



**MERCURY**

**THE JOURNAL  
OF THE  
ROYAL SIGNALS  
AMATEUR RADIO SOCIETY**

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SPRING 1969

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1" Ordnance Sheet 179 GR921091

SPRING 1969

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## EDITORIAL

Our hobby has lost one of its mainstays with the passing on last month of G6CL, John Clarricoats. I make no excuse for taking up Society space with this as the debt owed by British amateurs to John is immeasurable. For many, many years as General Secretary of the R.S.G.B., G6CL strove for the betterment and recognition of the British amateur and our present position is due mainly to his good work.

The Council has agreed to present a suitably engraved plaque to the Radio Society of Great Britain. It is hoped that it will hang in the Library of the new RSGB HQ in Doughty Street. The plaque will be presented to G2YS (672), R.S.G.B. President, by our own President, supported by G3ONU, in the immediate future. This will also be G3ONU's last official function for the Society as Des is posted to ZC4 in the Summer. Thank you for all your help Des. Iain Scott, G3SYW, will be taking over from 1st May. Welcome to the Council Iain - may all your Society problems be little ones! Incidentally QTU? - or shouldn't I ask!!

Would members please note the various changes, QTH and designation of Council members - all details opposite.

Some of our keener award hunters will be interested to know that G2YS will be active on all bands between 13 - 19th April with a special QSL card in a " Meet the R.S.G.B. President " campaign.

The AGM this year will be held on Saturday 4th October in conjunction with the R.S.G.B. Communication Exhibition again - fuller details next edition.

The RSARS/ARMS Rally is making progress and a map at the rear of this edition will show you how to find G4RS, in conjunction with any A.A. handbook. That's August 24th, come rain or shine. Again full details next edition.

Don't forget the Annual Reunion over 28/29th June - GB3RCS will be activated from Catterick but it does not count for the Award Scheme.

Having mentioned the Award Scheme - two small alterations have been made to the rules by the Council. Would all those interested carefully check Rules 10 and 20. With these changes it is prudent to comment that most bands are segregated for different modes of operation and CW is invariably in the lower section of each band. This is a gentlemen's agreement amongst the majority of countries and as such should be supported by all members, particularly as our Rule 2(m) binds us as an affiliated Society of the R.S.G.B. Deliberate CW operation at the top end of 80 metres is quite unnecessary.

On a sweeter note, congratulations to 5N2AAF (139) who was the winner of the Overseas section of the R.S.G.B. 10 metre contest last October.

Finally to all of you who have written to me during my spell in the Editorial seat, thank you for your support and encouragement.

To you Jack - the very best of luck!

73 & VA

De G3EKL.

### SCU3 AGONY COLUMN

My comments about such an eminent gathering of amateurs has aroused quite a wealth of correspondence and it seems the best way to one and all to answer it in a separate section of it's own.

G2AUA (502) writes to tell me that he has counted at least thirty of his old mates in our midst and carries on to say that both he and G2DPQ (549) are very keen to get in touch once again with G4PX (489), as it is many years since they all three slept in adjoining beds in Hut 21a. There was also a mad Scotsman somewhere in the dim and distant past who was last seen when celebrating demob in a pub in Villiers Street in London, one GM3AWF (102).

GM8SQ, (500) asks for his best wishes and regards to be extended to some of his old mates and names G8VG, G4DR, G5FG, G3IV and others, whilst Stewart Owen, GW3QN (542) writes to say that although virtually inactive he enjoys reading of current events in the "Mercury" and particularly of the "mysterious SCU3" - yes, yet another of them that I have been able to pin down!

Then a letter from G8NY (486) sends his regards to all RSARS members especially to those who were SCU lads - that gives me a clue that the "3" must have been the third such euphemistic mob!! Les goes on to say that the only definition he can bring to mind is "an organisation to enable the radio amateur to continue his hobby in war". The opening paragraph of this particular letter read, "Believe me, there are many strange stories that could be related in connection with the lads of the SCUs." Curiouser and curiouser - when is the ban to be taken off wartime exploits!!?

Gerry Openshaw, G2BTO (374) asked me if I had counted the number of SCU lads in the Society. Actually Gerry I hadn't but had made an intelligent (?) guess that any members introduced by Bill Windle would have some connection. You go on to say that you are still looking after your old friends, as for many years now you have been back in the GPO as a Radio Investigation Officer in the Blackburn Telephone Manager's Office. You also comment about an amusing case you had to deal with that interested Jack DeManio (I did in fact laugh at that same programme Gerry) when a wireless stopped because the lavatory chain was pulled!! Quite honestly, some of the programme content we get doled out with could well go down the pan!! However old man, very nice to hear from you and I'm quite sure that even though you represent "the Law" the many amateurs within your parish have a good friend in "the Law". Almost forgot, your number was 2600686.

G4LO (499) sends me a cheery letter even though it was written on his first day downstairs after a nasty bout of bronchitis. '4LO doesn't offer me much really, but says that as I'm still stuck with the thing, that he was one of the tribe like hosts of others but is not saying a word except, like Bill Windle, to make funny noises!! '4LO asks that he be remembered to any of the lads who may recall him and says that despite his age he still thoroughly enjoys the hobby, though it is CW only unless "Ernie" hits the jackpot!

Then comes a small note from Syd Smith (349) who is still carrying on the good work as BRS 18612. Syd calls himself one of the "Diggers Riggers" engaged in aerial erection work with the same gang and says that the various comments over the last few "Mercurys" has brought back many happy memories. Same goes for Joe Cropper, G3BY who calls it "infiltration".

And then at the bottom of the list, but by no means the last, comes the Old Man himself, G8VG. Bill reprimands me far not knowing about the "Circus" but has promised to fill me in the next time I QSY over to Dartford for a cup of coffee (nothing stronger!!). I'm looking forward to that Bill and take this opportunity to thank you for your energetic canvassing for the Society, once again as without a doubt 25% of our members have been introduced to RSARS through your good offices and I feel pretty sure that the majority of them were SCU lads!!

The Editor.

### FROM YOUR HQ STATION

The havoc mentioned in the last HQ report has hit us and Les, G3VYZ, left Blandford at the end of January. He has called a few times since but finally QSYed for Catterick at the end of March to attend a six-month course. Doubtless he'll be heard either over G3CIO or possibly with his own call whilst up North. Thank you most sincerely Les for your help over the thirty months you were associated with the HQ station - I know that your accent will be missed by many members.

Who has replaced Les? A good question. Physically Peter Dowdall, (590) who keeps the station in order (and, the Editor) looks after the QSL side and makes an excellent cup of coffee! Unfortunately Pete is arguing with the GPO - he thinks he can do 12 wpm, the authorities don't!! Also helping here is Dave Hirst (425), ex operator at ZB2A - he has the morse under his belt but no RAE!! All rather difficult as it means that neither can operate although they are both as keen as mustard. So the bulk of the HQ activity is being done by Jack (G3DPS) and yours truly (G3EKL) as Peter (G3PNM) has taken himself an XYL and is QRT for an indefinite period whilst Tony, G3UNC (459) who joined us from RMA Sandhurst last December has already moved on to DL5 land. A great character this Tony, an irrepressible smile and mad on operating, either 'fone or CW. I'm sure he'll soon be radiating with a DL5 call.

Another donation from Corps Funds has enabled the HQ station to go QRO to the legal maximum by the addition of an SB 200 and also the split frequency facility offered by the use of an SB 640 LMO. The station now looks extremely plush and is proving very versatile. Both of the new items were assembled "off the premises" by G3DPS.

Other visitors during the past quarter included Tom Gates (310) who spent a pleasant afternoon here and GM3VIO (453) who came to recuperate after a heavy T & AVR dinner night and found the audio output of the SB 101 rather painful!! Also John Irwin (427), fresh from VP2VW, who managed a couple of evenings before moving out of G on exercise again and Les Kinch, G3XEE (405) who called one evening very late and caused the editor some considerable heartburn (self-inflicted wounds are still classed as malingering, I didn't dare go near the MO for commiseration!). Last but not least was Merv Foster (315) who also operates ZB2A and who kindly called during a flying visit and has since returned to the Rock for a further spell.

Thank you, to you all for dropping in and should any other member be in the area, the doors are always open each afternoon, Monday to Friday, Tuesday and Thursday evenings and of course on "Activity Sunday".

00000-----0000

### RSARS QSL BUREAU

A QSL Bureau for use BETWEEN RSARS members only is available.

Any member wishing to clear QSL cards to other member stations, please despatch cards in bulk to G3HSE.

Any member wishing to collect cards from the bureau should send SAE's of sufficient size and with sufficient postage thereon to G3HSE.

Please put on the reverse of the envelope your callsign, membership number and the minimum number of cards to be despatched (i.e. one or more).

A list of unclaimed cards will be published in each edition of "Mercury".

Address for the Bureau, and any enquiries (with SAE) is:

RSARS QSL Bureau,  
70, Brocklehurst Street,  
New Cross,  
LONDON, S.E. 14.

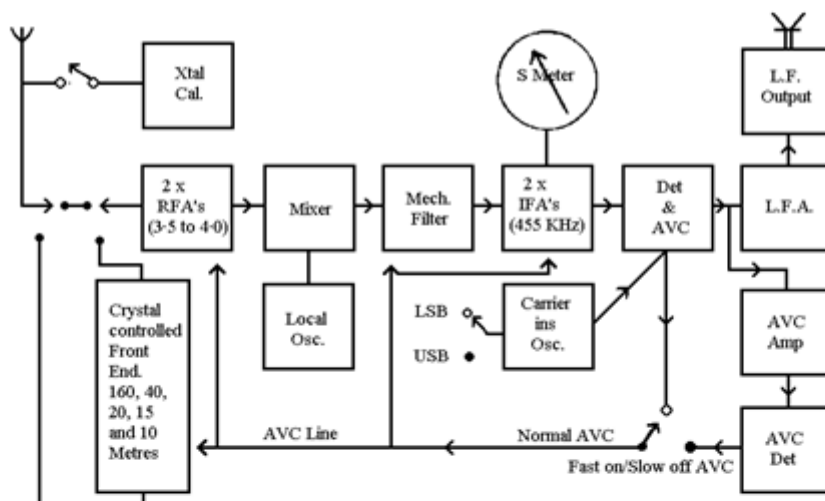
### COMPLETE RE-BUILD OF HRO - PART III

by  
G3JXL (259)

It will be necessary to read the following article in conjunction with the January '69 "Mercury" to hand as reference will be made to this instead of repeating the description of circuits which are common to both the "modification a" and the "rebuild b". This will become clear, as when reference is made to the previous article the relevant page number will be given.

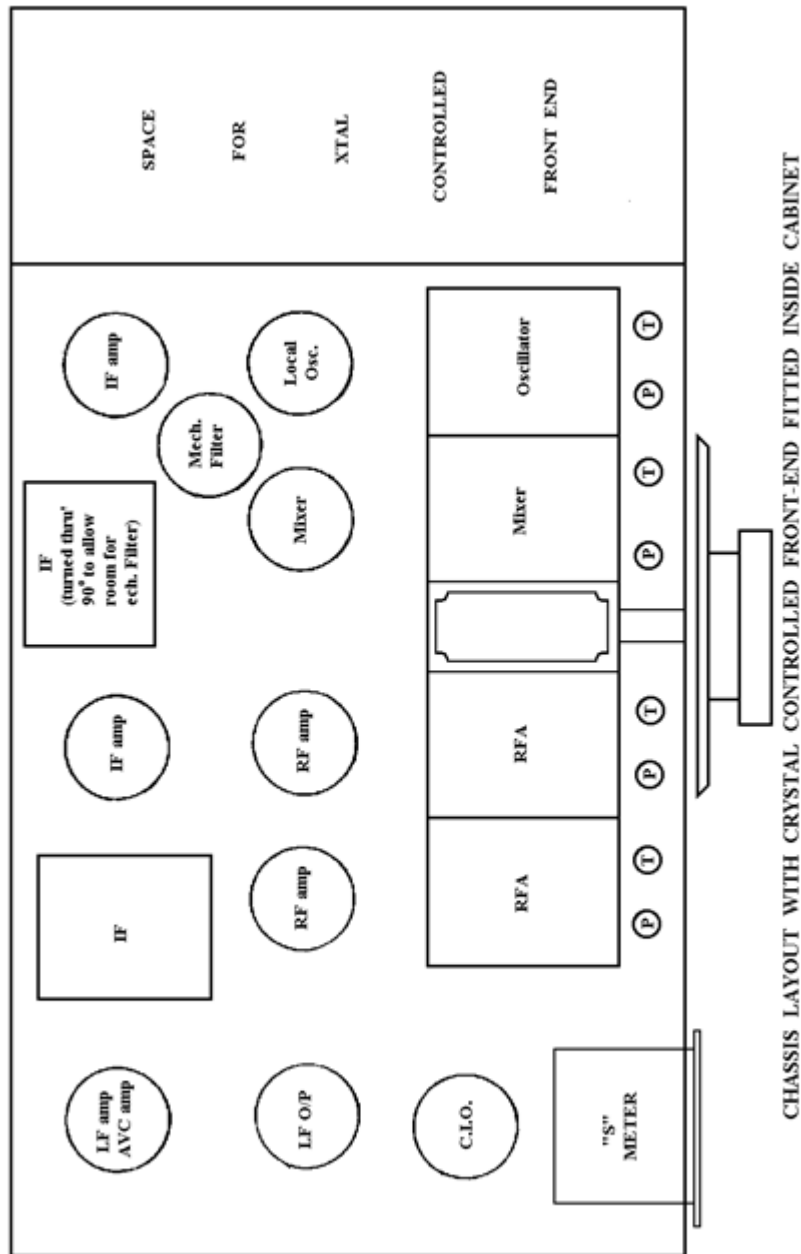
At the request of the Editor the rebuild will be in two parts, 1 - the tuneable IF, and 2 - the xtal-controlled front-end. For some reason not clear to the writer your Editor fights shy of more than forty pages of the writer's handwriting at one sitting!! (Members should see it -Ed!). However, the tuneable IF is a complete receiver on 80 metres so the results of the reader's work may be assessed on one of the amateur bands. It may even be that the reader has ideas of his own on the rebuild and if he is in possession of all the bandspread coils for the HRO, might prefer to keep to a single superhet and not bother with the front end. For those who are interested, the xtal front end will be described in the next issue along with an assessment by a fellow amateur who is at present using it "live".

BLOCK DIAGRAM OF COMPLETE RECEIVER



In the two versions made, the following alternative valve line-ups were used. The choice is left to the reader. No difference at all in performance could be noted. If you have the octals to hand then use them - they are NOT inferior to modern B7 or B9 valves. The more modern types were tried as even they are available at low surplus prices and some junk boxes are getting rather short of octals.

If using either octal or B9G valves, blanks must be made in 18 SWG aluminium to cover the large holes left in the chassis from where the UX valve holders were removed. Dismantle one of the paxolin UX valve holders (remove the metal tags) and use it as a template for making the aluminium blanks. If using an octal valve holder an octal size hole must be cut in the blank, for B7G and B9G the appropriate size hole, using an "Eclipse" or similar cutter.





<u>Valve Role</u>	<u>Octal Base</u>	<u>B7/B9 Series</u>
RFA (3.5 to 4.0 Mhz)	6SK7	EF 92
RFA (3.5 to 4.0 Mhz)	6SK7	EF 92
Mixer	ECC85(No octal)	ECC 85
Oscillator and CIO	6J5	6C4
IFA (455 Khz)	6SG7	6BA6
IFA (455 Khz)	6SK7	EF 92
Det and Normal AVC	OA 79	OA 79
SSB AVC Det	BAY 38 or any silicon diode	
AFA	½ 6SL7	½ 12AX7
AVC Amp	½ 6SL7	½ 12AX7
Audio Output	6V6	6AQ5
Xtal Calibrator	OC 171	OC 171
A-stable Multivibrator	OC 71	OC 71
A-stable Multivibrator	OC 71	OC 71

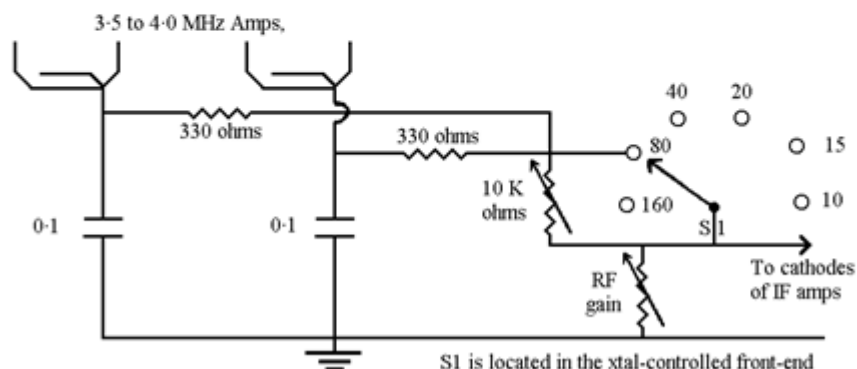
It is assumed that the suggestions in the penultimate paragraph of the Autumn '68 "Mercury" have been carried out in which case the reader will be in possession of a clean, stripped HRO chassis with the front panel fitted with the tuning capacitor, dial, "S" meter etc. fitted.

A slightly different layout is used if a Xtal controlled front end is to be fitted inside the HRO cabinet. If the original HRO bandspread coils are being used or if the front end is being made as a separate item then the original HRO layout can be used and the mechanical filter fitted as shown in the modifications.

Again this can be left to the reader to make as he thinks fit. It is a little more trouble to fit the whole lot in the HRO cabinet but not a difficult task at all. (See diagram on page 5 - this is NOT to scale)

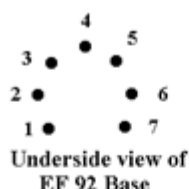
#### Circuit Description. (80 Metre reception)

Two 80 metre RF amplifiers are used before the mixer. These are not high slope valves as too much signal into the mixer can lead to cross-modulation trouble. Provision is made for AVC control on these two stages as well as manual control (variable resistor in the cathode circuits) also a de-sensitivity resistor (pre-set) is included in the cathode circuit. This is used when the amplifiers are in fact the first IF amplifiers (all bands except 80 metres). The pre-set control is on the back apron of the chassis and is in series with the manual control so that a pre-determined maximum gain exists in the two stages thus avoiding mixer overload. This pre-set control is adjusted on 20 metres so that the aerial sensitivity on 20 metres is no higher than on 80 metres. The circuit is as follows:-





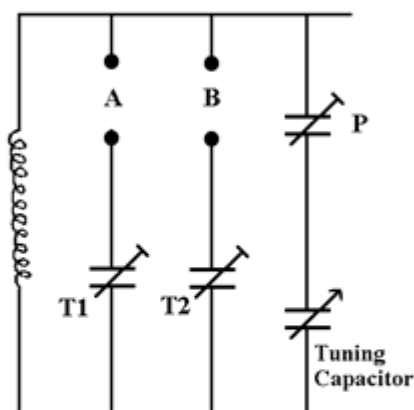
The remainder of the circuit of the two 80-metre amplifiers is as follows (excluding the cathode circuit). Apart from valve changes and individual screen feeds to the two valves the circuit is much the same as the original.



Pin 1	Grid 1
2	Cathode
3 & 4	Heater
5	Anode
6	Suppressor Grid 3
7	Screen Grid 2

Valve data for V1 and V2 in 80-metre RFA's

#### Bandspread Coil



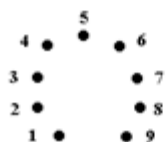
With the screw shorting across A the coil is in the "Bandspread" condition and T2 out of use but must not be changed after setting up in the "General Coverage" condition.  
T1 is the trimmer at 4 Mhz  
P is the padder at 3.5 Mhz and restricts the effect of the tuning capacitor.  
With screw in B position, P is shorted out and the tuning capacitor is fully effective - coil is in the GC condition.

If you have general-coverage coils only, then they must be modified to bandspread for this receiver. If you have the bandspread coil for 80 metres it is only necessary to adjust each of the four sections of the 80 metre coil to bandspread by adjusting the screws. The coil modification will follow at the end of the circuit description.

The mixer and local oscillator are very much changed from the original HRO circuitry. The mixer employed here is in the writer's opinion and experience the best obtainable with a thermionic valve circuit. Possibly a better cross-modulation performance is possible with FET circuitry but the writer is still only in the experimental stage yet as regards this. The mixer is a double triode and the oscillator is a separate triode. The circuit is quite straight forward and is as follows:- (Page 9)


Valve Base connections for the mixer stage are as follows: -

#### ECC 85

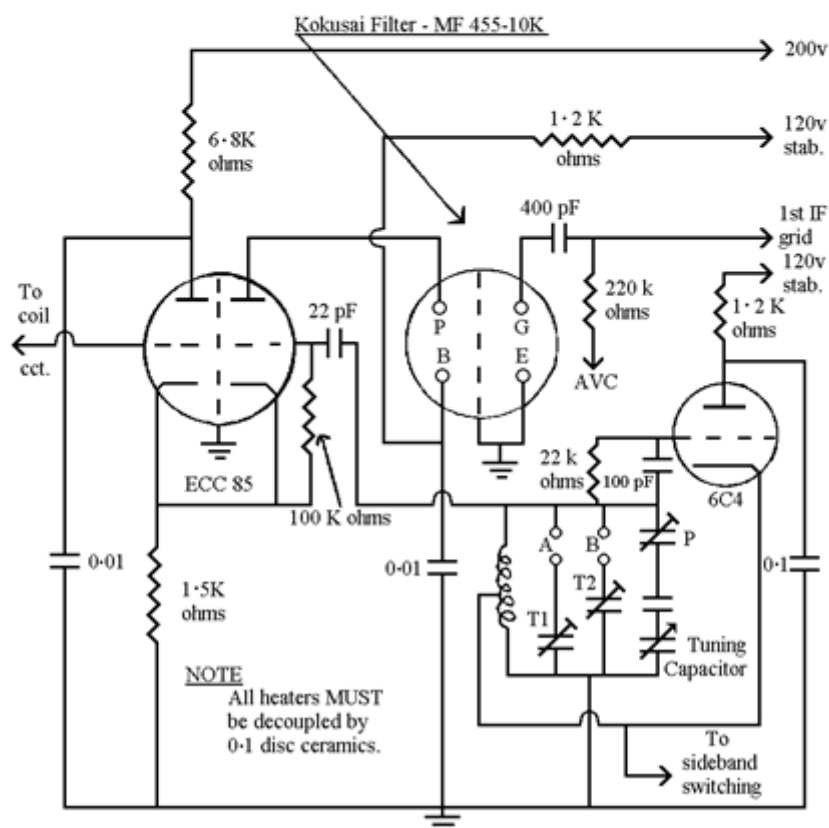


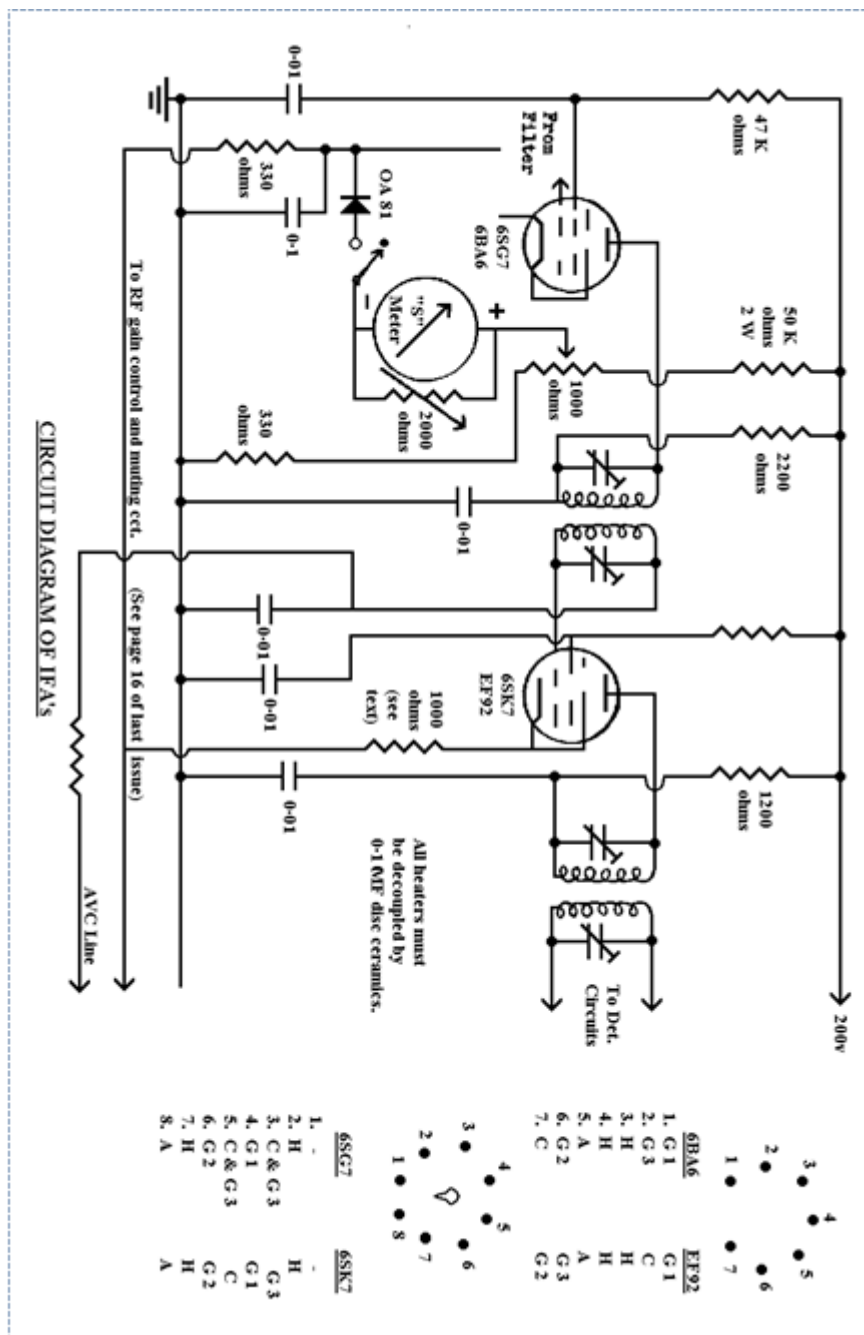
1. A II	4. ) 6. AI
2. G II	5. ) H
3. K II	8. K I 9. Screen

Pin 1 - mixer anode, 6-8 k ohm decoupled.  
Pin 2 - mixer grid coils.  
Pin 3 - strapped to Pin 8.  
Pin 6 - mixer output to Kokusai filter.  
Pin 7 - oscillator injection via 22pF and 100 K ohms.  
Pin 9 - grounded



1 & 5. Anode.	2. No connection
3 & 4. Heaters.	6. Grid.
7. Cathode.	





The connections to the coils, or rather the coil holders, will be dealt with separately at the end of the circuit description.

The IF amplifier stages (actually this is the second IFA or final IFA on all bands except 80 metres) are quite simple and present no problem at all, in fact they are more simple (thanks to the mechanical filter) than in the original HRO. It will be noted that two different types of valve are used (in both the octal range as well as the B7 range) and this is deliberately done so that there is a high gm for the stage using the filter followed by a lower gm for the tuned stage using HRO IF xformers. AVC is applied to both stages. The circuit is shown opposite.

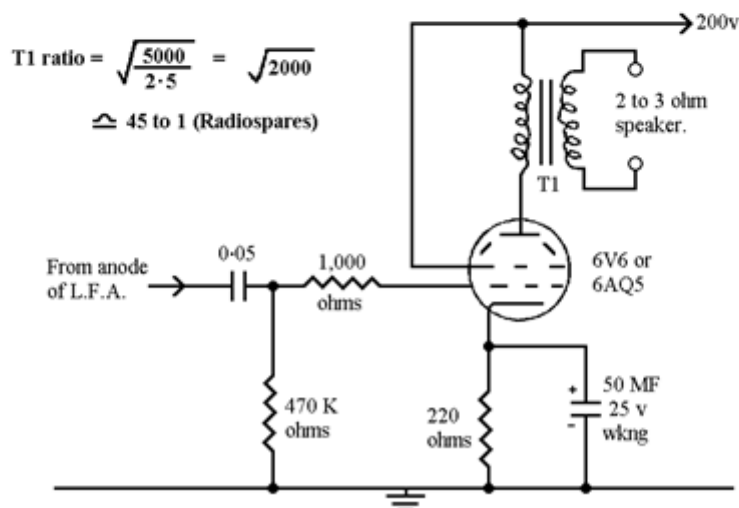
Care must be taken in wiring up the IFA's, particularly in the case of the 6BA6 and EF 92 stages. The connections of these valves are not anything like the same - great care must be taken to see that the two valves are not inter-changed. In the case of the 6SG7 and 6SK7 there isn't much difference and no harm will befall the valves should they be put into the wrong socket. In this instance the suppressor grid and cathode are brought out to different pins but as they are connected together within the circuit it doesn't make much difference.

In the case of the second IFA the cathode resistor is about 1000 ohms. This is a good value to start with. If the gain and noise is too high, increase this value. If the gain is down it may be reduced, but in 90% of the cases 1000 ohms will be found ideal.

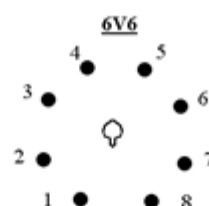
For the reader using B7G valves and who is against "mixing" different types because of the danger of transposing them in their bases, it is possible to use a 6BA6 for the second IFA in place of the EF 92 and if this is done the primary of the IF transformer in the valves' anode circuit should be shunted with a 39,000 ohm resistor. A little more care may also be needed in choosing the value of the cathode resistor.

There is no need to supply a description or a circuit of the detector stage as this is the same as on page 10 of the Winter '68/'69 "Mercury". The value of the two anode load resistors is 100,000 ohms each. This was not printed in on the circuit (Reprimand duly accepted! - Ed)

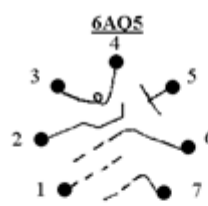
The output stage is quite conventional and is shown below. The 6AQ5 and 6V6 are similar electrically but have different bases and base connections.



A suitable transformer is sold by Radiospares and if a multi-ratio one is chosen then any load can be matched into the optimum load of the 6V6/6AQ5 (5,000 ohms).



1. Shell
2. Heater
3. Anode
4. Screen G2
5. Grid G1
6. No contact
7. Heater
8. Cathode & beam plates



1. Grid G1
2. Cathode
3. Heater
4. Heater
5. Anode
6. Screen G2
7. Grid G1

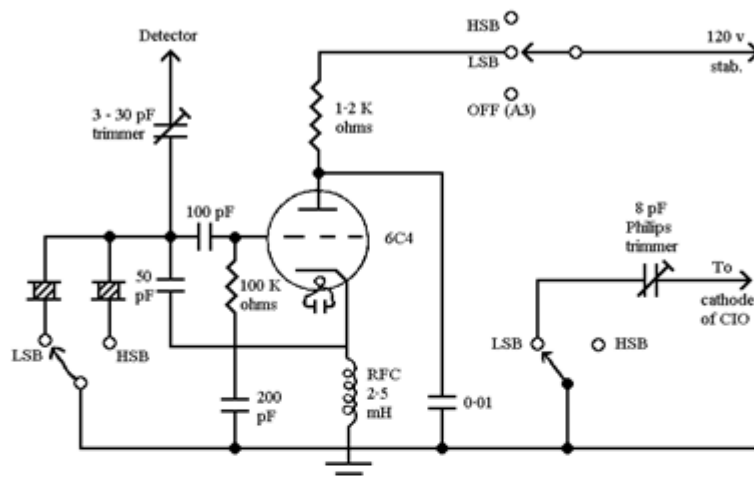
The next stage to describe is the carrier insertion oscillator (C.I.O.) which isn't the same as the HRO 2nd oscillator. In this re-build the BFO is disposed of and a xtal controlled CIO replaces it with two switched xtals - one for USB reception and one for LSB reception. The frequencies of the xtals is determined by the pass-band of the Kokusai filter, and reference must be made to the data sheet supplied by the manufacturer for your particular filter as this gives the 20 dB points on the response curve chart at which frequencies the two xtals will need to oscillate. These frequencies must be adhered to. (In the writer's case the information sheet gives the frequencies as 456.31 KHz and 453.74 KHz.) There are two ways of getting these crystals on the correct frequencies. The easiest method is to buy them along with the mechanical filter - they cost about two pounds each. The other method (and in the writer's opinion much the best method) is to buy/procure three or four FT 241 crystals at a slightly lower pair of frequencies and then carefully edge-grind them up to the required frequency using a BC 221 as a frequency standard. It takes about one hour of patience to get right on to frequency using this method. It is so easy - build an oscillator using an FT 241 base and the same circuit that you will be using in the receiver. Have to hand a small tool sharpening stone made from carborundum (3" x 5/8" x 1/4" - a couple of bob from most ironmongers, leastwise it was when I bought mine some ten or so years ago!). Also a pair of tweezers with cycle valve rubber slipped over the blades - these are for holding the actual crystal firmly by its side edges whilst the xtal is still soldered to the base pins. Warm up the BC 221 and set to the required frequency. Plug the FT 241 into the oscillator and loosely couple to the 221, listen on the 221 and check that the xtal is oscillating. Now set up the 221 accurately and measure the frequency. Strip the FT 241 crystal out of its holder and check that it still works on the same frequency. Remove the crystal (now without its case round it) and grip its side edges fairly firmly in the tweezers and rub the sharpening stone across the TOP edge of the crystal (in one direction and parallel to the top edge) about five times. Measure the crystal frequency again and see how much it has moved. This will give you some idea of how many rubs across the top the crystal will need. It's now just a question of patience until you are on the required frequency. Care is needed as the exact frequency is approached. Finally wash the crystal in warm water and detergent, (don't worry about extra whiteness or shrinkage - Ed) swill in clean water and leave to dry thoroughly. Re-assemble in its case and re-check the frequency of the crystal in the oscillator circuit. It is easy to measure the series frequency of the crystal without an oscillator circuit but this will not do in this case as the oscillating frequency isn't quite the same as the series frequency. The above operation must be done twice of course, as two crystals are needed. If you have done this before you will know just how easy it is - if you haven't, then give it a try - don't be afraid of having a go, and remember, it's a few



shillings against a few pounds!!

In my own case I started with a nominal frequency for both crystals of 453 Khz. One was moved HF just over 700 Hz and the other was moved HF 3.3 Khz. Both ended up with same degree of activity.

The circuit diagram of the carrier insertion oscillator is:-



The 30 pF trimmer is adjusted to give correct resolution of a strong SSB signal with the RF gain at maximum. The 8 pF trimmer is adjusted on an A3 transmission with the receiver set to receive SSB (i.e. CIO is "on" and the switch in the HSB position). Tune in the A3 signal as though it were SSB - it will be resolved as the carrier goes to zero beat. Then, WITHOUT moving the main tuning control, switch to LSB and adjust the 8 pF trimmer for zero beat and correct resolution. Thus you will now receive the LSB of the SSB signal, whereas the receiver in the first place received the HSB.

The above operation can only be done after the receiver is correctly aligned in all other respects and then on about 3.7 Mhz.

The whole of this section is built on a small platform and mounted just below the "S" meter. A single control gives the following positions - i) AM (CIO off), ii) LSB and iii) HSB. The valve (preferably a 6C4 so as to be as small as possible), the two crystals and switch are all made up as a small unit and fastened to the front panel.

### Coil Boxes

The coil boxes are numbered as follows:-

- |                |                                  |
|----------------|----------------------------------|
| 1) Aerial Coil | (3.5 to 4.0 Mhz tuneable IF)     |
| 5              | - Aerial input (High)            |
| 4              | - Aerial input (Low)             |
| 3              | - AVC and tuning capacitor (low) |
| 2              | - Tuning capacitor (high)        |
| 1              | - Grid.                          |



- |                           |   |
|---------------------------|---|
| 2) <u>RF Coil</u>         | (1st RFA)                               |
| 5                         | - Anode                                 |
| 4                         | - HT+                                   |
| 3                         | - AVC and tuning capacitor (low)        |
| 2                         | - Tuning capacitor (high)               |
| 1                         | - Grid                                  |
| 3) <u>RF Coil</u>         | (2nd RFA)                               |
| 5                         | - Anode                                 |
| 4                         | - HT+                                   |
| 3                         | - Earth and low end tuning capacitor    |
| 2                         | - Tuning capacitor (High)               |
| 1                         | - Grid of mixer                         |
| 4) <u>Oscillator Coil</u> |   |
| 5                         | - Cathode                               |
| 4                         | - Earth and low end of tuning capacitor |
| 3                         | - Tuning capacitor (high)               |
| 2                         | - Grid                                  |
| 1                         | - Blank                                 |

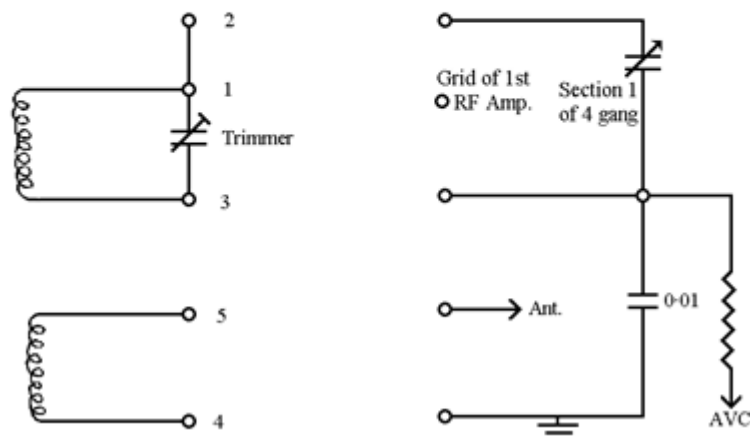
The contact strips in the coil boxes are wired up as above e.g. on the first RF coil, contact with number 5 pin will make contact with the coil box strip which is wired to the anode of the RFA.

A point to note is that the ganged tuning capacitor has its low side connected individually unlike a modern four-gang which has a common earthed rotor. Each section of the gang must have the high and low side connected up into circuit.

If the reader does not possess an 80-metre bandspread coil then it is extremely simple to convert the 2 Mhz to 4MHz general-coverage coil to 80-metre bandspread. The only snag is that it means an internal modification to the coil and it cannot be used as a general-coverage coil unless this mod is removed. The reader will know whether he wishes to make the mod to the 2 to 4 Mhz coil or whether to make a bandspread 80-metre coil up from a scrap coil unit. Both methods will be described.

#### Bandspreading 2 - 4 Mhz coil - Type JD

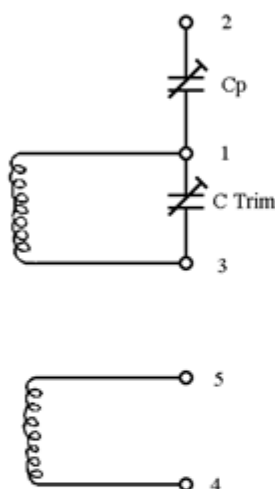
##### Actual circuit of coil in construction



It will be seen that the grid, tuning capacitor coil and trimmer are all connected together, the coil being tuned by the whole of the capacity of the first section of the gang, therefore the tuning range will be from 1700 KHz (LF end) to 4000 KHz (HF end). The range of the tuning capacitor is 12 pF to 250 pF.

It will be seen immediately that one has only to remove the shorting wire in the coil pack which connects pin 1 to pin 2 and connect a padding condenser across pin 1 and pin 2 to limit the maximum capacity of the tuning capacitor and so restrict the tuning range in the low frequency direction.

The coil connections are then:-



$C_p$  is very critical in value and must be set up quite accurately.

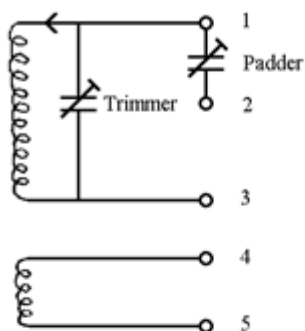
The best way of doing this is to mount a 50 pF trimmer at the side of the existing trimmer and wire it between pins 1 and 2. It can then be adjusted up through the chassis in the same way as the original trimmer. This mod must be done to all four coils, Aerial, RFA 1, RFA 2 and Oscillator but in the case of the Oscillator coil the padder is connected between pins 2 and 3.

The method of alignment is quite straightforward.

Set the main dial at 450. Inject a signal into the aerial terminal at exactly 4 Mhz. Tune "C Trim" on the oscillator coil to resonance. Don't bother too much with the aerial and RFA coils yet. Concentrate on getting the oscillator coil tracked to the dial. Inject a signal at 3.5 Mhz and turn the dial to read 50. Adjust  $C_p$  (this is the trimmer you have fitted) to resonance. Go back to 4 Mhz, turn the dial back to 450 and recheck resonance, as each trimmer affects the other. Repeat this task at each end of the dial until neither trimmer has any effect on the other. When the local oscillator has been correctly set up then the three RF circuits can be aligned in the same way. Inject 4 Mhz into the aerial and tune in by the main tuning dial (which should read 450). Peak up all three trimmers, reducing the input signal as necessary. Set up the signal generator to 3.5 Mhz, tune to resonance (the dial should read 50) and peak up all the padding condensers. Go back to 4 Mhz and keep repeating this until tracking holds over the 500 KHz range. In the case of the oscillator the padder capacitor goes between pins 2 and 3 in place of  $C_{65}$  (880 pF).

If only a scrap HRO coil unit is available then the 80 metre tuneable IF coils must be made up as follows:-

#### Aerial Coil



$\frac{1}{2}$ " former

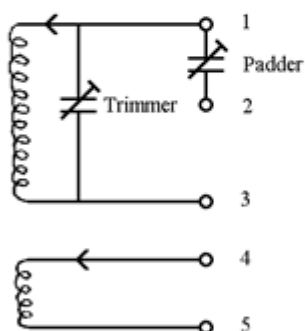
28 enamel SWG

40 turns, close wound

10 turns, 28 enamel SWG  
pile wound

Arrow indicates the direction of winding.

#### RF Coils (Both the same)



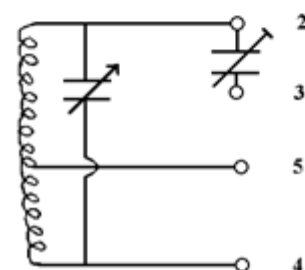
$\frac{1}{2}$ " former

28 enamel SWG

40 turns, close wound

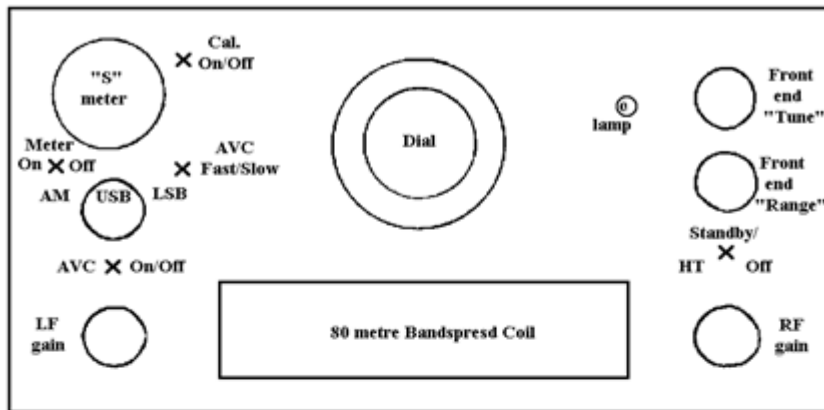
250 turns, 36 enamel SWG  
pile wound

#### Oscillator Coil

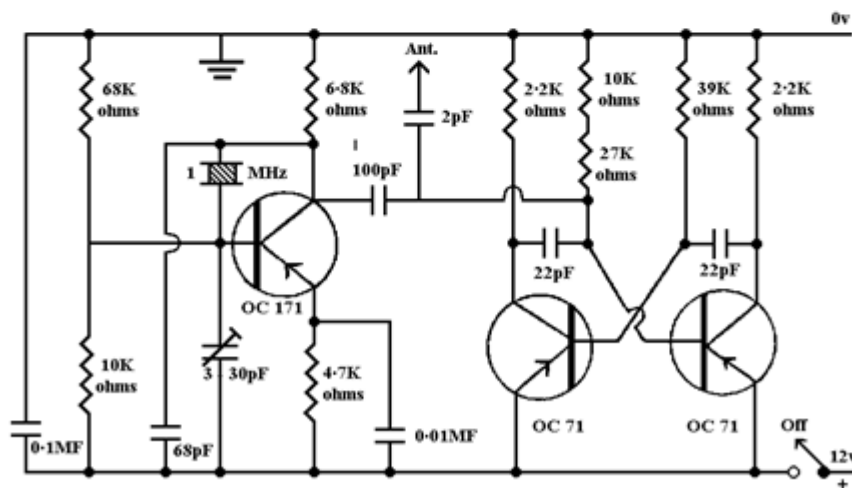


$\frac{1}{2}$ " former

37 turns 28 enamel SWG, close wound  
tapped at 30 turns.



FRONT PANEL LAYOUT - CRYSTAL CONTROLLED FRONT-END FITTED INSIDE CABINET



Circuit Diagram of Crystal Calibrator

### Construction

Normal precautions are to be taken. Short, direct wiring and all stages should be decoupled to a common earth point as is usual with any communications receiver. All heaters are to be decoupled with 0.1 mF disc ceramic decoupling capacitors. These are available in low voltage/small size units quite cheaply. The layout is not critical and self explanatory from the diagrams. If you use B7G valves the small blanking-off pieces can be wired up fairly well before being inserted into position. All the decouplers etc. can be wired in and the main interconnections made when the base is bolted into the chassis.

### Alignment

No further details will be given as comprehensive details were in the last issue of "Mercury". The 3.5 to 4.0 MHz calibration and alignment has been already dealt with in previous paragraphs.

### Power Supply Unit

It wasn't made clear in the Autumn '68 "Mercury" that the neon stabiliser is one of the British 4 pin types, which stabilises between 110 and 120 volts. These were known as the AW 3. The octal VR 105 would do just as well or any available stabiliser holding between 100 and 120 volts.

### Crystal Calibrator

For the sake of convenience and to produce a small calibrator, this unit is transistorised. It consists of a 1 MHz oscillator and a 100 KHz locked (divide by 10) astable multivibrator. The unit can be built on a small piece of Veroboard and is powered from the cathode of the output valve. (12 volts positive). It provides a very strong signal on 1 MHz and all harmonics, giving band edge marking at 7, 14, 21 and 28 MHz. The multivibrator provides markers at every 100kHz and so will give band edge marking and sufficient checkpoints through each band to interpolate very accurately in conjunction with the HRO dial. This is quite linear and each mark on the dial can be made 1 KHz apart.

### Conclusion

It is hoped that there has not been too much trouble caused by referring back to old numbers of the Society journal - unfortunately there is no stock to hand of the Winter 68/69 edition, nor is there any intention of reprinting any.

The crystal front end will appear in the Summer "Mercury" and until then good luck to those of you who are following this series.

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### SOCIETY DONATIONS

Donations are gratefully acknowledged from the following members.

G2HNL	£3/17/6	G3WRY	£2/10/0
G3RPJ	)	G8NY	£2/2/0
G3KBN	)		
G3XFV	) £3/0/0	G3ARM	£2/0/0
G3WCP	)		
R.E. Howard	)	G12039	) £1/0/0
		G3FTV	)
Anon	£2/12/6	G8BOF	10/0

## SOME OF OUR MEMBERS WRITE TO SAY

9M2DQ  
Selama Estate Group  
Serdang  
Kedah  
MALAYSIA  
22nd. February 1969

The Editor.  
MERCURY

Dear G3EKL,

I would like to thank you for the Winter 1968/69 issue just arrived here in Malaysia. I hope that most of the R.S.A.R.S. Members can appreciate just how much real work has to go into the preparation and publication of an issue like this. Having at one time been associated with an Amateur publication I reckon it must take up a very great deal of your spare time. Thanks also to John G3XBA for the complete new QTH list.

### The new R.S.A.R.S. Award system.

As a permanently resident Overseas Member this leaves me with mixed feelings and I doubt, unless the Society suddenly greatly increases its membership, that I shall ever be able to produce the 100 confirmations out here for the Special Award. I wonder what Dennis ex-9M2NF and Gordon ex-9M2PO would say?

I am a long way from G-land!! It would seem that the great majority of the members prefer to work on the lower frequencies like 80m and 160m with a few on 40m. Not an easy contact from here. Also why should the G-land members go to all the trouble of a contact with 9M2DQ when they can more easily by far obtain another confirmation on 80m. Give us a chance please. Also the chances of contacting other overseas members are now greatly reduced due to the pull out of the British Army by 1971.

I am reasonably active on the H.F. Bands and since 1/1/69 have contacted no less than 102 G stations on 10, 15 & 20 m, yet of these only 4 have been R.S.A.R.S. Members although I have been carefully listening and trying to get R.S.A.R.S. Contacts. At this rate I would be lucky to get the Special Award (& if the QSL's come in) by the time I am 70!!

I do appreciate the difficulties but I do wish please to submit the following possible amendments to the Award and request that the Committee does give every possible consideration.

### HOME MEMBERS

A special bonus point system for the confirmations from Overseas members. Say 3 or even 5 points depending on the Continent. This would encourage HF band working.

In addition, or alternatively, Home Members must produce a certain number of confirmations from Overseas members before the Special Award can be given.

### OVERSEAS MEMBERS

A special high bonus for the first contact they make with G4RS after 1/1/69.

A reduction to 75 Confirmations for the Special Award.

Possibly a bonus for contacts with other overseas members in another Continent (other than Europe) other than in which they are located.

Other members may well have better ideas.

Another point. Why do you expressly forbid the contacts between member stations operating /A or /P against confirmations for the R.S.A.R.S. Award? Personally I would have thought one would encourage members on Exercises and Field Training to work Amateur Radio in their spare time. (See amendment to Rules - Ed). Also does not this tend to greatly discourage members from taking part in activities such as the National Field Day? Does not G4RS intend to work Portable at any time and, if so, why cannot contacts with it then count towards the Award? (Yes, but why should it count!!? - Ed).

Should any member like to arrange a schedule with Malaysia I would be very happy to oblige. I do have contacts with G-land on 40 m and 80 m SSB but conditions are rather noisy at present and I expect to get a better signal on those bands in a couple of months when I put up a home made vertical. I can usually be found on 15 m on most Saturdays and Sundays around 0930 G.M.T. about 21385 or so.

Yours sincerely,  
James Pershouse  
Jimmy 9M2DQ, No.300.

(As the last Editorial said "It is hoped not too many of you will be disappointed". Obviously this letter, and others, shows some degree of disappointment and may well provoke some more positive correspondence than the six letters -1% of our membership - received early last year on the same subject -What about it -Ed)

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John R. Hewitt (RSARS 151.)  
114 Canterbury Road,  
Kennington,  
ASHFORD, Kent.

Dear OM

Many thanks for the Mercury and very pleased to see the Awards Scheme has now been settled. Now that we have a QSL Manager "all or our very own" perhaps those of us who still await cards may see an improvement in the near future!

Just one complaint. The activity periods seem very poorly supported. Is there something we could do about this? Perhaps QSOs made during activity periods could count as double points. It would seem also that CW is losing out which is unfair to "key bashers" - perhaps the committee could suggest something to balance the bias towards 'fone.

As regards suggestion for the Jubilee Year I go along with the idea of a DXpedition.

A further suggestion I should like to make is how about establishing a "Royal Signals Emergency Network" to cover the whole country, or if that's way out, to cover counties, similar to the RAEN (of which I am a member) - but which seems very poorly supported. Now that Civil Defence has been disbanded it leaves a gap when National Emergencies arise and a communication network stationary or mobile manned by ex Royal Signals using their own gear could be of tremendous assistance to Local Authorities. What do you think?

Had a pleasant surprise visit from Ray (DL5YT) and his family the other week. At the time I was unaware of his commendation, but would like to add my congratulations for his fine effort, both from a humanitarian point of view and his demonstration of true Radio Amateur spirit.

Well done pay - please call again.

Yours sincerely,  
J.R. HEWITT.

(Very interesting John. Any comments from members? - Ed)

"Hillside" ,  
Galgorm Gardens,  
Ballymena,  
Co. Antrim  
21 Jan 69.

Dear Ray,

I had a QSO with GI5AJ last night and tried to talk him into completing his application for membership, but he went QSY to the sack before I could bully him into it. He indicated that he knew you, then went QRT. I wonder if this is significant?

I must say I value "Mercury" highly, and find plenty of interest in it. As a "part-time" soldier I didn't make too many acquaintances in the Corps, but it is fascinating to guess at the character behind the calls and numbers from the comments in your "Postbag".

At present I am trying to "put the black" on certain thirsty parties in 40 (U) Sig Regt to organise a "gee-eye" RSARS get-together - a nice central location with suitable logistic support has to be found in their RHQ.

If and when it happens you will no doubt be informed, and a report will be forwarded, provided anyone can be found who can both write and remember what happened.

Plans are afoot for a fair amount of /P operating on 2m this season, with GI3RXV as the other half of the act - he was a crewmember of mine at Queens OTC (UTC it was then) many years ago and is a keen (and good) 2m CW man. I am working furiously on a new 2m portable rig which will push out a reasonable amount of RF, probably around the 25 watt mark, and 'RXV is knocking up similar gear.

We have excellent sites in Antrim, Derry and Fermanagh lined up, and if the old boy net holds up with the Forestry Commission, we can get onto the highest point in the Sperrins for Tyrone. All these sites are above 1000 ft and are known to be good from G3VPK's 4m expeditions, We hope to do some good outings!

Ian GI8AYZ (58)

(This should please the CW pundits. But do they operate VHF!!? - Ed)

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5 Ferncroft Avenue,  
LONDON, N.W.3.  
29th January, 1969.

Captain (QM) R.A. Webb,  
30th Signal Regiment,  
Blandford Camp,  
BLANDFORD FORUM,  
Dorset.

Dear Ray,

I thoroughly enjoyed my visit to G4RS despite my sense of deep shame by arriving without the rig working. Disgraceful!

I do want to say how tremendously impressed I was with the Museum, and strongly recommend any members of RSARS who can go to the Rally on the 24th August to do so, if only to see that magnificent Museum.

All good wishes,

73s  
E .M. WAGNER

G3BID (381)

(Praise indeed! But it is damn good value - Ed)



334 G3XTL  
31 Princess Avenue,  
WARSOP,  
Mansfield, Notts.  
9th January, 1969.

Dear Sir,

Thanks for Mercury received to day, together with the new Award Rules. I quite agree that the RSARS Awards should be in the context - "If it's worth having it's worth working for" - and should not be made too easy. However I feel that Clubs like our own T & AVR unit may only get the chance to work as a club station from a /A location which will depend upon where we happen to be sent for exercise periods. The G3SIG licence (AFF 5) is now held at my home address on behalf of 39th (City of London) Sig Regt T & AVR and I was hoping that perhaps a couple of short periods each year our club could have met using the callsign /A with the main aim of accruing contacts with RSARS stations. May the /A rule be reconsidered in respect of T& AVR Clubs please?

Ref. your comments in Mercury Postbag :- MB9BS was the club station in Klagenfurt, Austria, where I was lucky enough to spend some time after SWLing for MD7DC. I would be interested to hear from any members who were in these two stations. Nothing as exotic as MP9!!

Two of my first RSARS contacts since getting my call, G3XTL, were with old friends from 404 Sqn, G3SIQ and G8PG. The latter was instrumental in kicking me over the RAE hurdle and whether or not you find the part interesting I must tell it.

In the summer of 1967 I found myself with many of my old pals in the newly formed Squadron of 39th Regt at Burniston Barracks, Scarborough. The unit holds an annual morse competition of which I had no knowledge until press ganged into it by a WO II who kindly arranged my schedule to enable me to compete. I came away from Scarborough with a brand new HRO, presented as first prize!!

The unit sports many amateur calls and I was asked what mine was. I admitted that I hadn't bothered with amateur radio since 1953 but as the HRO would have to be put to good use, I said I would try for the RAE. Some reckoning was done on the way the calls were being issued and my friends decided that if I managed the 1968 May RAE (and the morse test) I would be in the "Xrays". Thinking of CW rhythms and the possible issue of a difficult one, I jokingly said I would settle for XTL because I would most likely be using XTL rigs for CW working!! Gus, (G8PG) kindly offered to prime me for the RAE with a correspondence course. Starting from basics, it was surprising how much had been forgotten, but eventually Gus informed me that I was ready. I reckon I must have caused him some disappointments during the ten hectic weeks of large envelopes passing between Wirral and Mansfield! I sat the exam at the local Tech with another chap opposite. (Wonder if he ever passed his Plumbing exam?).

The issue of G3Xs - was well on the way by the time I received the slip from the Technical College. Humber Radio informed me by telephone that I could take the morse test the next day and that hurdle was soon over. More monitoring on Top Band showed that it would be touch and go, but within the week I sent off my application for a licence and asked that "XTL" be reserved. It was a close race but I was told to send the fee by return post as the callsign was due for issue.

16th Sept. 68 was the great day and since that evening many RSARS stns have been worked with 21 confirmed, all 160 metres CW QSOs. My sincere thanks to G8PG (26).

73

de G3XTL

(Well done O.M. and all power to the T & AVR. May the amateur spirit never die. See amendments to Award Scheme, para 10 - Ed)

Albany House,  
Goonown,  
St Agnes,  
Cornwall.

Dear Ray,

Thanks for last month's "Mercury" a very interesting issue - also congrats to G3XBA for a fine job on the members list and QTH's.

The new contest rules I think very fair and although I have made Class I under the old Rules, will now be going all out to make it again under the new ones.

I see that place Catterick mentioned several times in the "Mercury". I wonder how many know what it was like up there in 1926? I landed up there one afternoon (pouring with rain) with the 5th Infantry Brigade on strike duty (my Regt was the "Cameronians"). The old huts had not been occupied since the P.O.Ws. moved out. They were wood frames covered with netting and cement and falling to pieces. I was there for some months before being drafted to India. On leaving my parting words were "Well thats the last I shall see of Catterick". Little did I think I should be back there in 13 years time - but what a change. The barrack rooms were like palaces against 1926 believe me!!

You mentioned the 12 set in your last "Postbag" - yes, they went on 28 OK - short out some turns in P.A. Tank and double in the final; also used to get on 21 with the M.O. on 11.5. Worked the world with the old 12 set till we got TV in Cornwall!! Wonder how many can remember the old No.11s and the biggest juice waster of the lot (both in petrol and RF), the No3 set? It used a genny driven by a Dorman engine to get the HT on the ATS 250's in the Final - they were as big as a man's head (the ATS 250's!!)

Things have changed since those days and how!! When I first saw the final of a 3 set I asked the instructor if the ATS 250's were in push pull. He looked at me and said "You must not pull them out, you might break them. You unscrew the cap and lift them out". When I said "No, are they Push Pull or Parallel", he looked at us (with me - G3HW, G6JL and G3IW) and said "who the Hell are you blokes)? " When told we were Radio Amateurs he said "Here take the B..... handbook yourselves, you probably know more about it than I do - I'm only supposed to show you what the knobs are for".!!

Well, now we are settled in Cornwall after serving in many places including India, China and Palestine and this is where I intend to remain. I'm 62 now and have had a good innings - my six years with the Signals was one of the best six years of my life, always a damned good crowd of chaps.

By the way I forgot to mention that when the strike was over in 1926 they had to give us something to do so we were kept busy trench digging for the drainage of what is now the Sports Stadium at Catterick!! I've never seen such a place for mud and rain or perhaps 1926 was a very wet year!

73 and Good Luck to the Society

Ted

G2AYQ No.178

(A fine tribute to those who served in Corps Ted, thank you.

Funny enough, there are still a lot of Instructors who throw the book at you.

Thank you for the dope about the Stadium - the nearest I got to digging trenches was just below Vimy Lines in '39 - A.R.P. trenches! - Ed)

Gi2DZG (5)  
35 Gilnahirk Park,  
Cherryvalley,  
Belfast,  
BT5 7DX

13th January '69.

Dear Ray,

I feel I must write and say how interested I was in Kay Hitchen's article in the last "Mercury" about PE2EVO. I was the first Gi to QSO this station in 1965 when it was first opened and as a result, in 1966, I received from Philips in Eindhoven, Holland, a dark green tie with the Evoloun symbol on it. Amateurs who received the tie were those who sent to PE2EVO the first confirmation from their country; those who became personal friends and those who forwarded QSL cards and did a lot of work for PE2EVO. Incidentally the Peter that Kay met was (and still is) PA0PAZ.

"Mercury" still continues to provide interesting reading and it's nice to see technical articles of a high standard within its pages.

Still finding out how to tune up the KW 2000A without reading the handbook - I've only been on about three times so far but with the Awards side off my shoulders I shall be able to find more time for activity.

Best wishes to you and all the members.

73 de

Walter

Gi2DZG

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#### ACTIVITY PERIODS

The last Sunday in each month is a particular time for you all to get out and about on the bands and work fellow members.

Frequencies are: 3505, 7010, 14020, 21030 and 28040 for CW  
and 3750, 7050, 14180, 21380 and 28680 for AM and SSB.

Have a go please - the dates this quarter are:-

27th April 25th May 28th/29th June (Reunion Weekend)

The HQ Station, G4RS, will try to adhere to the following schedule on these dates, all times GMT.  
0900 hrs: 28680; 0930 hrs 14020; 1000 hrs. 21030; 1100 hrs until 1200 hrs 21380; 1300 hrs 7010;  
1400 hrs 21030; 1500 hrs 21380

In addition GB3RCS will be operating two stations from Catterick over the Reunion Weekend, one station on Top Band or Eighty SSB and one station on Ten, Fifteen or Twenty primarily CW, depending on conditions.

G4RS will be running slow morse transmissions each Tuesday and Thursday evening at 2000Z on 1865Kc/s. The morse speeds are 8, 12, 15, w.p.m. and are intended for members and SWL's who are trying to work up to the GPO morse test speed.

G4RS and/or G3CIO will be active on Tuesday and Thursday evenings on 3780 plus or minus 5 and 3505 from 1830Z.

### FROM THE EDITOR'S POSTBAG

- 9H1BE 469** Your long letter very welcome Harry and all points duly noted. You mention your new QTH but you are more than welcome to make use of the Society QSL Bureau you know. However, I have listened for your activity as controller on the Malta net each Sunday am on 28.5 Mhz (on AM) but no great luck. That is at 0800Z by the way until about an hour later. For the record, your present QTH for mail purposes is:-  
2, Silvano and Lydia Flats, Congress Road, Mosta, MALTA G.C.  
Have you heard Les Beaumont, G3RUS, on SSB yet:!!?
- Gi2DZG 5** Rather a change to have you in the "Postbag" section Walter! I am very glad that you are finding more time for operating and it was good to hear you on 40 the other week. Obviously you have mastered the queer collection of controls on the front panel of the KW - what about the ones out of sight !!? Yes, the Society badge does look attractive and stocks have been moving quickly. I hope there will be plenty to be seen at the Old Comrades Reunion this year and particularly at the Rally on August 24th.
- G3VYF 327** Your New Year resolution is well worth repeating Mike. "I will work at least as much CW as I work SSB" - excellent thought and one that a lot more of our members could follow. I have sat at 3505 on the HQ Station Club evenings like a "nana" and in three months (last Oct., Nov. and DEC) QSOed six members!! It has been almost as bad on the Activity Sundays on the CW freqs - has everybody forgotten how to wield a key? (By the way, where did you put your sub - it wasn't with your letter!!)
- AFF 13** Very nice to hear from you OM and to know that Ron Cox is helping out. Good value is our Ron, with a heart of gold behind a gruff exterior. If I was a betting man, I'd lay odds that he'll have your Club with it's own Amateur call sign before the year is out. Don't be too disappointed about the lack of QSL returns - this is a common fault. Hope your HP 19 set is ackling well - they are one of the most inefficient RF generators around, yet so very much liked.
- G4LO 499** Hope your bronchitis has cleared up by now old man and that you have been able to make that secretive dash to the bottom of the garden and the shack. Yes, G3RUS has managed to get on the air, but has had to modify the rig. somewhat. He is going great guns now and thoroughly understands "Donald Duckese" and his hour of operating per PA bottle is well within the norm. Have you had any luck with an old HRO?
- 9V1PF 116** As one 9V1 call dies, another is born!! Very psed to hear that you are active at last Jim and that you had little trouble in getting your ticket. You were heard during the BERU Contest - any hopes of a certificate? Will you be getting up to any DX-expeditions?
- Member 548** Tnx very much for your news and dope OM. Hope the RAE result was OK. If not, there is always a Listeners award to chase. Glad you enjoyed yourself with 9M2RH. Yes, pse call in here, you will be more than welcome. If there is nobody in, the contact numbers are on the door.

- ZC4IM 435** So you are nearly active (airwise) Iain - good show. Another for the benefit of our CW fiends, sri friends! A couple of watts to whatever is available on 7020 and multiples thereof, 28 should be the best bet!! Keep at it Iain and QRO when you get the time!!
- G2UV 330** Thank you for writing Bill. I think we have about half a dozen, maybe a few more, of real "Old Timers" in the Society who were in the RE Signals in World War I, all as you say rapidly approaching seventy! One consolation Bill is that amateur radio need not date you and it is a hobby to be enjoyed by all, either in their first or second childhoods or in between hi!!
- G5RY 414** Which leads me very neatly into the next snippet from Dick, who writes "May I be allowed to congratulate the Society on all it is doing to foster the ham radio spirit and so bring together the elder members of Royal Signals and RE Signals - I have had the pleasure of meeting over the air quite a few RSARS members who had served in the 1918 effort and are still very active hams. So on behalf of the youngsters please keep up the good work, as they have no idea what a boon amateur radio will be to them in later life". Very good of you to write and say such nice things Dick and I sincerely hope that you may enjoy many years yet of our hobby.
- G3XTL 334** Congratulations on getting your call OM and very pased to know that G3SIG will be given a regular airing now that the call has been taken over by you. When? 80 and 160 metres on Wednesday and Thursday evenings from 2000Z on CW. The HQ Station worked you during the Affiliated Club contest in January and you certainly had a nice signal then. Keep up the good work and don't let G3SIG die!!
- G3RPJ 242** Thank you Ian for your letter and donation. Glad you liked the "Merc" and in particular that the Awards Scheme rules meet with your approval. As you say it should promote activity without giving the "DX-type rubber stamp QSOs" - they don't give me much satisfaction either! Look forward to seeing you on 24th August, meanwhile good hunting.
- G3EDW 162** Well Peter, it was a pleasant surprise to hear from you early in the New Year.  
(ex 9J2W) OK about your not being active from your present QTH but that you hope to get cracking late April/early May from your final resting place in Torrington, Devon. For any of the members who had the pleasure of working Peter either as VQ2W or 9J2W he has all the logs with him and he will be only too happy to oblige if any one still needs confirmation of a QSO. His temporary QTH (until end of March ONLY) is:-  
1 Pullen's Row, Witheridge, Tiverton, DEVON.
- G3CRP 43** What a pleasant surprise to hear from you OM. Hope you liked the lapel badge and OK on your being "intermittently active under various Club and other calls, mostly 80 metres CW. How do we recognise that it's you!!? Keep in touch and look forward to working you one day.

- N0. 53** So you have landed up in Gan Island for a stint. I thought the posting to 9V1 land was too good to last!! You should be able to enjoy yourself with amateur radio out there. Tks for your postcard - the place looks quite enchanting from the air, but I've heard different!!
- 5N2AAF 139** Congratulations Mike on being re-elected Hon. Sec. of the Nigerian Amateur Radio Society for another two years as well as editor of "NARS NEWS". Good news too that you will be representing NARS at the IARU Region 1 Division in May. You also mention that you run the QSL Bureau - no wonder you find little time to get on the air. Hope we manage to QSO more often this year. Keep up the excellent work.
- DL5ZF 470** Very pased to hear that you have got your DL ticket John. Hope the Ammonia Biflouride did the trick for your rocks. You can't have the right local accent for the DL area that you are in - any German chemist should be able to understand "Haben sie der Ammonia Biflouride von der Kristellanetchenverke" !!!! You mention "All the neighbours are waiting with bated breath for the first wiggle to appear on their TV screens so I'll probably make my first call from the loft with the ladder pulled up" - were they hostile?
- G3JVD 190** You are certainly making very good progress with the New Award Scheme Wilf. I can't really imagine just how you got away with having a 33 set in the front of the living room window, your XYL must have been most accommodating! Your report last quarter about using your 12 set on 10 metres has prompted a comment from G2AYQ (178) who writes "Yes, they went on 28 OK - short out some turns on the PA tank and double in the final; also used to get out on 21 with the MO on 11.5 - worked the world with the old 12 set until we got TV in Cornwall!!" No wonder poor old Ted had TVI. By the sounds emanating from behind the Iron Curtain right now I imagine that they have reached the same stage of development!! Your idea of using only Society cards for the new Scheme is very commendable and I only wish it was possible to overprint in such a small quantity. But the load on G3WRY is more then enough so use of the "plain 100" pack of the Society card seems to be meeting with quite some success.
- G3OMH 112** Hello Dennis! No hard feelings about your profession I trust! You must have an intolerable task trying to sensibly apply the rules as a GPO Sorting Office Inspector. Why, oh why was a two tier system introduced? Surely if the postal charges aren't sufficient to run the service, then the appropriate authority should have the guts to say so. (the same as I had to last AGM!!)  
But back to radio - OK on your activities. Top and Two, with "home brew" and HF bands with a DX 100 - hope to catch you one day.
- G3VDR 119** Hope the manual on the 22 set was of use to you. It will easily operate on Top and 80 with very little mod and with it's original DC PSU will work from a 12v car battery. Good luck and hope to hear you on 80 one evening - CW?
- G3FTV 367** My sincere apologies Frank for the slip about the only all CW Class 1 Award under the old scheme. Guess I was carried away with the letter from G3ARM as he described his gear - almost exactly the same as I was using as PK1RW in '46. But to get the record straight, there was more than one "all CW " Class 1 Award with the first scheme and one of the other recipients was Frank, G3FTV. Well done Frank, and all power to your fist.

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- G3VDF 392** Hope you have had some success with your quest for a 19 set. They will certainly go on 12 volts (were made specifically for just that) but your battery will have to be a good 'un!! Trust that the call sign list was useful.
- GM3GFO 6** Your's a good old number Jim, but we don't hear too much of you, except at subs time. This is another "can you remember" one, this time Jim is enquiring if any members were in Lodi Road, New Delhi between 1943 and 1946. Any offers?
- G3XUR 426** Very pased to welcome you to the Society Tom and glad you have already found JXL's HRO articles interesting. You give your service number as 146201 and wonder whether or not any of your buddies may be in the Society. Quite a good chance actually Tom so if any of our members were in any of the following units during the last war years and can recall a Foster C.T.C. (surely some "Q" type will remember those initials!) then Tom will be very pased to get in touch. 44th Div Sigs; 2nd TTB; 3rd TTB; 12 L of C Sigs and 2nd Army Sigs (Rear). For the record Tom runs a "Home brew" tx with an 813 in the PA and has been battling with TVI ever since he got his call (hard luck). His rx is a CB 150/4 but he is so taken by the HRO article of JXL that he has scrounged an old chassis and intends to do the "Type 'b' rebuild".
- ZC4HS 142** Numerous letters and chitties from Harry during the quarter - all saying how pased he is with the Society and then occasionally the odd niggle. One of these odd ones is quite justified actually and it is "What about a few more members on 15 and 20 metres". Harry thinks that there could be a lot more activity and confirms that G's get out to Cyprus very well. So what about it - even yours truly has had a couple of natters with Harry on 15 and that is really going some, as G3RUS and DL5YT know!! Good to hear that you have found Nick, 5Z4LS (293) - It at least let's all know that he has managed to solve his power problems.
- VE3ZM** Steve writes to say "how-do" and to let all and sundry know that he is rebuilding an  
**VE3ATU** HRO. Apparently he started his labour of love long before G3JXL went to print.  
**G3GSK 415** Steve wishes to be remembered to all our members and in particular to any members of Course 129 at 150 OCTU and also 8 F of S Course. He also asks has anybody any news of G3FGD (not a Society member, but somebody may know) W.J. Mordue.
- MP4TAF** Numerous short notes together with a few QSOs (thank goodness on 'fone) have  
**DL2BJ** proved that Derek is very active from the Middle East. He started off with an AM  
**G3RKN 588** rig using 813 xtal controlled (the rock seemed to be sitting next to the PA from the way it gradually drifted HF during xmissions) but soon graduated to SSB and can be heard on all bands, 80 thru to Ten almost any time of the day or night. (As Derek put it in one letter "Bags of activity Ray, no women and I must try and keep off the beer!!). Whatever the reasons it is very nice to hear from you in that neck of the woods and good luck with any wanderings you may worm your way into.

### **STOP PRESS**

In an endeavour to stimulate more Overseas contacts on Activity Sunday, Jimmy 9M2DQ has kindly agreed to act as "Overseas MC" and will follow the HQ Station frequency pattern where suitable.



### THE AWARDS SCENE

As the original awards scheme has yet to be wound up it is not possible to offer a complete list of Award Winners but this will be done in due course.

As at 1st March 69 the old scheme requires the following additions:-

#### CLASS I AWARD

- 53. G2KK
- 54. G2WQ
- 55. G3FTV
- 56. G3JKO, 5N2AAF
- 57. G3WRY, G3WRY/A

#### CLASS II AWARD

- 69. VS9ALV, G3WMZ/5A, G13WMZ, G3WMZ
- 70. G2KK
- 71. G3RUS
- 72. G3ABM
- 73. G3JKO, 5N2AFF

For members who are still hopefully waiting for QSL cards for the old scheme, claims for that scheme will be accepted until 30th June 69 IMI 30th June 69, and no later.

For the new scheme, things have been moving quickly and the following report was received dated 1st March.

### "THE CLASS III, II AND I KID"

First I would like to thank Walt G12DZG for handing over to me a first-class system for the RSARS award scheme. Since taking the chair only two letters have arrived, asking about one 2nd Class Cert which had gone astray in the post, and one 1st class award which had not arrived, but did arrive several days later. If that's the amount of queries I get whilst doing the honours I will be more than pleased. Thank you again Walt. I am proud to be your successor, so now you relax and enjoy yourself.

I had just about finished off the booze left over from Xmas and New Year when the first, second and third envelopes arrived claiming the Class III award. Thinking there would be at least 6 months rest period before starting I had a big surprise. First honours go to Ken G2KK, Wilf G3JVD and Dave G3HSE. Congratulations.

All the certificates are now available for those who wish to apply, but may I remind you all (with all due respects) that you must include in your first 25 QSL cards the compulsory card from G4RS. Several members have sent the necessary 25 QSL cards but had unfortunately failed to include G4RS. These claims had to be held back causing delays until the error was rectified.

I am continuing to send the certificates inside a cardboard tube and with a larger turnover of certificates it would be appreciated if members could return the containers to me so that they can be used again for other claimants - thank you.

Good luck to you all with regards the awards scheme and I hope soon to be hearing from you sometime or other-.

73

Ron (G3VIS)  
(Very Important Soldier)  
(Who's kidding who!?-Ed)

### AWARDS LADDER (1969)

(As at 1st March 1969).

Class III	Class II	Class I
1. G2KK	1. G2KK	No offers
2. G3JVD		
3. G3HSE		
4. G8VG		
5. G3HWL		
6. G3XSN		

### SUBSCRIPTION ACKNOWLEDGEMENTS

Subscriptions are gratefully acknowledged from the following members between the period 1st Dec. '68 and 28th Feb. '69. Thank you.

6	11	87	116	140	143	149	151	152	153	163	167	170
175	176	178	180	194	196	202	208	209	214	231	232	242
259	261	265	266	274	279	282	286	310	318	330	333	334
336	340	341	349	352	356	368	374	396	400	409	411	415
420	424	428	432	435	453	456	467	469	481	485	489	492
499	500	502	517	521	530	541	542	546	548	570	592	AFF10

As at 1st March cards were held by G3HSE WITHOUT SAE's for the following members.

G2AVR	G3NDJ	G3VNX	GI2DZG	9M2DQ	G3AKF	G3NVK	G3VYF
GI3JEX	9M2GF	G3AGO	G3NXB	G3VYZ	GI5DX	G3ARM	G3NXM
G3WCP	5N2AAF	G3BEZ	G3OLE	GM3AVA	G3BLD	G3ONU	GM3KLA
VS6AA	G3EJF	G3ORY	GM3NKO	VS6DR	G3EHZ	G3PHK	GM3TDS
VS6FX	G3GEJ	G3PNM	GM3VIO	G3GJH	G3POY	G3WEQ	G-11760
G3GLQ	G3PYN	G3WNH	No.213	G3HBE	G3SIQ	GW2OP	G3HCM
G3SZQ	GW3AX	DL2BJ	G3INA	G3TKI	G3WNI	GW5BI	DL5XN
G3KPQ	G3UJW	G3WOD	GW3GHC	DL5XO	G3LHJ	G3UNC	G3WQZ
GW3POD	DL5XX	G3LNC	G3UUA	G3WTJ	GW3SVY	DL5YA	G3LNS
G3UUG	G3WUT	DL5TP	G3LOV	G3UTX	G3WXX	ZB2A	DL5YS
G3LUN	G3UPY	G3XBR	DL5YX	G3XEE	ZC4HS	DL5ZC	G3XUC
DL5ZD	DL5ZZ	G3CC	G3HS	G3IV			

Would members please send SAE's to the Bureau Manager and so save me time by not having so many outstanding in three months time. It will also help greatly both G3HSE and G3EKL if all members ensured that their RSARS numbers appeared somewhere on each QSL card as QSL's are being received for NON members. Please, the Bureau is for RSARS members cards only - thank you.

### CORPS ANNIVERSARY - 1970 DXPEDITION

Members will have noted that the President suggested that the Society should endeavour to mount an expedition to some rare country to mark the occasion of the Corps Jubilee in 1970. Will members please let the HQ Secretary know what they consider is a suitable country that requires to be put on the air.

Present thoughts are that a Society Expedition might establish itself for a week or two at a location that cannot easily be reached by individual members on their own initiative. The party would activate as many amateur bands as possible bearing in mind the size of the party, equipment availability etc. Clearly the cost to the Society must be kept to a minimum and it is hoped that the party would be transported by sea/air by Service means. This, with regret, might well limit the party to serving members only.

Volunteers are NOT required at this stage unless they are prepared to contribute money and equipment, and can also be made available over the period in question.

All ideas will be considered - the aim is to bring the Corps into the public eye for the Jubilee Year.

(N.B. The HQ Secretary is now located at Blandford - see inside cover)

## NET NATTER NOTES

With each issue of "Mercury" it is hoped to publish short notes about the Royal Signals Amateur Radio Society Net. The Net, active on Tuesdays and Thursdays, meets on, or around, 3780 Khz and usually begins to "fall in" around 1800Z, with G4RS joining in as soon as possible afterwards. Members joining the Net after 2000Z may find that Net Control has been assumed by another call (G3DPS/A, G3EKL, G3UDU etc.) or by one of the Net members.

The reason for this is that at 2000Z G4RS has to QSY to 1865 Khz to conduct Slow Morse Transmissions on behalf of the Radio Society of Great Britain and, of course, the license does not permit the operation of G4RS on two frequencies simultaneously. Where possible, control will be handed over to a "non /A" call in order to allow QSOs for RSARS Award purposes.

### JANUARY

January was mainly spent getting the Net organised and settled. A few "regulars" laid the 1969 foundation stones and the Net began to build from there.

### FEBRUARY

The Net had become a regular habit by February and the log shows many "regulars" appearing on frequency. G8VG (Bill), G3JVD, (Wilf), G3RUS (Les), G3HWL (Les), G3HSE (Dave), G3WQI (Alf), GM3PIP (Peter), G3YBT (Colin), DL5YT (Ray), G3XSN (Bert), G3HNL (Eric), G3NXM (Walter), G2CVY (Bill), G3WET (John), DL6AA (Heinz), G3PC (Ray), DL5YQ (Spike, from the "QRZ" Club), G3WEO (Mike), G3HXJ (Wilf), G3WBL/A (Keith), and GM5NKO (Ron) all appear in the log for February as does G3EKL (at S9 + 321 dBs!). G3EFJ (Johnny) dropped in on CW to pass along the sad news of the death of G5UP. G3WBL/A was also on CW with a nice "fist" and good signal strength. On the 27th Ron (GM3NKO) looked in to say that he was going to QSY HF to QSO MP4TAF (Derek). He came back a little later bringing MP4TAF with him. A call on CW from HQ was not very successful, but Derek appeared, working with OZ7XJ (who reported that Derek was 5 and 9), around 3798 Khz on 'phone. The OZ station attempted to MC but mainly succeeded in "feeding" Scandinavian stations towards T.O. The frequency became bedlam with some fine displays of bad operating. An attempt by G4RS to try DX type working from Trucial Omen only made matters worse. To help Derek (who was only 4 and 5 at HQ) to overcome the persistent callers on his frequency whilst he was in QSO it was suggested that Derek transmit on one frequency and listen a few Khz lower. At this stage both Ron and the OZ went QSY/QRT apparently, and quite rightly, in disgust. I'm glad to say that few, if any, Society members were involved in this display. The episode closed with a long (in fact, too long by far) QSO between a GC and Derek, followed by a QSO between two G's on the frequency. Anyone having heard Dennis (9M2NF) operating VS5RCS will understand how stations should be encouraged to work DX.

### MARCH

This month the Net started off well with over 20 stations checking in on the 4th - a lot of "old faithfuls" and a few new, and, therefore, "rarer" calls. G3DPS had to pull out as Control Operator at 2000Z but left the Net in the capable hands of Tony (G3UNC). Several members, QSY'd to 7012 Khz to try and work 9H1BE (another member) who was due to appear at 1930Z. How successful members were is not known at the time of writing. Johnny Walker (G3UDU) stepped into Net Control position on the 6th and a full Net once more checked in, including G3DSS/M who seems to love motoring in the dark! On invitation DL5ZG (Royal Canadian Air Force) joined the Net to give any members a chance at DOK A/4. Another brief visitor was GB3CRW from the Coventry Rag Week, and G3WET passed along the "gen" on GB2HRH, the special station for the Prince of Wales Investiture. (This call will NOT count for the Award Scheme - Ed)

## **GENERAL**

In answer to a question raised on the net it would appear that although /P and /A do NOT count towards the RSARS Award, /M does. Therefore, all members who contacted Stan (G3DSS/M) have one more for the Award. Bear in mind though that it is necessary to exchange QTH (among other things) in order for a QSO to qualify, and as Stan's "QTH" will, no doubt vary according to the time of the QSO, listen good!

Another point that will bear "airing" again is the question of netting. At one time the Net was checked over almost 4 Khz. This does not present too much of a problem at HQ due to the use of the SB-640 separate Linear Master Oscillator but it does mean that quite often a station will come on with two or three words of wisdom (i.e. "He's gone QRT") which is lost in the off-tune distortion. This means a repeat and retune which in turn means time lost. So will all stations please make a special attempt to get "spot-on" frequency if only for the benefit of those participants who are working straight transceive and, therefore, shift THEIR TX frequency everytime they retune to a Net station.

Talking of time, it is fully appreciated at HQ that when we get a big Net it often means that some people must wait for what must seem ages before it's their turn again. With this in mind, two suggestions are offered. The first is that instead of Net time being absorbed with qualifying QSOs we adopt the same "traffic" principles as are used by such Nets as the South East Asia Net, i.e. stations check in and give Control (and other stations) a report, pass any traffic to Control and Stand By. When a "required" station turns up, the requiring station asks for a QSY and completes the QSO. Both stations then return to the Net frequency (exactly on frequency, of course !). It would be the responsibility of the calling station to nominate frequency etc.

The second point concerns the use of such codes as the "Q" Code etc. Looking through some Amateur Radio publications recently it was interesting to see a list headed "Special ARRL QN Signals for Net Use" and it was felt that, although the ARRL dictates that these should be used on CW Nets, they could easily be adapted for RSARS Net use, always providing that their use would be accepted by the GPO as they are not International "Q" Code signals. A list of the more useful are included.

It has been suggested that HQ run a CW Net. This is quite possible although it should be pointed out that last year G4RS made regular calls on or around 3505 Khz with little result. If, however, it is felt that a CW Net would help members then this will be arranged. Views of members would be appreciated. It should be pointed out that CW members are always welcome into the normal net as are AM stations (We regret that, at the moment, we cannot accommodate Operators Lamp Daylight Signalling, Heliograph, or Flag-Wag but we can cope RTTY if necessary!).

## **IN CONCLUSION**

If you are a regular visitor to 3780 Khz (+ or -) on Tuesdays and/or Thursdays - many thanks for joining in. If you have yet to join us, then drop in and meet the gang - you'll be welcome. It will give you that necessary G4RS contact (if you get in before 2000Z) and possibly 15 - 20 member contacts towards the 25 necessary for the Third Class Award.

73

G3DPS Jack.

Any suggestions/criticisms which you can offer to improve the operation and enjoyment of the net will be greatly appreciated. Drop a line to G3DPS,

15 Valley Road,  
Blandford Camp.  
Blandford Forum.  
Dorset.

# **SPECIAL ARRL QN SIGNALS FOR NET USE**

(Reproduced from the Radio Amateurs Call Book)

<u>"Q"</u>	<u>Note</u>	<u>Interpretation</u>	<u>Possible RSARS Net use.</u>
QNC	-	ALL NET STATIONS COPY or I HAVE A MESSAGE FOR ALL NET STATIONS	As shown on left.
QND	*	NET IS DIRECTED (CONTROLLED BY NET CONTROL STATION)	As shown on left.
QNE	*	ENTIRE NET PLEASE STAND BY	As shown on left.
QNF	-	NET IS FREE (NOT CONTROLLED)	As shown on left.
QNG	-	TAKE OVER AS NET CONTROL STATION	As shown on left.
QNH	-	YOUR NET FREQUENCY IS HIGH	As shown on left.
QNI	*	NET STATIONS REPORT IN or I AM REPORTING INTO THE NET	As shown on left.
QNL	-	YOUR NET FREQUENCY IS LOW	As shown on left.
QNM	*	YOU ARE QRMING THE NET. PLEASE STAND BY	As shown on left.
QNN	-	NET CONTROL STATION IS..... WHAT STATION HAS NET CONTROL?	As shown on left.
QNO	-	STATION IS LEAVING THE NET	As shown on left.
QNP	-	UNABLE TO COPY YOU (OR .....)	As shown on left.
QNQ	*	MOVE FREQUENCY TO..... AND WAIT FOR..... TO FINISH HANDLING TRAFFIC. THEN SEND HIM TRAFFIC FOR.....	MOVE FREQUENCY TO..... AND WAIT FOR.....
QNS	*	FOLLOWING STATIONS ARE IN NET or REQUEST LIST OF STATIONS IN NET.	As shown on left.
QNT	-	LEAVING NET TEMPORARILY (OR FOR ..... MINUTES)	As shown on left.
QNU	*	THE NET HAS TRAFFIC FOR YOU. PLEASE STAND BY.	As shown on left.
QNV	*	ESTABLISH CONTACT WITH..... ON THIS FREQUENCY. IF SUCCESSFUL..... MOVE TO..... AND SEND HIM TRAFFIC FOR.....	ESTABLISH CONTACT WITH..... ON THIS FREQUENCY, THEN QSY TO A SELECTED FREQUENCY AND RETURN TO NET WHEN FINISHED.
QNX	*	YOU ARE EXCUSED FROM THE NET or REQUEST TO BE EXCUSED FROM THE NET.	As shown on left.
QNZ	-	ZERO BEAT YOUR SIGNAL WITH MINE.	As shown on left.

### Notes on QN Signals.

1. The QN signals listed above are special ARRL signals for use on amateur CW Nets only. The meanings that may be used in other services do not apply.
2. Some QN signals are for use by Net Control stations only; these are marked with an asterisk (\*). Others have slightly different meanings when used by the NCS and Net stations, in this case, the meaning when used by NCS is shown by (\*).
3. QN Signals should be supplemented by use of the normal "Q" Code signals and should only be used on Net frequencies.

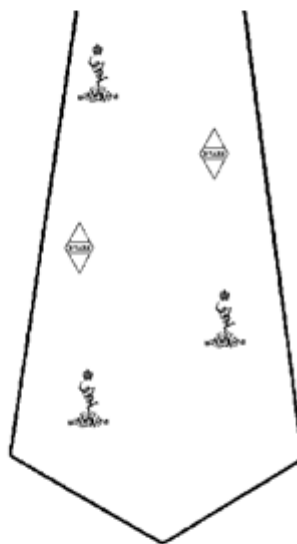
00000-----00000

### SOCIETY TIE

There has been some little disappointment in the delivery dates for the Society tie and the first order will not be ready for delivery until late June - and then you can never tell!! But the design has been settled and the "rough" looked extremely neat and tidy. The tie is made in "Crimpolene" material and is dark blue (our normal dark blue Corps colour) with "Jimmy" in gold and the Society badge in Corps colours with RSARS in gold. The motif layout is a pair of "Jimmy"s and a pair of Society badges alternately from top to bottom with each pair placed diagonally from bottom left to top right.

The cost is 25/- plus 6d P&P orders to:-

HQ Secretary - QTH see inside front cover.



### **RSARS LAPEL BADGE**



Each badge - 2/6 inclusive of postage

Your callsign can be added beneath the badge for an extra 5/- incl.

Orders to G3EKL at Blandford



## RSARS OPERATING AWARDS

1. The following RSARS Operating Awards are available free of charge to ordinary and associate members and to clubs affiliated to the Society, with effect from 1 Jan 69.

Class 3	-	Certificate
Class 2	-	Certificate
Class 1	-	Certificate
Special Award	-	Engraved Plaque

2. Transmitting members located at "Home" (defined below) must submit confirmation of two way contact with other member stations, including G4RS, as follows:

Class 3	-	25	Confirmations
Class 2	-	50	Confirmations
Class 1	-	100	Confirmations
Special Award	-	200	Confirmations

3. Listener members located at "Home" (defined below) must submit confirmation of having heard transmitting member stations as in para 2 above.

4. Transmitting members located "Overseas" (defined below) must submit confirmation of two way contact with other member stations, including G4RS, as follows:

Class 3	-	12	Confirmations
Class 2	-	25	Confirmations
Class 1	-	50	Confirmations
Special Award	-	100	Confirmations

5. Listener members located "Overseas" (defined below) must submit confirmation of having heard transmitting member stations as in para 4 above.

6. "Home" member stations are defined as those located in the UK and continental Europe, excluding Gibraltar, Malta and Islands in the Mediterranean (Zone 14, excluding Gibraltar, the Azores and Islands in the Mediterranean and Zone 15 excluding Malta and Islands in the Mediterranean).

7. "Overseas" member stations are those located outside the "Home" area as defined in para 6 above.

8. "Home" members who move "Overseas" may NOT count any confirmation gained at "Home" towards the Awards at para 4 and 5 above.

9. "Overseas" members who move "Home" may count any confirmations gained "Overseas" towards the Awards in paras 2 and 3 above.

10. Contacts between member stations operating /A or /P will NOT count for any award purpose, except for those Affiliated Club stations which do not normally operate from their static locations e.g. T & AVR units when at camp/exercise etc.).

11. Member stations operating from other call areas on a temporary basis within the terms of any licence will count separately e.g. DL4ZZZ/LX, G7ZZZ/HB etc.

12. Members will ensure that operating practices are maintained to the highest standards. Unassisted two way contact must be made between the stations concerned,

Relaying of reports by a third station is not permitted for Award purposes. Terms of licences must be strictly observed, and members who are granted temporary licences for operation in other countries may be asked to submit proof of authorisation to the RSARS.

13. Members are required to exchange signal reports, membership numbers, names and QTH to qualify for confirmation of contact.

14. Claims for Awards will be made to the Awards Manager only, whose details are published below.

15. Claims for awards must include the following:

- a. Written confirmations (e.g. QSL Cards)
- b. A check list of the Call Signs and Membership Numbers.
- c. S.A.E. with adequate return postage.

16. The Awards Manager will retain the check list, returning the confirmations and the Certificate awarded to the member, which will be forwarded under separate cover.

17. Subsequent claims need not include the previous confirmations.

18. The Awards Manager will submit the checked Claim lists from members claiming the Special Award to the Field Secretary who will order and dispatch as necessary. The Claim list will be returned to the Awards Manager.

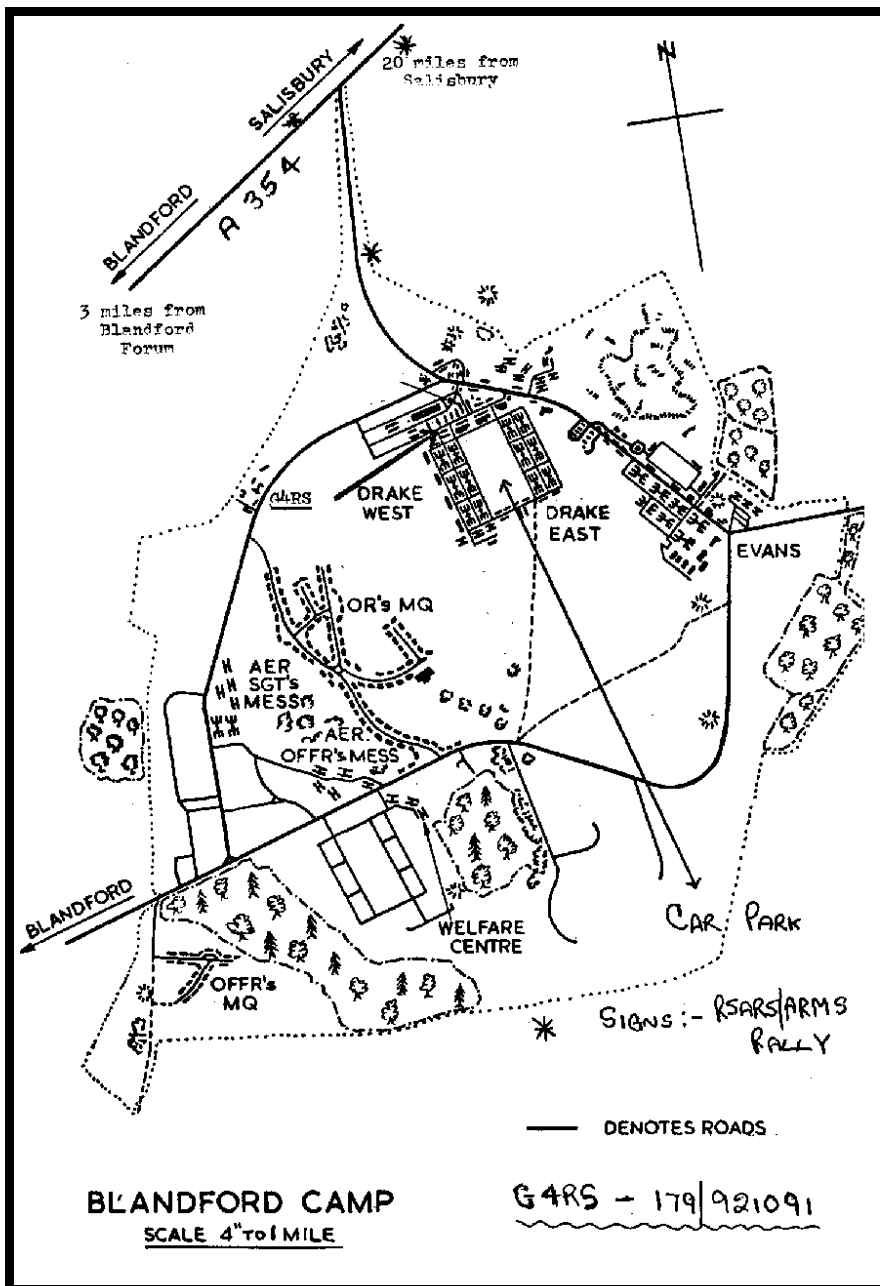
19. Contacts for the RSARS Operating Awards are effective from 1st January 1969 ONLY.

20. Claims for Awards on the previous Scheme, which ceased as at 31st December 1968, may still be sent to the Society Awards Manager.

**AWARDS MANAGER:**

G3VIS  
"Heather Lea"  
12 Linton Rise  
CATTERICK CAMP  
Yorks.





OTH AMENDMENTS AND/OR NEW MEMBERS



No.	CALL SIGN	N A M E	A D D R E S S
13		E.J. Walke	13 Southbrook Place, Micheldever, Winchester, Hants.
55	G8BEI	W. Wynn	WOs & Sgts' Mess, Army Aviation Centre, Middle Wallop, Hants.
102	GM3AWF	D.F. Craig	13 Clifford Road, North Berwick, East Lothian.
116	9V1PF	J. Rayment	249 Signal Squadron, c/o GPO Singapore.
123	G3YBT	C. Harvey	TE A3-1, 1 Squadron, 8th Signal Regiment, Catterick Camp, Yorks.
136	G3NXM	W.G. Borland	10 Ashfield Drive, Baildon, Shipley, Yorks.
142	ZC4HS	H.A. Sankey	262 Signal Squadron, BRITISH FORCES POST OFFICE 53
143	G3ADS	R. Sawkins	21 Newcome Road, Heath End, Farnham, Surrey.
170		P.L. Maloney	Rhine Company, R.M.A. Sandhurst, Camberley, Surrey.
181		L.A. Woods	School of Signals, Blandford Camp, Blandford Forum, Dorset.
185	G3DNF	Dr.G.J. Bennett	52 Whinmoor Crescent, Red Hall, Leeds, 14
210	GM3VNN	T.L. Craze	Armd Forces Signal Regiment, c/o Kuala Lumpur, Malaysia.
219		B.C. Complin	CD & Trials Wing, School of Signals, Blandford Camp, Blandford Forum, Dorset.
232	G3XHJ	W. Robinson	15 Infirmary Road, Chesterfield, Derbyshire.
240	G3NDJ	C. Delhay	58 Balsdean Road, Woodingdean, Brighton, BN2 6PF, Sussex.
249		R.S. Worton	3 Meadow Hill Drive, Hawkes Green, Cannock, Staffs.
261		Kay D. Hitchen	Flat One, T & AVR Centre, Wallsidon Road, Parkstone, Poole, Dorset.
286		D. Hitchen	Flat One, T & AVR Centre, Wallsidon Road, Parkstone, Poole, Dorset.
315		M.S. Foster	665 Signal Troop, 2R.I.R., Lathbury Barracks, Gibraltar,
323	G3EDW	P.R. Colledge	1 Pullen's Row, Witheridge, Triverton, Devon.
357	G8CDQ	D. Fry	c/o 15 Tyne Close Terrace, Penrith, Cumberland.
371	G3AKF	B. Taylor	13 Weatherbury Way, Dorchester, Dorset.
379	DL6AA	H. Fleer	4791, Ostenland, 496, West Germany.
385	VS6FX	R.H. Joll	11A Hon Garden, 146 Argyle Street, Kowloon, Hong Kong.
390		N.M. Campbell (WO 1)	Transport Branch, HQ Northern Ireland, Thiefval Bks., Lisburn, Co. Antrim, N.Ireland
391		M.J. Buckley	OC 145 Company A.C.F., 62 Ballards Way, Croydon. CR2 7JN

□

No.	CALL SIGN	N A M E	A D D R E S S
392	G3VDF	H. Gregory	24 Lucknow Drive, Sutton-in-Ashfield, Notts.
399		F.W. Atkinson	161 Admitt Road, Northampton, Northamptonshire.
401	DECEASED		
403		M Ridlington	24th Signal Regiment, Catterick Camp, Yorks.
404		R. Budd	20 College Road, Blandford Camp, Blandford Forum, Dorset.
409	G3BA	T.P. Douglas, MBE	141 Russell Bank Road, Four Oaks, Sutton Coldfield, Warwicks.
411	G3UZL	F.A. Cook	120 Hulham Road, Exmouth, Devon.
419	G8AUV	B. Ford	Workshops, School of Signals, Blandford Camp, Blandford Forum, Dorset.
420	MP4TCM	E. Speller	73 Field Squadron, R.E., BRITISH FORCES POST OFFICE 64.
424	G8CIX	M.G. Maynard	46 Redbridge Lane West, Wanstead, London, E.11.
425		D. Hirst	640 Squadron, 30th Signal Regiment, Blandford Camp, Blandford Forum, Dorset.
426	G3XUR	C.T.C. Foster	46 Laxton Road, Taunton, Somerset.
427		J. Irwin	61 South Crescent, Blandford Camp, Blandford Forum, Dorset.
428	G3NQT	R.J.H. Levi	9 Goldings Rise, Loughton, Essex.
435	ZC4IM	I. Morris	FSS Cape Greco, Ayios Nicolaos, BRITISH FORCES POST OFFICE 53.
451	9M2PO	G.H. Foster	9 M.S.Q., T & AVR Centre, Llandaff North, Cardiff. CF4 2HX.
466		B.W. Thomas	2 Squadron, 14th Signal Regiment, Worcester Road, Droitwich, Worcs.
469	9H1BE	H.V. Whenman	2 Silvano & Lydia Flats, Congress Road, Mosta, Malta G.C.
470	DL5ZF	J.R. Grigsby	225 Signal Squadron, BRITISH FORCES POST OFFICE 33.
484	G3FNK	C. Drinkwater	29 Eaton Avenue, Bletchley, Bucks.
502	G2AUA	W. Bigley	17 East Square, Shortstown, Bedford.
504		T.M. Harrison	Royal Signals Troop, HQ Bty., 39 Missile Regt RA., B.F.P.O. 16.
508		M.J. Clapham	Royal Signals Troop, HQ Bty., 39 Missile Regt RA., B.F.P.O. 16.
548		J.M. Cliff	Royal Signals Troop, 3rd Light Inf., Seaton Barracks, Plymouth, Devon.
AFF5	G3SIG		92 Signal Regt, ER., c/o G3XTL
AFF6	DL5YQ		"QRZ Club", 32 Armoured Engineer Regiment, BRITISH FORCES POST OFFICE, 30.
AFF41	VS6AC		252 Signal Squadron, BRITISH FORCES POST OFFICE, 1.