenges will be forthcoming to other CB clubs to join in competitive events and the hope is that the appeal will become a nationally supported campaign through the ever growing network of CB clubs.

At one of our club meetings, over two hundred members voted to support the campaign - any help from local traders will be appreciated. Special lapel badges are being produced for sale and will be sold throughout Telford by supporters of the appeal.

Details of events - all of which will be most enjoyable to both participants and spectators alike - will be passed to the media as they are arranged.

Further information from the Club PR Officer: 'STETSON'. Telephone Telford 603474.

## Thanks S.Wales

Having taken my rig on a recent trip to South Wales, I put a few copies out in Cardiff. As there were few people I knew there socially, I had a good eyeball, which resulted in a great night out in good company and the offer of accommodation. Could I, through the pages of your mag offer my sincere thanks to the breaker(s) concerned for their hospitality. Roll on C.B.

10-10 see you again.

PICASSO (Royal Town)

## Freebee CB D.Day Convoy

On June 6th 1981 there will be a convoy from Newquay, Cornwall to London.

The convoy will be leaving Newquay at 7am, travelling through Plymouth and Exeter and down the M4 into London, arriving at Hyde Park for a rally at 2.30pm.

The breakers involved in the convoy are campaigning for 27MHz AM. Details

of the convoy can be obtained 24 hours a day by ringing 0726-822084.

## Operation Super Star

My friend has a Super Star 120 which is now with his surgeon as he had a short on his power supply, which has blown the TA7222 audio output i.c.

His problem is he cannot get this part. Could anyone let me know if there is a supplier in this country he can get the part from. If not can you give an address of a Super Star maker. We have been told there is a supplier in the U.S.A.

M. NICKLIN

## Charity Rig Push

The West Wales Breakers Club hope to push a large rig (CB type) from West Wales to Scotland and would like to hear from clubs that would be willing to help us in this venture. Proceeds from this push will go for buying FM rigs for disabled people in this the Year of the Disabled.

Please contact the DIPSTICK on 03486-474.

## Birthday Thanks

In this, our First Birthday issue, we would like to thank everyone for the co-operation and help that we have had in the past year. Thanks in particular to Stephens Press, Middlesex Print Finishers SM distribution, all our advertisers and most of all our readers.

## 'Armed and extremely dangerous'

7.30pm on a Thursday in March, a hurried 10-33 came over channel 14. An armed man was en-route to the Maidstone Army Barracks in search of Squaddies and he didn't want to buy them a drink. A description of the man and his car was given with an assurance that the police had asked for assistance in apprehending him. The local breakers, being law abiding citizens all jumped in to help. DO NOT APPROACH was the warning, spot and report. The area around the Barracks and town centre saw more breakers than it had ever seen before and soon reports were flying in thick and fast on channel 16, these were monitored by a breaker in constant contact with the local police station. At 8pm a report came in that he had left his car and was on foot. Immediately the breakers covering the pubs used by the Squaddies moved along the

route where he was seen. During the periods that no reports were coming in the description was broadcast: 5'5" tall, blondish hair, wearing a leather jacket and Levis, carrying a blanket wrapped shotgun. He is on foot heading from Mote Park to the army barracks. DO NOT APPROACH. Then came another report, the balance of the mans mind was on the brink, it was believed he was only after one particular Squaddie but we could not be sure. Any breaker spotting a Squaddie was to get him off the streets fast.

At 10.30pm your correspondent was reminded that the local boys brigade was just turning out in distinctive uniforms, not Squaddies admittedly, but were they safe? Many of them had to pass the barracks to get home. We were faced with 3 options. 1) Leave them and hope for the best. 2) Let them know what was happening and possibly cause undue alarm. 3) Send a few cars to follow them home. The latter was what we did and about half a dozen cars went out. These were not breakers, just public spirited citizens from my area, who were told not to alarm the boys, just keep an eye open and if the man was spotted to pick them up and take them home. This passed off with no incident and it was back on channel 16. Things had quietened down and everything we knew was collated 1) his description. 2) his intentions: to kill a squaddie. 3) The fact that due to the balance of his mind he was very dangerous. 4) He was armed.

At midnight I just could not carry on, I had been up since dawn so off to bed I went. The next day I made a few phone calls to gather information. The police told me that he had been caught and would be appearing before the magistrates at 4pm and that was all they could say. Next I phoned the army. "Sorry sir, official secrets, etc. can't tell you anything. Try the police". That was me stumped, here I was stuck in Smokey Town and just half an hour to the court case. Aha, my old grey cells started off again and I phoned the court. At 4.35pm Friday, March 20th, a Mr. Walker was charged under section 15 of the offence against the persons act, with intent to murder.

Although I could not get the information officially, I am informed that "The Citizens Band Radio enthusiasts played a large part in the apprehension of Mr. Walker". The result of the case will be included in a later edition of this magazine, as soon as I have the official ruling.

So next time you hear of anybody condemning the breakers, just let it be known we have saved another life.

DAVE BURNS  
(Area reporter for Maidstone, Kent)

**Attention Brighton**  
The Hillingdon Breakers Club on Sunday June 14th. would like to arrange an eyeball with a local breakers club. Any breaker from the Brighton 20 please phone the H.B.C. secretary, Maria Dillon, on 01-848-4047.



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# The Law and You

## The Customs and Excise Management Act 1979.

For some time now in this spot we have dealt with the Acts and the actual workings as can and indeed is often applied to CB offences. For a few the last two issues will have been heavy going and an example of why the law is not easy to follow when related to citizens band.

This month we must deal with the major and most powerful Act that can relate to our subject. Major and most powerful because the Customs and Excise are exactly that.

Simplifying any Act or part of Law can be exceptionally misleading, therefore we will relate the relevant sections and summarize briefly the general intent of the section.

### Assistance to be rendered by police

It shall be the duty of every constable and every member of Her Majesty's armed forces or coastguard to assist in the enforcement of the law relating to any assigned matter.

*Basically assigned matter is anything enclosed within the C & E Management Act, the term constable means any members of the service holding the office of a constable, not just a police constable.*

### Power to search vehicles or vessels

1. Without prejudice to any other power conferred by the Customs and Excise Acts 1979, where there are reasonable grounds to suspect that any vehicle or vessel is or may be carrying goods which are:-

- a) chargeable with any duty which has not been paid or secured; or
- b) in the course of being unlawfully removed from or to any place; or
- c) otherwise liable to forfeiture under the Customs and Excise Acts, any officer or constable or member of Her Majesty's armed forces or coastguard may stop and search that vehicle or vessel.

2. If when so required by any such officer, constable or member the person in charge of any such vehicle or vessel refuses to stop or to permit the vehicle or vessel to be searched, he shall be liable on summary conviction to a penalty of £100.

*Simply the only question to be answered is 'reasonable grounds'. If a CB transceiver is mounted in a vehicle does a constable have reasonable grounds to assume it is contraband and subject to (a), (b) or (c).*

### Power to search premises

1. Without prejudice to any other power conferred by the Customs and Excise Acts 1979 but subject to subsection (2) below where there are reasonable grounds to suspect that anything liable to forfeiture under the Customs and Excise Acts is kept or concealed in any building or place, any officer having a writ of assistance may:-

- a) enter that building or place at any time, whether by day or night on any day, and search for, seize, and detain or remove any such thing; and
- b) so far as is reasonably necessary for the purpose of such entry, search, seizure, detention or removal, break open any door, window or container and force and remove any other impediment or obstruction.

2. No officer shall exercise the power of

entry conferred on him by sub section (1) above by night unless he is accompanied by a constable.

3. Without prejudice to subsection (1) above or to any other power conferred by the Customs and Excise Acts 1979, if a justice of the peace is satisfied by information upon oath given by an officer that there are reasonable grounds to suspect that anything liable to forfeiture under the Customs and Excise Acts is kept or concealed in any building or place, he may by warrant under his hand given on any day authorise that officer or any other person named in the warrant to enter and search any building or place so named.

4. An officer or person named in a warrant under subsection (3) above shall thereupon have the like powers in relation to the building or place named in the warrant, subject to the like conditions as to entry by night, as if he were an officer having a writ of assistance and acting upon reasonable grounds of suspicion.

*The important wording is "any officer having a writ of assistance may" section (1) last line. Without such a writ (possessed by all active Customs Officers of an officers grade) or a search warrant if a constable previously applied for and granted by a justice of the peace (section 3). Then access or admission to search premises can be refused.*

*Once more this 'writ of assistance' must have been granted on "reasonable grounds to suspect".*

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# CB Radio - Project Four



## A 50 Ohm Dummy Load

by F.C. Judd.

A dummy load could be regarded as an 'artificial antenna' and indeed this is what such devices were once known as. The circuitry of dummy loads are normally purely resistive so they can be designed to represent equivalent impedances of virtually any required value. The most common impedance at present in use for transmitters, cables and antennas for CB radio is 50 ohms. Real antennas do not have a purely resistive property, if they did we would never have to be concerned about VSWR. The electrical circuitry of an antenna is a combination of inductive and capacitance reactance plus a certain amount of pure resistance the whole adding up to what we commonly call impedance. If these various elements assume a final impedance different to that required e.g., to match a 50 ohm transmission line, then the antenna is said to be mismatched and a higher than normally acceptable VSWR will be indicated. However, there are other reasons for false indications of VSWR most of which have been dealt with in previous articles (see March issue for instance). One cause for high VSWR would be a broken cable connection and another is water present in a cable. Poor radiation from an antenna can be due to inferior or very old co-axial cable. The method for checking such possibilities with the aid of a dummy load was also dealt with in March issue of CB Radio. There are numerous other uses for a dummy load, one being able to check the function of a transmitter without radiating and causing unnecessary interference to others. An accurate check on the power output from a transmitter can only be carried out with a dummy load having a resistance exactly equal to the output impedance of the transmitter, as will be explained later.

### The Dummy Load Circuit

The circuit given in fig. 1 provides a purely resistive load of nominally 50 ohms and has a built in LED indicator to show when power is present in the load. It will handle 20 watts more or less continuously or up to 100 watts intermittently i.e., for periods of a few seconds which is long enough to take a meter reading.

The formula for verifying the total nominal resistance of the circuit in fig.1 is shown:-

$$I_{load} R_D = \frac{I}{R(1+s)} + \frac{I}{R_9} + \frac{I}{R_{10} + \frac{1}{\frac{1}{R_{11}} + \frac{1}{R_x}}}$$

This takes into account the conductivity of the LED (Rx) and the resistance network R10 and R11 associated with it. Using the given values of all the resistances R1 to R9 and a total value of R11 plus Rx of 48.8 ohms, the answer to the equation is the load  $R_D = 50.15$  ohms. In practice ordinary carbon resistors have a plus/minus tolerance on actual value so the working value of the load will be within about plus or minus 1% of the nominal 50 ohms i.e., within about half an ohm.

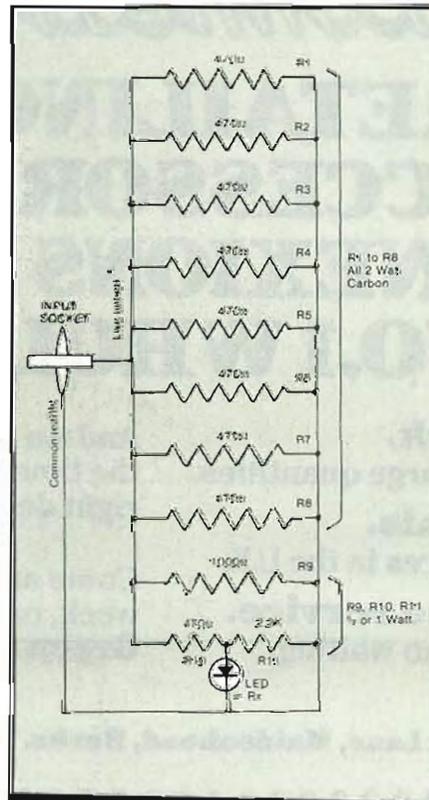


Fig. 1: The circuit of the 50 ohm dummy load.

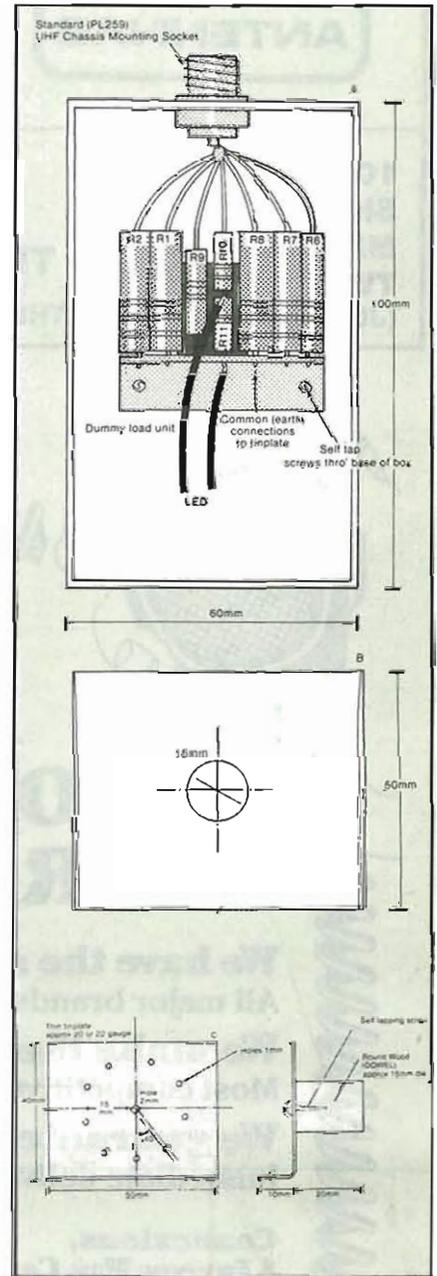


Fig. 2: (A) General assembly of load unit within the case. (B) Location of UHF input socket. (C) Tinplate chassis for resistors common (earth) connection. (See text)

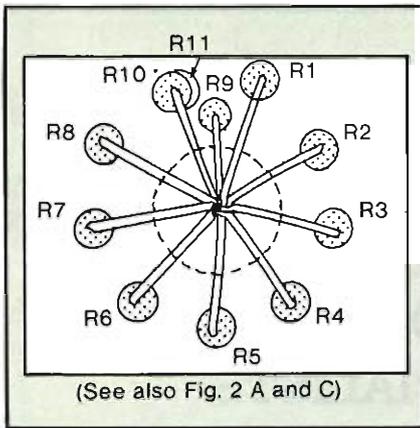


Fig. 3:  
End view of resistor plate as Fig. 2C. The round wood dowel is to assist in keeping resistors in a circle.

## Construction

The load unit itself is made up largely of eight 470 ohm 2 Watt rated carbon resistors all in parallel, the assembly arrangement being shown in fig. 2A. As all the resistors in the circuit are connected at one end to the common (earth) connection from the input socket they are mounted on a small chassis made of thin tinplate, details of which are given in fig. 2C. This has a short piece of wood (round dowel) to keep the resistors in a circle as will be seen from the 'end on' view in fig. 3.

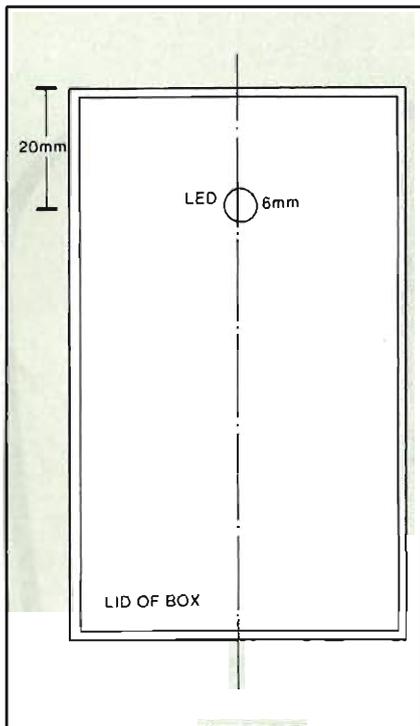


Fig. 4: Location of LED in the case lid.

The LED indicator is mounted in the lid of the box as shown in fig. 4. It does not matter which way round the leads to it are connected, but one must go to the common (earth) connection and one to the junction between R10 and R11. All the other free ends of the resistors R1 to R9 and the remaining end of R10 are joined together as shown in fig. 2A and connected to the socket line or inner terminal. *Make sure that all these connec-*

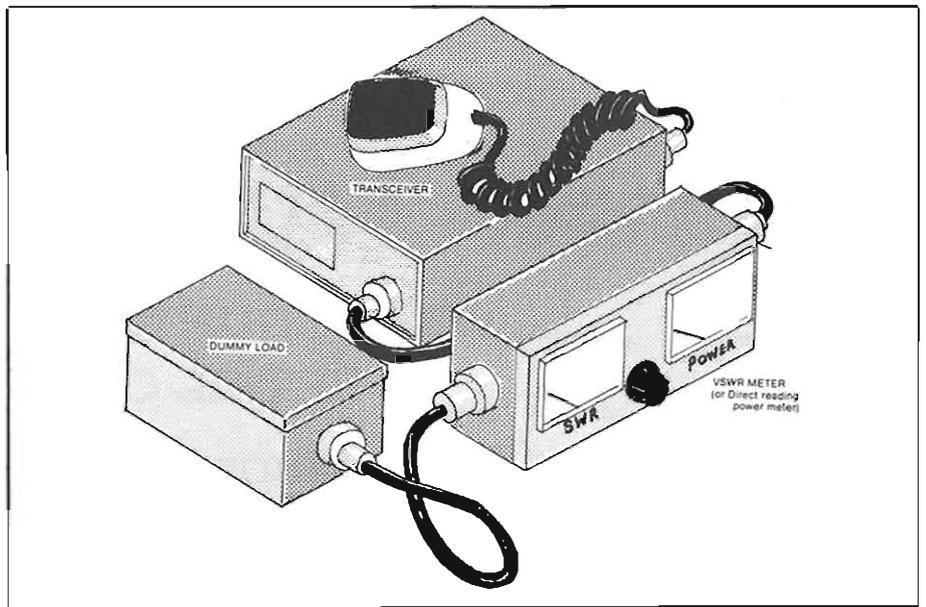


Fig. 5: Connection for checking out dummy load.

tions are well soldered. Dry joins or no soldered connection on any one wire will render the unit useless.

## Check out and Uses

Connect the output from the transceiver (no linear amplifier in use or even connected) to the dummy load via a VSWR meter as in fig. 5 with power level set for reference as usual. The VSWR should be 1 to 1 and not more than 1.1 to 1. The lowest power level at which the LED will glow is 2 watts. At power up to 10 watts it will glow brighter, but above 10 watts will simply maintain an even brightness. The finished prototype as shown in the photo was checked with a laboratory grade Bird Thru-Line power meter and gave a virtual 1 to 1 VSWR at the nominal rating of 20 watts over a total frequency range of 3MHz to 150MHz.

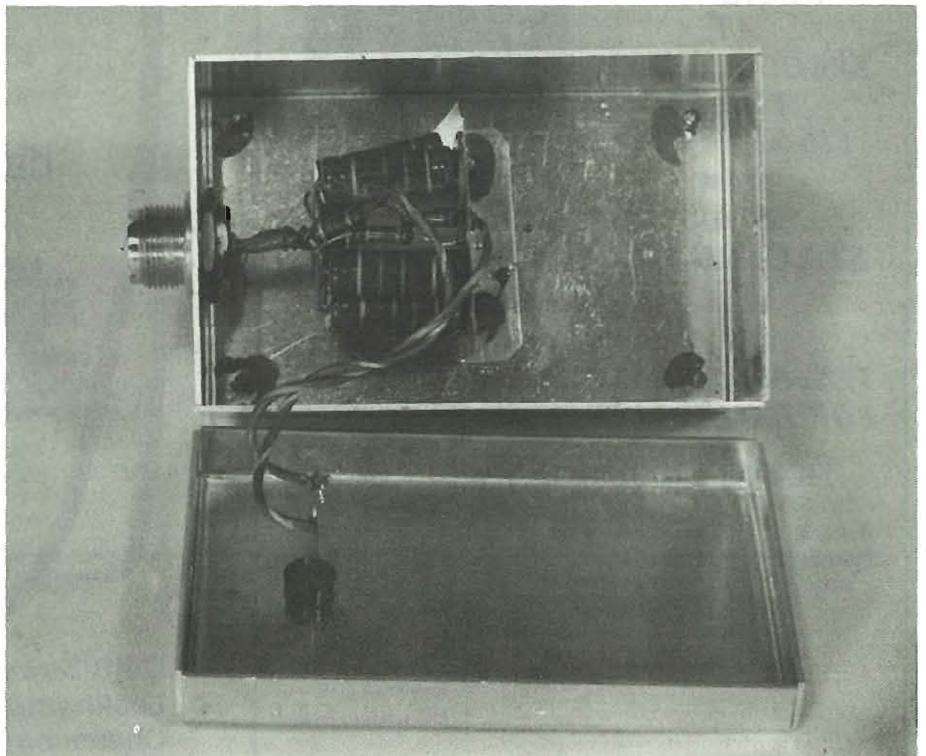
## Components

Case	Aluminium 100 x 60 x 50mm Bi-Pak type BA5 Cat No. 163.
Socket	Chassis mounting UHF to accept standard PL259 plug. RS Components type 455-905.
LED	Any standard type (Red) such as RS Components type 586-475

## Resistors

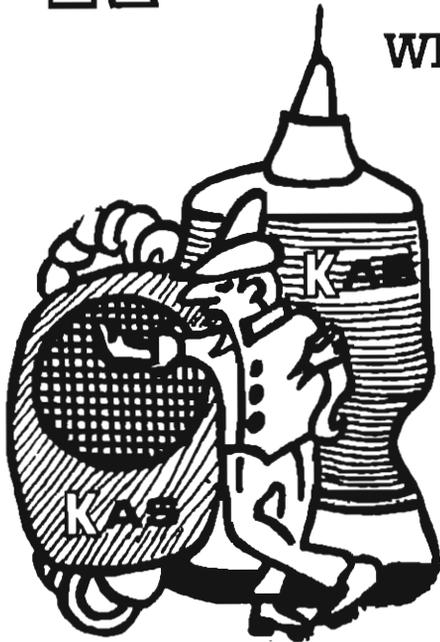
R1 to R8	470 ohms 2 watt carbon type.
R9	1000 ohms ½ or 1 watt carbon type.
R10	470 ohms ½ or 1 watt carbon type.
R11	22K ohms ½ or 1 watt carbon type.

Sundries as mentioned in diagrams and text.



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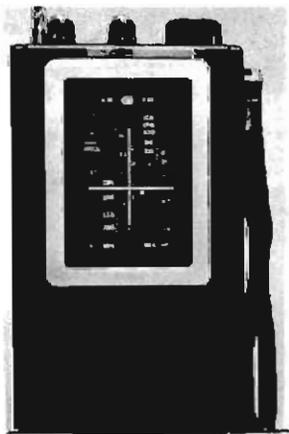
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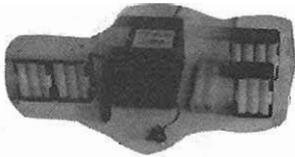


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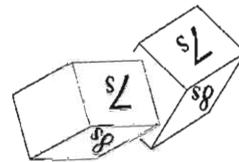
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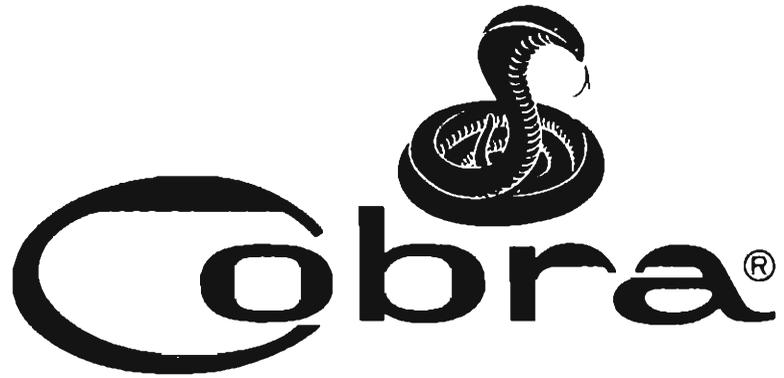
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## K40

★ CBC ★

# Rig Test

Cobra 148 GTL (Dynascan Corp.)



*This is the first of a new series of test reports prepared especially for us by Herb Friedman of New York. It is not, unlike other reviews, copied either straight from the manufacturers specifications or direct from an American publication. This will become obvious when we publish an article by Herb on the equipment he uses and how the tests are carried out.*

The Cobra 148 GTL is a 40-channel AM/SSB transceiver for mobile and base operation, and operates off a power source of 12-13.8 VDC or 120 VAC. The DC power source can have a negative or positive ground (earth) since there is no direct connection between the transceiver cabinet and the power supply.

Overall dimensions measure 2.4"H x 7.9"W x 9.25"D. Weight is 5 pounds. Standard accessories include a plug-in

## Test Results

### Receiver:

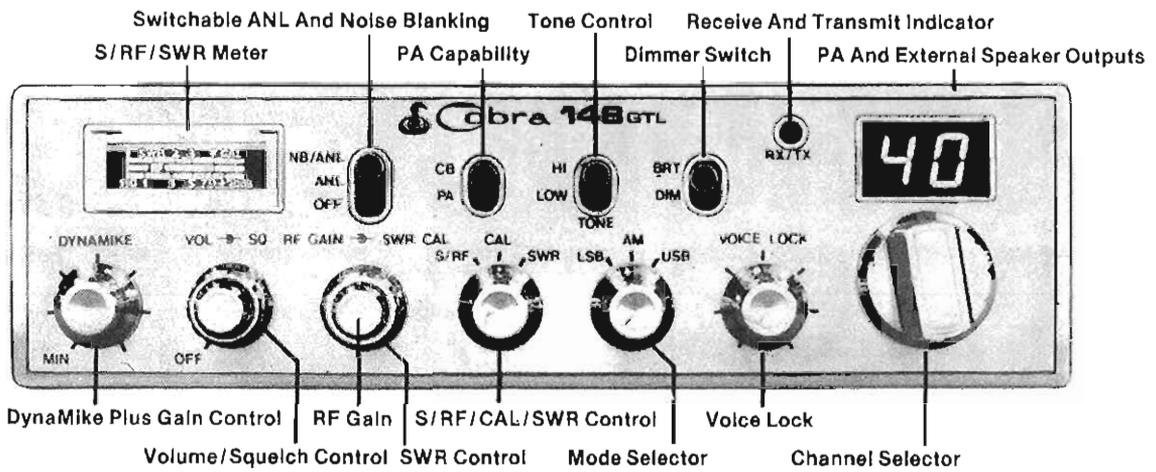
Input sensitivity for 10-dB S+N/N .....	0.5 $\mu$ V
Worse-case adjacent channel rejection .....	69 dB
AGC range for 80 dB input range .....	16 dB
SSB opposite sideband rejection .....	40+ dB
Input level for S9 meter indication .....	15 $\mu$ V
S-unit value .....	Relative (non-calibrated)

### Transmitter:

AM RF output/50 ohms .....	3.8 watts
SSB RF output/50 ohms .....	12 watts PEP
Modulation capable of 85% .....	Yes
Relative sensitivity for 85% modulation .....	off to -45 dB
Modulation limited to 100% .....	Yes

(Note: Test results from signals synthesized to be the equivalent of those common to actual CB operations).





## SPECIFICATIONS

### GENERAL

**FCC:** All transmitter and receiver specifications required by the FCC have been met or exceeded.

**Dimensions:** 2-3/8" (H) x 7-7/8" (W) x 9-1/4" (D)  
60MM (H) x 200MM (W) x 234.7MM (D)

**Weight:** 5 lbs.

**Power Source:** ± 13.8VDC

**Frequency Range:** 26.965 MHz to 27.405 MHz

**Semiconductors:** 42 Transistors, 3 FET, 51 Diodes, 6 ICs,  
2 LEDs

**Crystals:** 4

**Microphone:** 600 ohms, Dynamic Type

**Speaker:** 8 ohms, 3W

**Antenna Connector:** SO 239

### TRANSMITTER

**Frequency Tolerance:** 130 Hz

**Power Output:** 4 Watts AM - 12 Watts P.E.P. SSB

**Carrier Suppression:** -55dB SSB

**Unwanted Sideband Suppression:** -50dB SSB

**Modulation Frequency Response:** 300 Hz to 3000 Hz

**Output Protection:** Output transistors protected against mismatch 20:1

### RECEIVER

**Sensitivity:** AM: 0.5uV - SSB 0.25uV

**Selectivity:** 2.1 KHz at 6dB - 4.0 KHz at 60dB

**IF Frequencies:** AM 7.8 MHz, 455 KHz, SSB 7.8 MHz

**AGC:** Less than 10dB change in audio output from 5uV to 50,000uV

**Adjacent Channel Rejection:** 70dB

**Audio Output Power:** 4 Watts

**RF Gain Control:** 40dB

**Image Rejection:** 75dB

**IF Rejection:** 455 KHz = 100dB - 7.8 MHz = 85dB

**Voice Lock Range:** ± 1.5 KHz

### PA

**Output Power:** 4 Watts

PTT (push-to-talk) microphone, DC power cable, AC power cord, and a detachable mobile mounting. The mobile mount is the familiar U-bracket for under-dash transceiver installation. Each end of the bracket is secured by two thumb-lock screws. The lead-or-front-screw fits a small vertical cut-out in the bracket that permits a moderate degree of up-down tilt for ease of control operation.

Across the bottom of the front panel are controls for: DYNAMIKE (microphone gain from off to maximum sensitivity); concentric VOLUME/SQUELCH; concentric RF GAIN/SWR METER CALIBRATE; METER FUNCTION (S/R/F, SWR CAL, SWR); USB/AM/LSB operating mode selection; and VOICE LOCK, which is a ±1 kHz fine tuning control. At the far right is a larger control used for CHANNEL SELECTION.

Across the top of the front panel from left to right are: a combination meter that indicates signal strength in "S-units" when receiving (S-meter); relative RF output when transmitting; or antenna system SWR. Next is a selector switch for either the noise limiter or the limiter in conjunction with an RF NOISE BLANKER; then the selector switch for CB or PA operation; a **low/high** TONE CONTROL; a **bright/dim** selector for panel illumination; a **red** (transmit)/**green** (receiver) RX/TX indicator lamp; and finally - at the extreme right - an LED channel indicator.

The rear apron has a standard UHF coaxial antenna connector and jacks for external and P.A. (public address) speakers. The transceivers internal speaker is on the bottom, facing downwards; the most common location.

# CB RADIO

**NEXT MONTH**  
THE RIG REVIEW WILL COVER THE  
COBRA 66 GTL. A COMPACT, ONE  
HAND OPERATED UNIT.

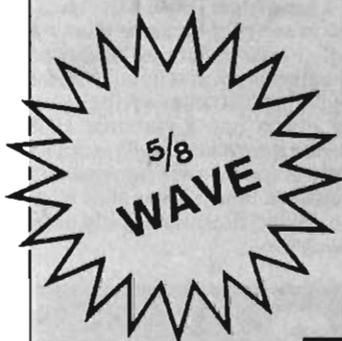
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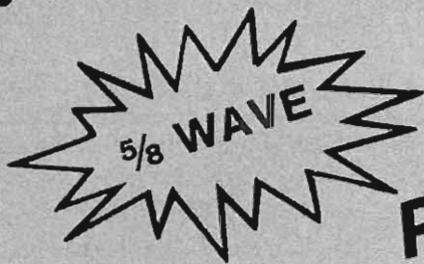
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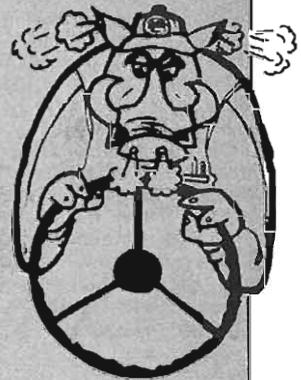
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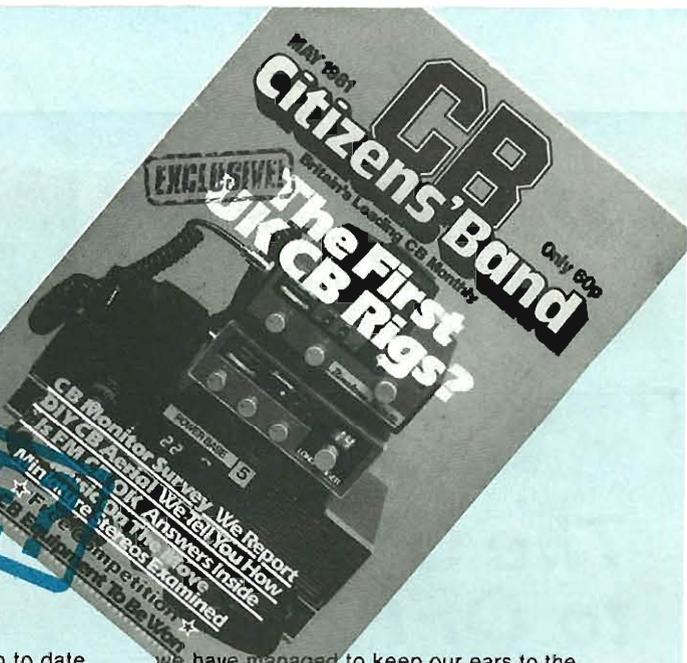
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# Citizens Band

**EXCLUSIVE!**



## CB Radio Magazine lifts the lid off their UK Rigs.

This article is going to be out of keeping with our normal sit back and say nothing about the competition attitude. Perhaps I am closer to the subject than is truly good for me, I eat, drink, talk, work and live CB. This magazine was started to bring you the facts or at least a well founded interpretation of the subject, it was not contrived to make vast fortunes or cash in on the latest craze. On the contrary the initials CB meant little or nothing to the public when we started.

For these reasons my blood boils when I see the enthusiast misinformed or fed pure fiction. Many at this point could accuse us of jealousy and expect us to knock our competition in order to gain financially. Not so, for as the first and original magazine we are the most copied and as it happens, the best selling.

But I digress, one example of a typical blood boiler was "Breaker" issue 4. Emblazoned on the front cover beneath the wording "The Citizens Band Radio Magazine" was the question "27 FM legal - dream come true? - or nightmare?" Naturally I expected to read the introduction and be enlightened. I waded through the waffle

of going monthly to keep you up to date, noted their comments on being copied by rivals and thought yes we've had that, (actually I am surprised Richard Vincent of Firestik Antennas hasn't sued "CB News", but that's another story). By now I was beginning to suspect that the worst possible dilemma had struck, Breaker must have started going to press before the announcement. Being a publisher I sympathised as I read "Here we are, February 19, and no such announcement has been made". We are still certain that it will be. We are still sure it will be 27MHz. We are sure that we will need to be monthly in order to cope with the situation when it happens". Oh well some you win some you lose, we have been lucky so far or at least

we have managed to keep our ears to the ground. But to be fair to Breaker they did have some information inside on the FM situation, but the front cover was obviously slightly misleading.

## The first UK CB Rigs?

On the subject of front covers this was the heading that appeared beneath the wording "Britain's Leading CB Monthly" on the May issue of Citizens Band. Stamped across it was "Exclusive!"

Turning to the appropriate page entitled "Rig Review Exclusive!" I read with interest, their intro "Another exclusive for Citizens Band. We have managed to obtain samples of the very first pre-production prototype CB transceivers



Compare two of the three rigs on the spread with those opposite.

specifically designed for the UK market. Rick Maybury reports.

Now that's what I call a startling and darn right fantastic statement. I read on and found my invitation "Now, unless somebody tells me different the three rigs pictured on this page, and on our front cover, are the very FIRST pre-production prototype CB transceivers designed for the UK market".

### CB Radio Mag tells you different.

No Rick they're not as you say "specifically designed for the UK market". They are at present PTT approved 'marc' transceivers as used in Holland. No big deal. No scoop. No exclusive! All they are is 27MHz FM transceivers that could be, and indeed if possible no doubt will be, adapted to suit the British market if the specification allows.

### "Binatone Route 66" or 'Senfor Skyline SM-2008"

What's the difference? Only the name. Compare the photographs for yourself.



### "Binatone Power Base 5" or 'Senfor Skyline SM-2010"

Once more spot the difference? There isn't one, unless you consider photographically, the Power Base 5's HI-LO Tone control has been covered by the microphone lead, on the front cover photo, but rest assured it's there.

### CB Radio Contest!

Everyone's into contests at the moment, so how about identifying the third rig as photographed by Citizens Band. Labelled as the Longranger, could it be an SM-2009, oops sorry, cancel that competition, who wanted a night out with the editor anyway. P.S. Sorry Rick, nothing personal!

CB Radio Magazine wishes it to be noted that 'Citizens Band' were not informed of our intention to print this article, but that we would like to thank them for making it possible. Their article is in no way to be misintepreted as totally false, as I am sure Binatone has every intention of marketing these sets adapted for our British specification (possibly available around September 21st?). The point of our article is merely to prevent vast amounts of the public saving for a rig they believe to be specifically designed for the UK market, which is how 'Citizens Band' portrayed the 'First UK CB Rigs'.

(P.P.S. look out for the 'Grandstand' rigs, we will tell you the truth next month!)

Photo below: Re-produced from "Break Break". The official organ of the Netherlands Communication Federation. With our thanks and gratitude



The Skyline SM 2010 pictured above was reviewed in a full eight pages of 'Break Break' back in their March 81 issue. Could it be the same transceiver quoted by Citizens Band as "specifically designed for the UK market".

The Skyline SM 2010 compare this with the Binatone Power Base 5.

Below: the three rigs as they appeared on the front cover of Citizens Band May 81 issue. Have you spotted the difference, any difference. Were they exclusive British re-production prototype's or Dutch with stickers? Why not ask Citizens Band? 01-437 1002.

Above left: A Senfor Skyline SM-2008, once more PTT approved and available now. It looks remarkably like the top Binatone pictured below right.



# Parliamentary Review



The 27MHz specification announced in the House in reply to a written question.

For the majority of MP's Citizens Band remains a topical and interesting subject, the announcement of specifications on April the 28th in an answer to a written question by Mr Wall the conservation MP for Halenprice. As can be seen Mr Wall along with other MP's had continually been asking the same questions.

There was a delay in the official release in Parliament of the specifications because the House went into a ten day recess rising, April the 16th and resuming April the 27th. This was the Maunday Thursday recess which will be followed by two Bank holidays in May.

Due to the quantity of recess days there will obviously be a slight delay in seeing how reaction to the new frequencies affects questions in the House.

CPD

## A standard reply

**Mr. Campbell-Savours** asked the Secretary of State for the Home Department whether he will make an early announcement of specifications for citizens band radio equipment.

**Mr. Raison:** We hope to make draft specifications available very shortly.

**Mr. Wall** asked the Secretary of State for the Home Department when he expects to be able to publish the specification for citizens band radio sets on 27MHz FM and 930 MHz.

**Mr. Raison:** We hope shortly to announce details of the channels and power limits which will be available and open to consultations with industry on draft equipment specifications.

## How much interference by 27AM

**Mr. Freud** asked the Secretary of State for the Home

Department how many complaints about interference to essential services by citizens band radio, on 27MHz AM he has received in each of the last 12 months for which figures are available.

**Mr. Raison:** Such complaints are received by the Post Office radio interference service which acts as our agents in this matter. In the period from 1 September to 31 December 1980 it received 111 complaints of interference to the radio communications of essential services from the illicit use of citizens band radio operating in the 27MHz band. Since 1st January these statistics have been collected on a monthly basis and the equivalent figures for January and February are 16 and 31 respectively.

## The Draft Specification is released

**Mr. Wall** asked the Secretary of State for the Home Department whether he has yet decided on the precise frequency sub-bands for the legalised citizen band service.

**Mr. Whitelaw:** I have decided to locate the new Citizen Band service in the frequency sub-band 27.6 – 28 MHz in order to minimise the risk of interference of authorised users of 27MHz band. Legalised 27 MHz FM equipment will, like that of most illicit AM equipment at present in use, operate on 40 channel at 10 KHz spacing with an effective radiated power limit of 2 watts. The impact of illicit citizens band on authorised radio service will be kept under close review.

Discussions are taking place with manufacturing industry on the technical specifications for approved citizens band equipment.

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# Speak Out

## The Andover 27 Club want 40 channels 27 AM Now!

*For those who missed this spot last month when Albie Vickers answered the RSGB comment on CB, we will reiterate, Speak Out is for your organisation or club to air its views, stress a point and hopefully gain a response. Because CB is still a highly emotive subject we must stress that as a Magazine the views expressed are not our own. We do not necessarily agree nor disagree. We will simply print your views unbiasedly regardless of whether they are for or against Citizens Band Communications or any of its facets.*

JOH

### Alarm at announcement

We were alarmed at the announcement by Mr. Whitelaw, the Home Secretary, that despite all the representation privately and from commercial sources, that he still intends providing a Citizens Band facility on frequencies that are commercially, financially, and in the World sense, isolationary to the supporters and users of that facility in this Country.

### Government Red Herring

Mr. Whitelaw and Mr. Timothy Raison, M.P., seem determined to continue to be particularly obtuse as far as the requirements of the community are concerned, they both knew, as did the Radio Regulatory Department, that when we campaigned for 27 Mhz for C.B. we were talking about 27 MHz AM, not another unusable frequency on FM, plus that old red herring, 928 MHz.

We feel this choice of 27 FM is just another delaying ploy by the Home Office in collusion with the Old Guard, supporters of Ham Radio, that exclusive, though now probably in the minority, band of people who imagine that being a Radio Operator is some sort of class symbol. We would remind the Home Secretary that those two wavelengths, both AM and FM, have been, and are still being used by the Aero Modelling fraternity in this Country, they originally started out on AM, but through the manufacturers of Radio Equipment in this Country, and from abroad, FM was just added on, no permission was sought or given by the Home Office, and they have used both frequencies since that time with no recriminations from the Home Office to this day.

Yet our request for that particular frequency, has met with the most vicious persecution and we note from the newspapers, who were noticeably reticent before the so called official announcement, have now been mounting a campaign to attempt to show all the worst aspects of C.B., by their usual practice of only telling half the story.

We also note that unlike the French Government's announcement, no statement was made on Licence

Fees or the amount of Channels to be made available, we did, however, note that the Home Office do intend imposing their own brand of censure on the equipment to be used, this we assume will amount to another massive increase in Civil Service employment, which in the light of Public Service cut backs, would not be popular with the Public in general. We would suggest that if testing and certification is required, that the American F.I.A. standards be accepted, and that the established network of Radio and Television dealers and Service Agents be used to give approval to the rigs at present in use, and to administer some sort of Government approved seal, or stamp a number on registered rigs, or to issue same at the Post Office, after all, even the so called illegal equipment has a number stamped on it at Manufacture. We would also expect an amnesty to be made available to all present users of such equipment – continued persecution will serve no purpose other than to increase the Governments unpopularity and in particular the Home Office, who I am sure has quite enough to contend with at this time, without the added aggravation of vast numbers of C.B. supporters refusing to pay fines let alone having to be accommodated in H.M. Prisons.

### AM – The only acceptable option

Lastly, we would point out to all your readers the existence of a letter sent out to all C.B. Clubs by our friends in the C.B.A., they have set out a plan of action which is even now being implemented by every C.B. Club in the Country, we also hope that the salient points they raise will be taken to heart, especially the fact that the T.G.W.U. is negotiating with the European C.B. Federation for a 40 channel "AM" C.B. facility to be made available to international truck drivers to enable them to cross borders without having their rigs confiscated; also that 55 out of 61 Countries use the AM set-up. This we stress again is the only frequency that will meet all the requirements of the public in the U.K. The equipment is available, it is cheap, easy to operate, and it is CB, to say that the British Public is not to be trusted with this facility because of the worst excessives of the American System is to demcan the citizens of this Country, who are coming round to the whole concept of CB in ever increasing numbers. The Government can only do itself harm by continuing to frustrate the wishes of the people, so let's have an end to this controversy, and give us what the Rest of the World already has, a CB facility on 27MHz AM, 40 Channels initially, £10.00 yearly licencing fee and see what a benefit it could be to this Country socially.

Yours sincerely,  
THE ANDOVER 27MHz AM CLUB

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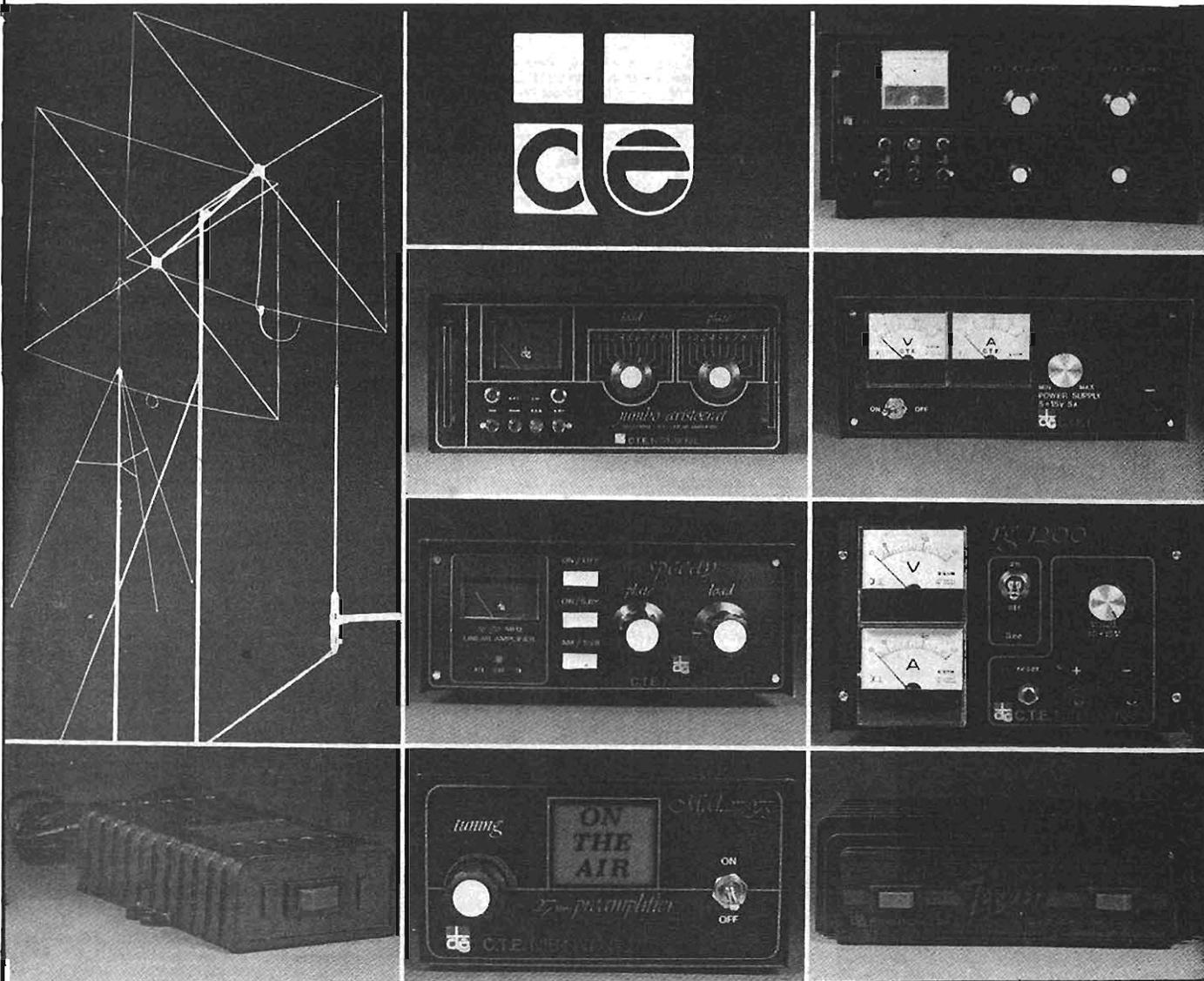


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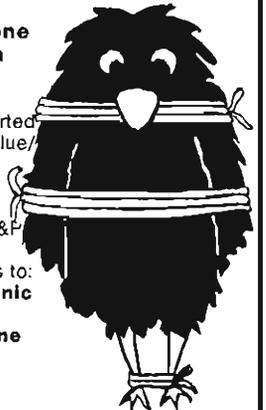
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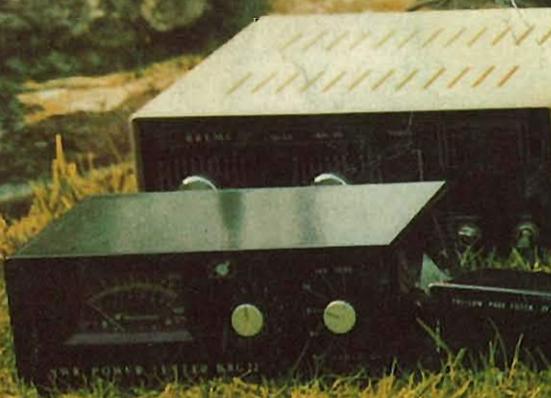
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