

RING
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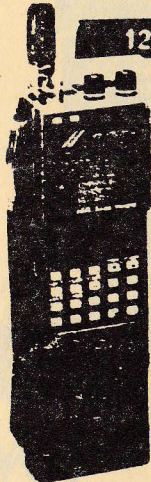
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Amateur P.M.R. Marine



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FNB3A	425MAH NiCd Pack	40.00	KR600RC	£219.00
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LRI-2M	Omnidirectional vertical cone	35.71
LWS-2M	5 element loaded dipole yag	17.31
LWS-2M	8 element loaded dipole yag	21.80
LW10-2M	10 element loaded dipole yag	28.23
LW16-2M	16 element loaded dipole yag	42.45
PBM14-2M	14 element Parabeam	68.00
SKY-2M	Crossed 5 element yag	33.41
SKY-2M	Crossed 8 element yag	43.81
10X-2M	Crossed 10 element yag	53.80

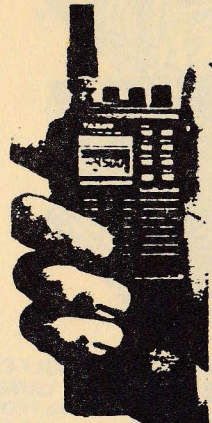


70cms antennas

MBM26-70cm	26 element Multibeam yag	25.70
MBM48-70cm	48 element Multibeam yag	42.64
MBM58-70cm	58 element Multibeam yag	57.90
PBM24-70cm	24 element Parabeam yag	91.41
	12 element ZL special for 2M	75.00
OSRV	Full size 102'	16.71
OSRV	Half size 51'	14.75
+BSCL	2 metres	3.95
+BSCL	70cms	3.98

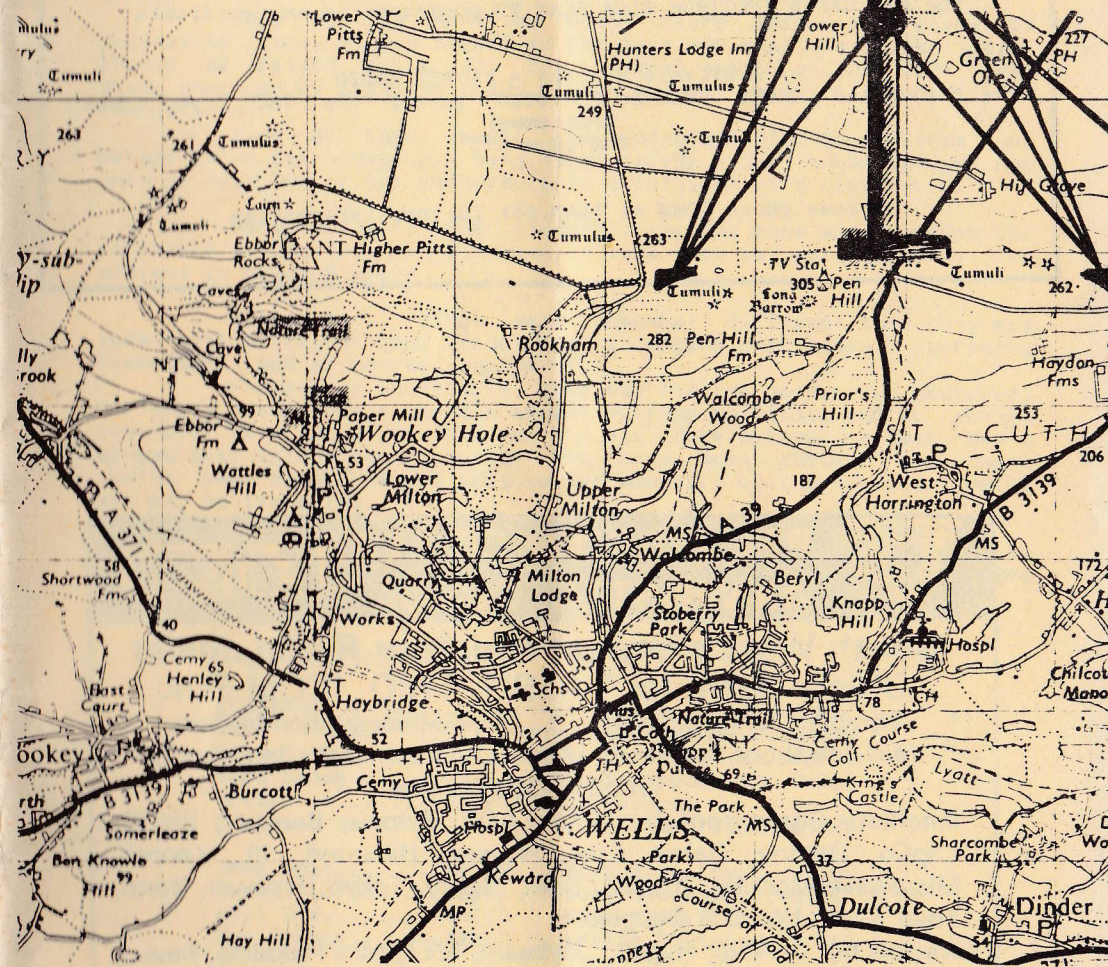
FT23k	Tx/Rx Synthesised 2m (Radio only no battery pack)	223.50
FT73R	Tx/Rx Synthesised 70cms (Radio only no battery pack)	243.50
FBA9	7.2/9V cell case only (6 x AAA) (2W 2m, 1W 70cms)	8.00
FBA10	7.2/9V cell case only (6 x AA) (2.5W 2m, 1.5W 70cms)	8.00
FHB9	7.2V 200MAH Nicad pack (2.5W 2m, 1.5W 70cms)	23.00
FHB10	7.2V 600MAH Nicad pack (2.5W 2m, 2.0W 70cms)	25.50
FHB11	12.0V 600MAH Nicad pack (5.0W 2m, 5.0W 70cms)	42.00
HC27C	Charger mains (FHB9)	11.00
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IC29	Desktop quick charger (FHB9/10/11)	49.00
PA6	Mobile DC Adaptor/Charger (FNB9/10)	14.50
CSC22	Soft carrying case (FBA9/FNB9)	3.00
CSC23	Soft carrying case (FBA10/FNB10)	8.00
CSC24	Soft carrying case (FHB11)	8.00
CSC25	Soft carrying case (FTT4 & FBA10/FNB10)	8.00
CSC26	Soft carrying case (FTT4 & FNB11)	8.00
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FTT4	DTHF Keyboard encoder	31.99
FTB32	Mobile hanging bracket	10.00
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QHT23R	Owners manual for FT23R	2.50
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TST23R	Technical supplement for FT23R	4.00
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NEW
Yaesu
FT23 &
FT73



YOUR NO. 1 STOP FOR HANDIES,
AERIALS, MOBILE EQUIPMENT

MENDIP REPEATER GROUP NEWSLETTER



JUNE 1987

GB3WR

GB3UB

GB3VS

GB3UT

B & J Telecommunications

Prop J.A.Jones G8AZT & J.S.Paton G6RAZ

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M E N D I P
R E P E A T E R
G R O U P

P.O. Box 73
RADSTOCK
Bath
Avon
BA3 3GP

Dear Member,

Welcome to the June 87 Edition of the Mendip Repeater Group Newsletter. Another selection of articles supplied by members of the Group.

Some of you have no doubt heard that as a result of increasing costs, it was agreed at the last AGM that the Subscription should be raised to £3.00 for the year ending on 30th Sept 1988. Those that pay by Standing Order will receive notification of this change soon.

Even at this amount, the Mendip Repeater Group gives much better value for money than many other groups. The subscription can only be kept low if the membership is maintained at a high level.

Remember that new licencees may not know who provides the repeaters or how they are financed. Please pass the word around. The address is printed above.

Years ago, things, were somewhat different than they are today with different band structures, licencing conditions, operating techniques, and of course, equipment.

Change is inevitable, some say for the worse, but whatever, our hobby does carry a certain amount of responsibility and we should remember this when we are on the air. Have a laugh, a joke. Don't always take things too seriously but save some thought for those who've been before us and prospective Amateurs of the future, some of who may be listening.

Sit back and relax while you browse through this copy of your Newsletter and remember that we are always pleased to receive your articles and ideas for publication.

The COMMITTEE

Chairman.....Ivan Rosevear.....G3GKC
Vice Chairman.....John Everingham.....G4TRN
Secretary.....Steve Gardner.....G4PSP
Tech Manager.....Peter Harston.....G4JQP
Treasurer.....Linda Gardner
Computer Services.....Malcolm Stanbridge..G3RHU

John Pearce.....G6GNG
Barry Stevens....G8KKA
Bill Dix.....G4ZEU
Ian Parker.....G8XZD
Icarus Sparry....G8IYW
Paul Beecham....G6PZ
Paul Price.....G4SUH
Adrian Whatmore..G4UVZ

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Rodney
G6LUJ





Peter G4JQP, Ivan G3GKC, and Steve G4PSP at the Bristol Rally.

CHAIRMAN'S COMMENTS

With this issue of the newsletter may I welcome new members to the Mendip Repeater Group and thank existing members for their continued support.

I would also like to thank the Committee for their support. We have an excellent team in the MRG, and you will read of some of the effort that goes on elsewhere in this newsletter. You will probably not be aware of the considerable Committee efforts not documented.

As the Longleat Rally approaches, I, and the rest of the Committee, look forward to an 'eyeball'! This year, look out for a caravan kindly loaned by John G6GNG - no more trying to find us to pay your subs! We will be clearly visible. Let's hope everyone enjoys the Rally.

The membership receipt, in the form of a QSL card, which was a popular feature introduced last year, sees the issue of a new one. Keep last years - a set is going to be a collector's item.

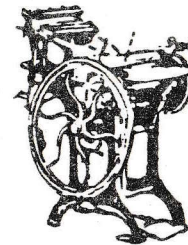
Perhaps I can repeat what has been said so many times by myself and the past Chairman on the question of 'comics, idiots, and not so comical persons' who are heard on our repeaters. Please do not comment! Ignore the 'intruders'. Their satisfaction (if that is their bent) is in hearing comments. So please - no comments - just carry on with your QSO's.

One further plea - the majority of users of GE3WR are NON MEMBERS - A staggering thought isn't it, that most of the users refuse to contribute to the running costs. They will not be reading this, but if you meet them in pubs or clubs perhaps you can persuade them to part with £3.00. Considering the costs of rigs and antennas it must be cheap at the price.

One further comment - please support our advertisers. Their support helps with the issue of this newsletter.

Ivan Rosevear G3GKC Chairman

G4TJB



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NAVY SPECIAL HF ANTENNAS.

MOBILE whips for bands 10,15,20,40, in stock
bands 17,12 80 to order
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By combining 20/40 bands 12,17.30 also are available as well as 20,40. Prices for above and details send Large SAE.

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G5 RV	Full size	£16-99	P&P inclusive
G5 RV	Half size	£15-45	
Morse practice oscillator		£ 6-95	
2 mtr pre amp (receive) built		£ 5-95	
Kit for above (excluding box and pl259s)		£ 3-95	
Headphone speaker splitter		£ 6-95	
QSL Card (photo albums)		£ 5-99 per 3.	
QSL buro envelopes		£ 1-00 per 20.	
Car stickers	Radio Amateurs do it with Frequency		70p
	Radio Amateurs do it on Air		70p

All orders sent within 14 days except during holidays.

TECHNICAL MANAGER'S REPORT

GB3VS - I thought I would start with this repeater for a change to prove that no news is not necessarily good news.

The proposed site change to a location south of Taunton is still with the DTI. Our application for site clearance has been in for nearly two years and, despite regular assurances that 'it should be completed shortly', it appears that we are in no position to believe that the go ahead will be issued soon. Meanwhile GB3VS continues to work happily albeit it quietly from its present site in Bridgwater.

GB3UT - Our television repeater has suffered a setback, I am sorry to report. After continuing to run for nearly a year, it suffered what appears to be P.A. failure during the reconnection of power after electrical work at the site. However, it is still radiating on low power and is detectable 25 kilometres away - not bad going!

GB3UB - After many years in service, we have at last found a fault! But, fear not, it is only the battery used to pull in the relay which switches on after a closedown! I understand the battery was quite old when installed many years ago.

A new one will be purloined and this will allow push button reset rather than screwdriver adjustment. It is a source of some satisfaction, and also a great compliment to our previous Technical Managers, that the PA which had not been adjusted for over three years, yielded only half a watt increase in power output when tweaked up recently. This represents an improvement of only 0.25dB - some stability!

GB3WR - The business end of this continues to function satisfactorily with most reports of deviation changes, frequency instability, insensitivity, power reduction etc. being traced unsurprisingly to dubious equipment at the user end. However, the battery back-up failed to cut out during a power disruption at site giving rise to an over flat standby battery. A new battery changeover circuit is presently being devised and will be implemented accordingly

FUTURE PROJECTS - Letters have been exchanged with the RSGB's Repeater Management Group concerning other areas we may wish to explore. The possibility of a 70cm unit to cover the Nailsea end of the Mendips is being held in abeyance whilst the coverage of GB3SG, the recently appeared South Glamorgan repeater, is evaluated over this side of the water.

Well that's it folks. Please continue to use the repeaters and persuade those who do, but don't yet subscribe to the Mendip Repeater Group, to get out the cheque books.

Peter Harston G4JQP

Technical Manager

OPEN LETTER FROM THE VICE CHAIRMAN

Dear Member,

There are occasions when I am saddened by what I hear from our wondrous box on Pen Hill. I suppose it is due to the apparent anonymity afforded by the microphone and the possession of a callsign, that we forget ourselves. On 27MHz in Bristol of an evening the band is crowded beyond belief and the tension between ill informed operators is very strong, resulting in a very high level of deliberate interference and objectionable, insulting talk.

I hope that we are able to keep ourselves above this level, but I have become aware that some members (and also non members) have been hurt by things that have been said. Perhaps it is because standards are generally so good that the odd slips draw attention to themselves, but we should all be careful to maintain our manners. From a personal point of view I would like to suggest the following guide lines for thought.

- (i) Remember that at all times you are not PLAYING with radio equipment, there is a person at the other end of the system.
- (ii) Acknowledge other users if calling between pips.
- (iii) Be careful about what you say about people not in the contact.
- (iv) Never be rude to anyone who does not know you well enough to realise a wind up is in progress.
- (v) Talk to and welcome strangers.
- (vi) Listen to what is being said.

It would be tedious for me to continue much more but please let us have less of 'the repeater is for mobiles' attitude. If two people need to talk to each other, and need the repeater to do it, then they should not be made to feel guilty about it. Let us all consider our need, though, because very often very little of any substance is said in contacts that last for ages. Oh, and don't ask questions without going back to receive. I sat in my car for 10 minutes while the locals who had misdirected me argued among themselves as to where I was instead of asking me!

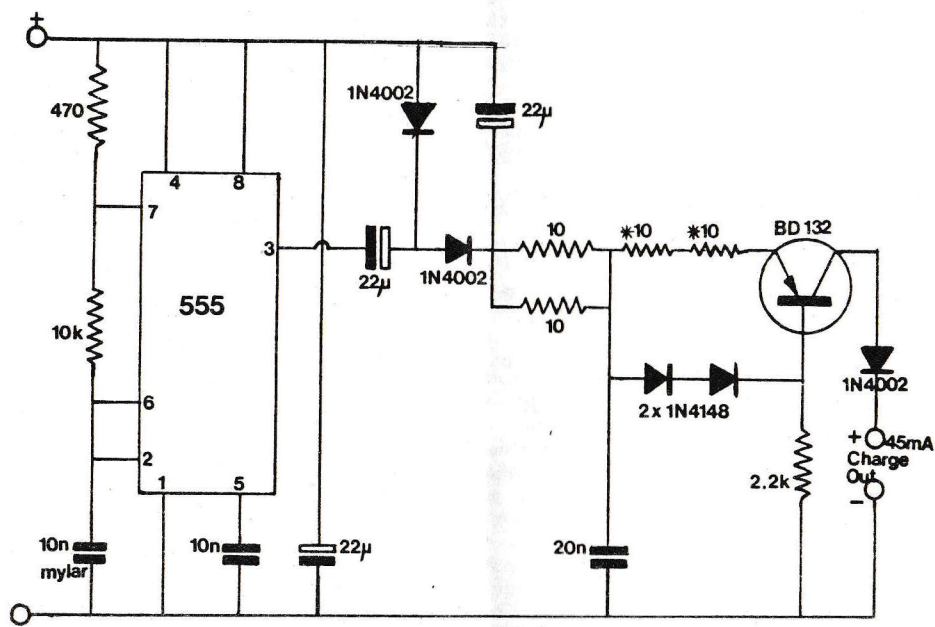
Enough is enough! May your loudspeakers give you solid copy, may your microphones work no less well (and please think before using either!)

73

John Everingham G4TRN

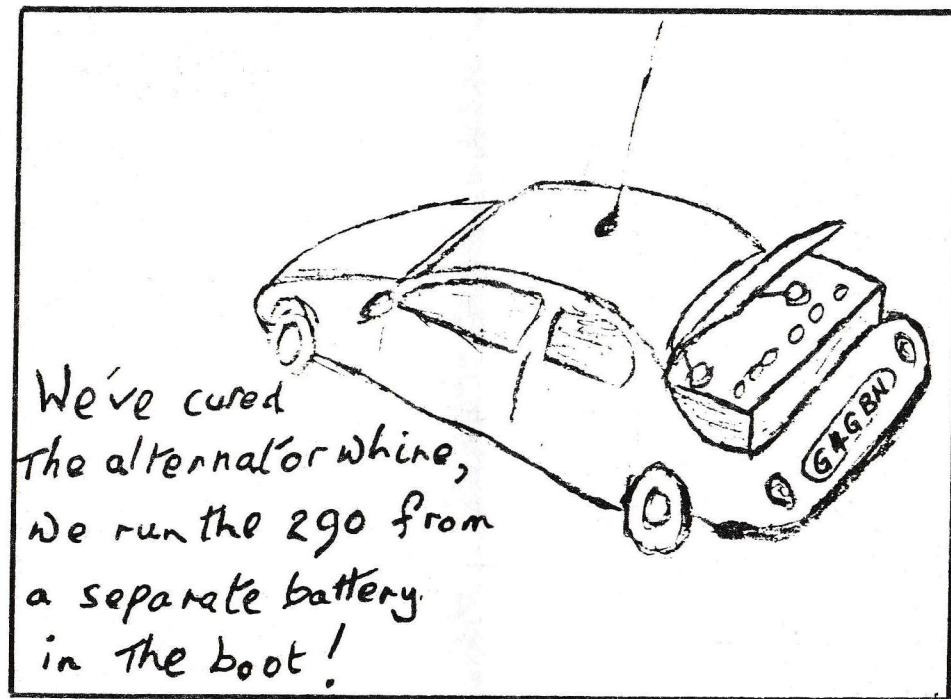
A 12v NiCad Charger

Now that the season for portable operation is here, time is ripe for the construction of this handy circuit which will charge a stack of NiCad cells off a nominal 12v supply. The most common stack is 10 cells which needs in excess of 15v to bring it to the fully charged state, so a car supply is inadequate. This unit will produce 24v from 12v in and 28v from 14v in and is current limited at 45mA. In this form it is ideal for charging the common stack of 10 pen light cells. Those of us who play with Pocketfones will also be able to charge the 18v PF1 and the 15v PF5 batteries, though the starred resistor will have to be increased to reduce the current to about 20mA.



All resistors are 1/4 watt. Polarised capacitors are 35v electrolytic, non polarised capacitors are ceramic except for the one mylar (10nF marked on circuit) The transistor is not critical - no heat sink needed if similar to BD132 (NB PNP)

John Everingham G4TRN



LONGLEAT MOBILE RALLY

Sunday 28th JUNE 1987

We are planning to take a caravan to Longleat this year so don't spend all day searching the tents for us.

Members of the Committee will be in attendance to talk to you and relieve you of your hard earned cash.

We will be accepting subscriptions of £3.00 for the year ending 30th September 1988.

Come to our caravan and meet us.

The Shack
Charred park
Norsomer Midton

Dear Sir,

Please would you include the following advert in your next newsletter.

FOR SALE: Packet Radio TNC unit
Unused - cost £200 - Offers please.

Amanda won £500 on one of her Premium Bonds and she offered half to me to get something for the shack. I had read a lot in the magazines about Packet Radio, and all the new repeaters, so I thought I would have a go.

I sent off my order and, a few days later, the TNC unit arrived. Having read the instructions it became obvious that I needed a micro computer to operate it. I wish I had discovered that earlier.

Only a few weeks before, I had missed out on a demonstration. I heard on WR that someone was giving a talk on Packet Radio at the George at Norton St Philip, but Amanda wouldn't allow me to go out on that Tuesday.

Anyway, when I told her that I also needed a computer, I was most surprised when she agreed. "OK, I'll spend the rest of my winnings on a computer, provided I can use it as well." She wanted to learn about word processing.

So, off we went to look round the computer shops, and returned with a brand new computer - a special bargain pack, complete with joystick and software (6 games). Just as we were unpacking it, our young nephew, Richard, arrived. He helped connect everything together and loaded the first game. (clever little @*£!)

Amanda is getting on very well with the word processing, and that little nuisance, Richard, calls round every day after school.

When I tried to take the computer to the shack Amanda shouted "Where do think you're going with that!" "I want to use it to send a message to my mate Limply Stoke." I replied meekly. "Why don't you just talk to him, like you usually do? It would be much quicker, especially with your typing speed!"

How can one argue against such logic? The computer stayed indoors - Amanda does her typing, and Richard plays the games. I'm not allowed to touch it now. So, as I cannot use it, I must sell the TNC unit. I'll probably get a rotator for my Slim Jim instead.

Yours Sincerely

Willie Werkit G2SFA

THE FOLLOWING ARE MEMBERS OF THE GROUP (18TH MAY 1987)

C30AKA	G0APK	G0AWX	G0AZE	G0AZQ	G0BFH	G0BQD	G0CAM	G0CCA
G0CCO	G0CFF	G0CFM	G0CNA	G0COM	G0CPG	G0CYD	G0DBK	G0DUU
G0EGC	G0ENF	G0EZO	G0FAA	G0FFY	G0FGF	G0FGN	G0GJB	G1AAH
G1ABT	G1AJC	G1ARZ	G1AVB	G1BKL	G1BVG	G1BYE	G1DBF	G1DCG
G1DCZ	G1DNG	G1FGK	G1GCO	G1HFJ	G1HFP	G1HLP	G1HSF	G1ICU
G1IHL	G1IHT	G1IVM	G1JAM	G1JKO	G1JMK	G1JOR	G1JPK	G1JRM
G1KEU	G1KFC	G1KTJ	G1KVD	G1LNU	G1LXA	G1LZN	G1MDC	G1MIV
G1MMS	G1MSI	G1NGQ	G1NMW	G1NTK	G1NUA	G1NZJ	G1OKD	G1OKU
G1OOB	G1OOH	G1OPW	G1ORN	G1OTY	G1PBX	G1PJU	G1PLM	G1PNF
G1PVB	G1PVU	G1PHU	G1RLC	G1RSF	G1SGK	G1STL	G1TEU	G1THU
G1UAA	G1UEL	G1UKB	G1ULZ	G1UQH	G1USW	G1VQG	G1VSZ	G1VWQ
G1VZO	G1WCH	G1WQR	G1WQV	G1XGJ	G1XGJ	G2BAR	G2BQY	G2BRR
G3AGT	G3BPM	G3CQE	G3DHH	G3ESO	G3EWF	G3GKA	G3GKC	G3IBK
G3IJU	G3IUV	G3JAR	G3JEP	G3KVR	G3LJD	G3LJW	G3MIZ	G3NVA
G3NET	G3NOF	G3NXU	G3OSH	G3PYF	G3RHU	G3SJI	G3SPU	G3SXY
G3TCD	G3TFM	G3TKF	G3TWO	G3UGR	G3UPV	G3UTO	G3UUR	G3VEH
G3VJJ	G3VQD	G3VBA	G3YBW	G3XGY	G3XIT	G3XKR	G3XWK	G3YBY
G3YHV	G3YNI	G3YPL	G3ZKI	G3ZNV	G3ZUQ	G3ZWL	G4ATP	G4AUN
G4AVJ	G4AYB	G4AYD	G4BSF	G4BYJ	G4CBS	G4CJZ	G4DGU	G4DIE
G4DKS	G4ETN	G4EVI	G4EXQ	G4FSL	G4GBN	G4GBX	G4GTD	G4GUG
G4GVM	G4HHL	G4HWD	G4JBG	G4JBW	G4JQD	G4JQP	G4JSN	G4KJP
G4KNE	G4KPT	G4LAF	G4LAW	G4LJZ	G4LYG	G4LYP	G4MQX	G4MYR
G4NCJ	G4NFO	G4NUJ	G4NXG	G4OFH	G4OJA	G4OJH	G4OMG	G4ONS
G4OTJ	G4OWH	G4OXR	G4OXY	G4OYY	G4OZH	G4PDG	G4PHZ	G4PLY
G4PSP	G4PYN	G4RIC	G4RLK	G4RRI	G4RSH	G4RZY	G4SCD	G4SFS
G4SJJ	G4SUH	G4SZB	G4SZS	G4TAH	G4TBO	G4TIA	G4TIX	G4TJB
G4TLL	G4TLP	G4TRN	G4TXW	G4UEO	G4UGO	G4UGT	G4UHN	G4UIU
G4UKF	G4ULV	G4USO	G4UVZ	G4VBO	G4VEH	G4VFM	G4VGV	G4VVS
G4WGE	G4WJY	G4WLB	G4WMV	G4WPY	G4WPZ	G4WRW	G4WTA	G4WUB
G4WXD	G4XKK	G4XLY	G4XWE	G4XYC	G4YJH	G4YOC	G4YOC	G4YQG
G4YTH	G4YTP	G4YZR	G4ZBL	G4ZBQ	G4ZDR	G4ZEU	G4ZLF	G4ZMW
G4ZNK	G4ZOG	G4ZQF	G4ZXE	G5RQ	G6AEC	G6AFL	G6ANI	G6ASI
G6ASO	G6ASP	G6AWT	G6BDE	G6BMF	G6EDJ	G6EIJ	G6EMB	G6ENM
G6ETL	G6FBR	G6GBH	G6GNG	G6GVH	G6GWF	G6HEC	G6HIQ	G6HKT
G6HMV	G6HNN	G6HOR	G6HTZ	G6HUO	G6HYU	G6IAY	G6IUQ	G6IVU
G6IZE	G6JGR	G6JNB	G6JTT	G6KPD	G6KTW	G6LRQ	G6MBJ	G6MRJ
G6MXL	G6OWL	G6PEN	G6PJT	G6POW	G6PPU	G6PZ	G6RAZ	G6RKO
G6RQB	G6SV	G6TAH	G6TAL	G6TKR	G6TWA	G6UAC	G6UTK	G6WIM
G6WLX	G6WTX	G6WZA	G6WZS	G6XFC	G6YCG	G6ZOD	G6ZPG	G6ARH
G8BIR	G8BMR	G8CPF	G8DBP	G8DKC	G8DRK	G8FAS	G8FC	G8FKC
G8FTV	G8GFZ	G8HNM	G8HVV	G8IKR	G8IOJ	G8IWW	G8IZZ	G8KBQ
G8KKA	G8KNN	G8LGC	G8LRB	G8MYN	G8NMU	G8NNU	G8NQO	G8OEU
G8OQG	G8OTA	G8OTH	G8OUG	G8PVG	G8PVI	G8SPC	G8SRH	G8SUW
G8TIH	G8TOF	G8VDF	G8VGI	G8VOE	G8VPG	G8WKK	G8WKL	G8WLW
G8WRC	G8XTZ	G8XYS	G8XZD	G8YML	G8YMM	G8YPV	G8YWQ	G8ZOE
G8ZRN	G8ZSP	G8ZYD	G8ZYD	G8ZYD	G8ZYD	G8ZYD	G8ZYD	G8ZYD
GW1LWC	GW1OPT	GW1RGO	GW1RSS	GW1UST	GW2FWD	GW3JUV	GW3LAD	GW3TSH
GW4HA	GW4ISF	GW4KYM	GW4NLE	GW4POA	GW4TUL	GW4UXK	GW4WQC	GW4XKE
GW6ADM	GW6BWX	GW6CUR	GW6JBP	GW6MBU	GW6MOB	GW6MWN	GW6NQU	GW6UXK
GW6VLA	GW6ZHM	GW8DGM	GW8EPA	GW8PTS	GW8REV			

MR R.WARE
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G0CCB

A SHORT HISTORY LESSON

The sequence of issuing callsigns must seem rather odd to some people. G1*** calls have been issued after G2, G3, G4, G5, G6, and G8. G8** has a class A licence whilst G8*** has a class B licence.

The following, whilst not explaining the reasons behind the events, may throw some light on the subject.

Prior to the Second World War there were two types of licence. The full licence and an artificial aerial licence. The full licences had callsigns with 2 letter suffixes - G2**, G3**, G4**, G5**, G6** and G8**. These were not issued in numerical order and no calls containing the letter E were issued.

The artificial aerial licences had calls beginning with the number 2 followed by three letters eg 2XYZ. They had no G prefix and had to 'operate' into an artificial aerial. In other words they were not permitted to radiate.

There was no RAE, so the would be operators had to convince the authorities that they were suitably qualified to be issued with a full licence. Operators had to make 'test' calls as CQ calls were not allowed. Calling 'test' these days would probably initiate a reply of "5 and 9" followed by a serial number!

During the hostilities all licences and equipment were withdrawn. After the war, when licences were re-issued, the holders of AA licences were issued with a full licence. They kept their previous call, but added the G prefix ie 2XYZ would have become G2XYZ. The two letter suffix calls remained as before, and a new series was started with G3 followed by three letters - G3***. For about 20 years there was basically only one class of licence, although a separate licence was necessary for mobile operation. G3*** was followed by G4*** then G0***

In 1964 the class B licence was introduced. Existing licence holders were issued with class A licences. The class B licence enabled those people who did not wish to take the morse test to operate on 432 MHz and higher frequencies. It was sometime before class B licencees were permitted to use the 2 metre band. Two series of class B calls were issued at this time. These were G6 and G8 followed by 3 letters. The G6 series was for Amateur television - the full call being G6***/T. Existing class A stations using TV had to get a licence for Television and another callsign. This caused some problems as many operators had spent considerable amounts of money on test cards, captions, slides etc using their old callsign /T ie G3***/T. Eventually the special TV calls were withdrawn and class A stations reverted to their old callsigns. No more G6*** calls were issued until the G8*** series had been completed. G6*** was followed by G1*** and G7*** will appear soon.

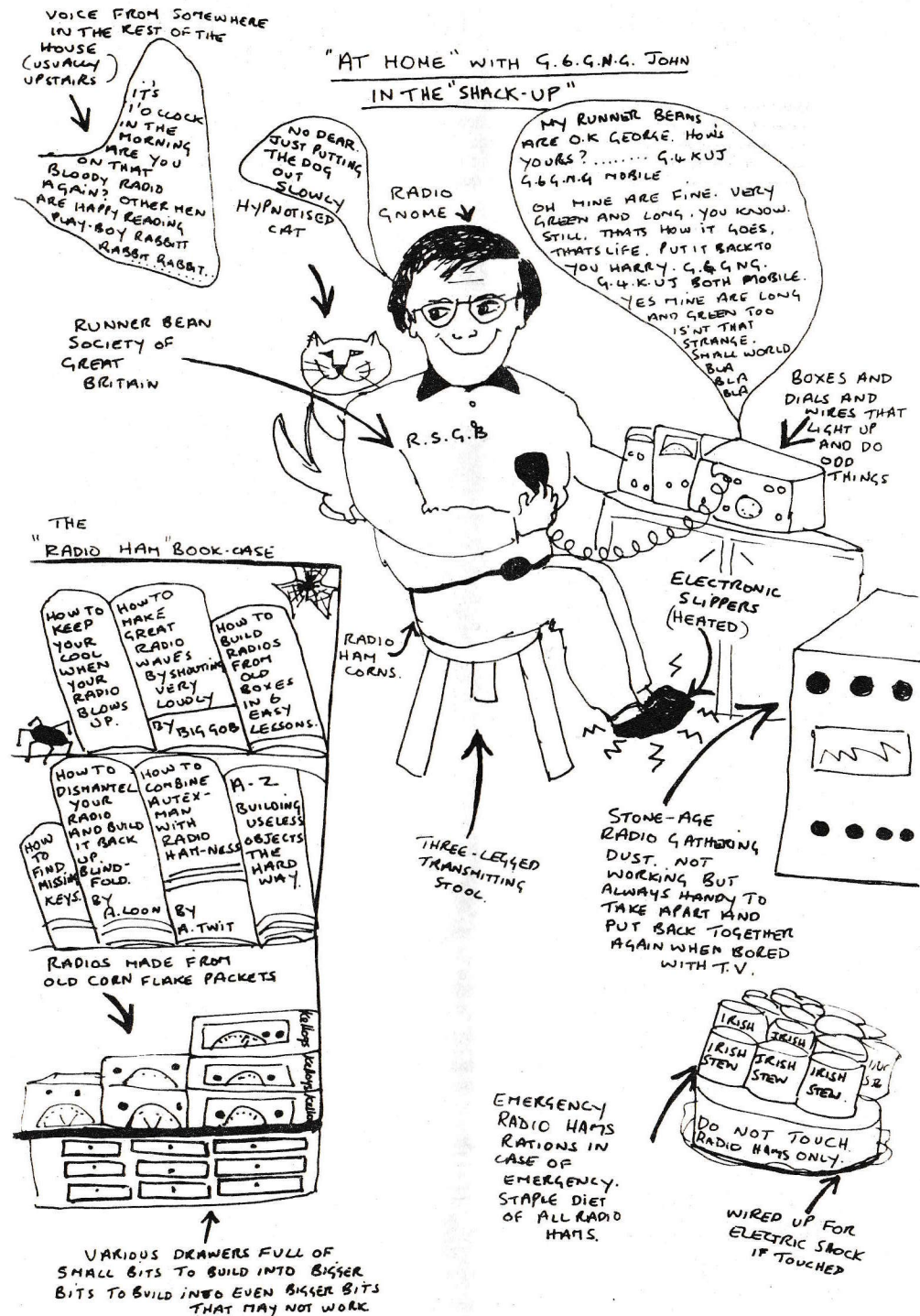
G5*** calls were issued for reciprocal licences. These have now been replaced by the operator's home call prefixed by G*/ eg G4/W9ZZZ

Class A - G2** G3** G4** G5** G6** G8** G2*** G3*** G4*** G0***

Class B - G8** G6*** G1*** G7***

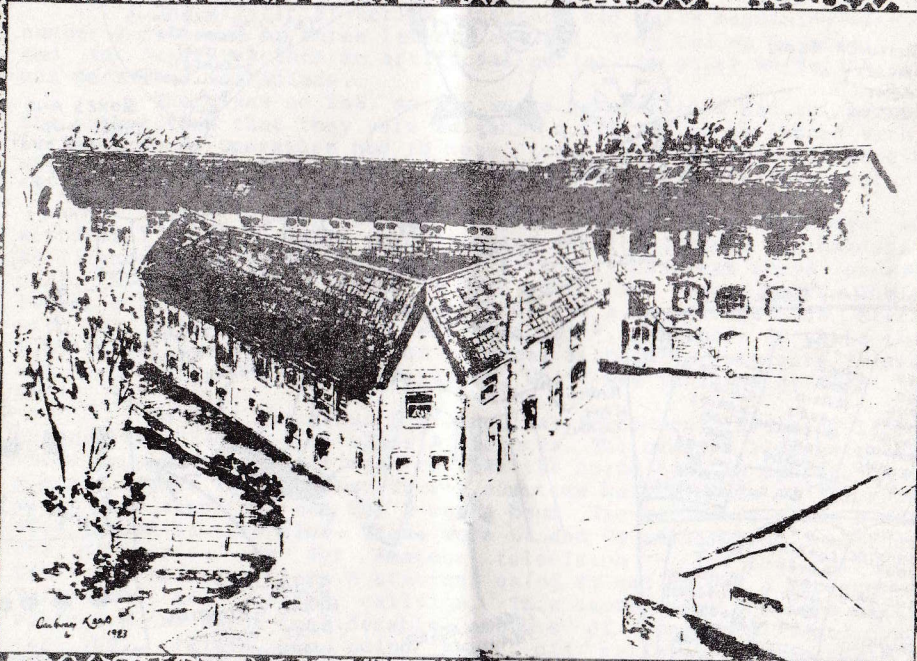
GB3** are Repeaters eg GB3WR GB3*** are Beacons eg GB3VHF Some callsigns have been re-issued to a relative of the original licensee or a Radio Club with which they were associated.

No doubt some of you could add to or clarify some of the above. The newsletter would welcome your comments. Malcolm Stanbridge G3RHU



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Trio TH41E + bits.....£175
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Pye PF3UH.....£50
Pye MF5FM Europa.....£70
Pye MF5U UHF Europa.....£70
Pye PF2FM 4m.....£30
Akai Video Camera/Recorder.£250
10' Aluminium Patio Doors..£300
Efel Kamina Woodburner.....£180
Sony SL8080 Video.....£85
Folding Bike.....£30

G4JQP/G8FKC 0749 840468

PROJECTS FOR THE FUTURE

As a result of suggestions received, the Committee would like your vote on the following

Would you like

A. A Packet Repeater

B. A 70cm FM Repeater

Callsign.....Name.....

Address.....

Please return to
P.O. Box 73, Radstock, Bath, Avon BA3 3GP

Newcomers to Repeater operation often ask us how to access our Repeaters.

The following notes apply to all Mendip Repeater Group FM repeaters.

The repeater requires a 1750 Hz tone for half a second to open it up. However it will not remain on unless the tone is followed by a few seconds of audio eg "This is G**** listening through GB3WR"

Once accessed and latched GB3WR will then allow 90 seconds of operation before it times out. When the 90 seconds has elapsed, through audio will be replaced by a series of pips for a short while and then the through audio will be reinstated.

When the input signal is removed, GB3WR will send two pips, after which the second station may start transmitting for a further 90 seconds. Stations wishing to break in may do so after the first pip.

If the power has failed GB3WR will switch to a standby supply. This can be detected by the fact that the frequency of the second pip will be changed.

Other repeaters may send a morse code character rather than a pip, and the time out period may vary.

Our UHF Repeaters GB3UB and GB3VS have no time out period.

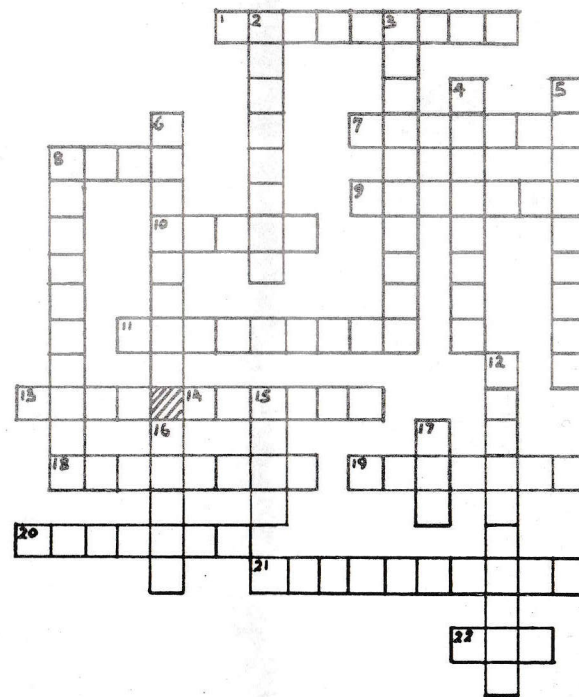
If your deviation is too great for our repeaters a pip will be transmitted in place of your audio.

Possible reasons for failing to access the repeater.

Tone burst off frequency or duration too short.

Deviation of toneburst or audio too low or too high.

Duration of audio following toneburst too short.



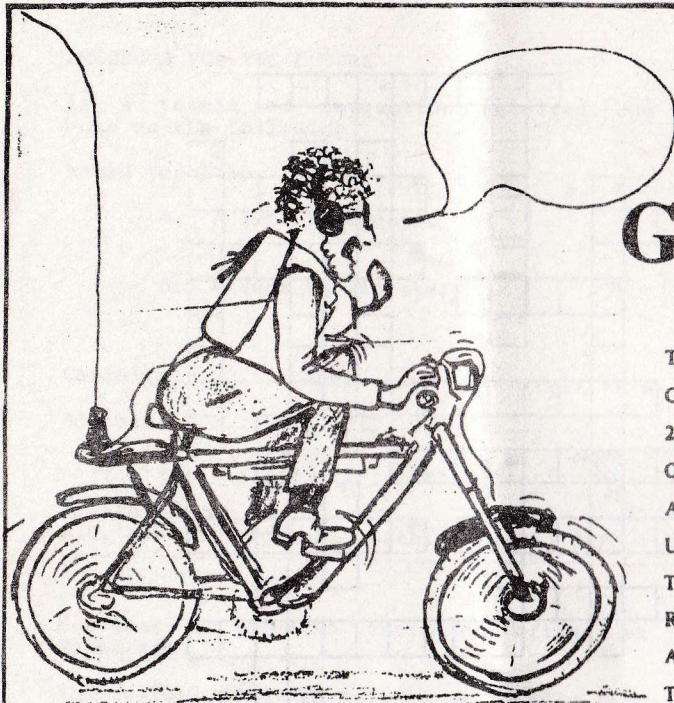
CLUES

ACROSS

1. Components. eg in the form of carbon (9)
7. Aerial (7)
8. Micro ---- (4)
9. Needed to operate a radio station in Amateur Radio (7)
10. Piece of equipment used by operator (5)
11. Allows electric currents to move from A to B (9)
13. Feeder (4)
14. Operating whilst travelling
18. Type of frequency (above and below) (8)
19. Shack (7)
20. Quartz (7)
21. Voltage amplifier circuit loaded with a tuned circuit (10)
22. Operator's entry book (3)

DOWN

2. Form of energy (8)
3. Silicon wafer (10)
4. WR (8)
5. Transponder (9)
6. The licensee
8. A component which stores electric charge (10)
12. Core is made up from this + reduces power loss (10)
15. Group of frequencies (4)
16. Hz (5)
17. Exam for licence (3)



GW1 LOR/P

TO RADIO..... G B 3 W R
 Confirming Our QSO on 145.600 MHz
 2xSSB/CW/AM/FM
 On EVERY DAY 19 87
 At ALL HOURS GMT/
 Ur Sigs RST 59+
 Transceiver BLOODY GOOD
 Rmks PLEASE FILL IN BUBBLE
 Ant PEN HILLS BIG STICK
 TNX FB QSO CU AGN PSE QSL TNX
 Op.....

SEND ENTRIES TO PDRX 73

Answer to the crossword on page 15

- | | | |
|----------------|--|----------------|
| ACROSS | | DOWN |
| 1. Resistors | | 2. Electric |
| 7. Antenna | | 3. Transistor |
| 8. Chip | | 4. Repeater |
| 9. Licence | | 5. Satellite |
| 10. Radio | | 6. Operator |
| 11. Conductor | | 8. Capacitors |
| 13. Coax | | 12. Lamination |
| 14. Mobile | | 15. Band |
| 18. Sideband | | 16. Hertz |
| 19. Station | | 17. RAE |
| 20. Crystal | | |
| 21. Oscillator | | |
| 22. Log | | |

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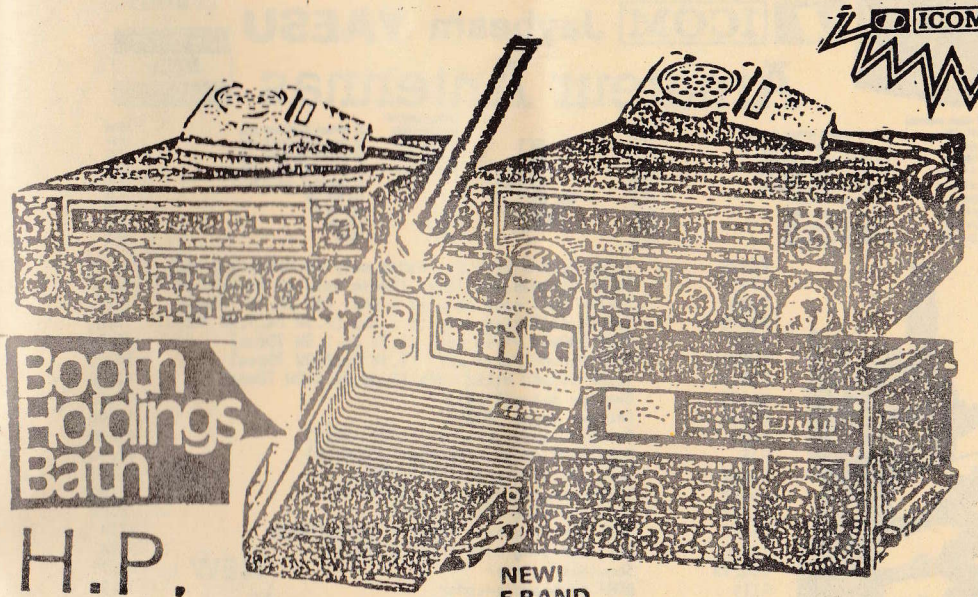
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