

THE WIRELESS INSTITUTE OF AUSTRALIA

TASMANIAN DIVISION

BOX 851J, G.P.O., HOBART

May 1964

MONTHLY BULLETIN

PRICE 6d.

PRESIDENT

Mr. T. Allen
VK7AL

TREASURER

Mr. J. Dore
VK7JD

SECRETARY

Mr. K. Spiegel
VK7KS

Registered at G.P.O., Hobart, for transmission by post as a periodical.

GENERAL MEETING

The next monthly meeting of the Division will be held in the Club Room, 147 Liverpool Street, Hobart on Wednesday 6th. May 1964 . at 2000 hours. The lecture will be "Launceston Melbourne Micro Wave R.T. System ". Your Lecturer this month will be John Macey,

NORTHERN ZONE

The next meeting will be held on Friday, 8th. May 1964 at 2000 hours, at 102 Charles Street, Launceston. I believe that the Lecture will consist of a taped talk and slides by Bryan Eyre, VK7ZBE,.I can personally recommend that the slides coupled with Bryans comments will make a very enjoyable evenings entertainmat.

NORTH WESTERN ZONE

The usual monthly meeting will be held in Lakin's Hall, Ulverstone, on Tuesday, 5th. May 1964. at 2000 hours.

V.H.F. GROUP.

The Annual meeting of the V.H.F. Group will be held at the Club Rooms 147 Liverpool St. on Wednesday, 20th. April at 2000 hours. Election of Officers and a general chin wag will be the agenda for the evening. Come along or get dubbed in for a job !!!

COUNCIL MEETING

The usual Council meeting for May will be held in the Club Room on Monday 18th. May , at 1930 hours.

COMMENT (by Hon. Ed'.)

I wont apologise for this months Bulletin being a little undernourished - if you want a Bulletin really worth while, write me some news of Divisional interest and I will type it. Please take note Zone Secretaries ! My address is 148 Derwent Av., Lindisfarne. Also please let me know by the third Saturday of the month. May I extend thanks to VK7AL, VK7KA, VK7BJ, VK7ZZ, VK7ZAS , VK7ZAQ, and the "Voice" VK7ZAV for their assistance in the publishing and distribution .

SUBSCRIPTIONS -

Subscriptions received since April Bulletin to 15. 4. 64.

Acknowledgements and thanks to the following ; VK7ZAQ; VK7IL; VK7ZJG; VK7ZOO;
VK7YY; VK7RX; VK7JD; VK7ZAT; VK7EB; VK7ZAI; VK7ED; VK7ZAA; VK7LE; VK7MK;
VK7JB; VK7ZW; VK7RK; VK7ZBR; VK7SF; VK7BB; P. Duncan; J.M. Kerr; C.G. Waldon;
A.L. Beaumont; J.E. Humble; R. Stranz; M. Hooper; L. Jacobson; B.P. McCafferty;
R. deBalfour; J.R. Darling; H.P. Schulz; R.G. Shorthouse.

I can promise you one thing chaps, and that is I won't bother you with moans and reminders about the non paying of Subs. in next months Bulletin. Those who have not paid by the next General Meeting will be struck off the A.R. distribution list. We have published receipts for this month - unpaid members next month!!!!

Council Notes by VK7ZAS.

Election of Officers - President T. Allen (5th. term)

Vice Presidents - T. Connor; I. Nichols.

Secretary - C. Spiegel; Min. Secretary - D. Berry (ex officio).

Bulletin Editor - E. Beard; Technical Editor - G. D'Enden.

Vacancy due to the resignation of C. Harrison - T. Dore elected.

Treasurer - T. Dore. Distribution Committee - K. Millen ; J. Brown.

Minutes of the last Council Meeting read and confirmed.

Business- Ratification of the amended Federal Constitution.

Application for membership - G. Power; B. McCafferty, passed for submission to General Meeting.

Wanted to Buy - A 2API, 5BPI or VCR97 (with shield if possible and in the listed order of preference. A Power Transformer 410 - 0 - 40 Volts @ 180 mA. (approx) with 6.3 V and 5 Volt tapings also a 10 H @ 180 mA. Please reply to D. Ford
Tianna Rd. Lindisfarne. Phone 98406.

Athol Johnson Memorial Trophy

Congratulations are extended to VK7ZAH? K. Honricks in obtaining the highest score in the above mentioned Contest.

Would anyone who anticipates visiting VK3 with a vehicle please advise the disposals Committee - the reason, obvious.

TECHNICAL by Ken Wheeldon.

A Simple P.N.P. Transistor and Diode Tester.

All parts for this instrument can be easily obtained from the " Junk Box ".
The main use of this instrument is to measure the leakage Current and the Gain of the Transistor.

There should be an appreciable difference between leakage and Gain readings.
Leakage is measured in micro Amps. For a good Transistor the leakage current should not exceed an absolute maximum of 100 uA. the lower this reading or current , the better.

Leakage Current will be, or should be, negligible , and can possibly be seen by operating the ON - OFF switch. Should the leakage current be excessively high, transistor is faulty.

Gain is measured in milliamps x mult. factor : mult. factor = $\frac{\text{Voltage}}{\text{Base Resistor}}$

In the case of the circuit given, the base resistor is 100k ohms and the voltage 3volts. By applying the given values, using the above formula we get 33uA; therefore the multi fact. in this case is 33.

Therefore, if 3mA is shown on meter x multi. factor (33) = Gain

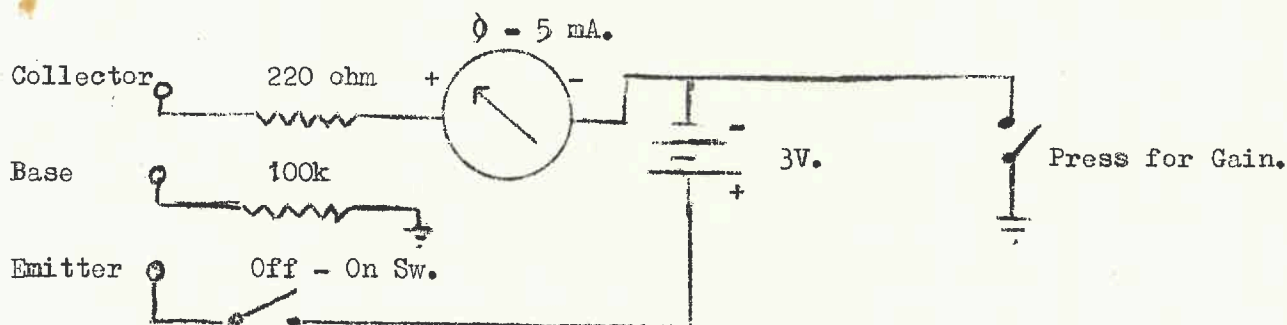
$$\text{Gain} = 33 \times 3 ; \text{Transistor gain} = 99.$$

The gain of a Transistor is measured while gain button is pressed.

Should the gain of a transistor be greatly down on the quoted value in the Data book, the transistor is to be suspected. But, bear in mind, transistors of identical types, may vary in characteristics.

To test a Diode, connect Cathode to Collector terminal, and Anode to Emitter terminal and switch on. If Diode is O.K., current will flow, and with reverse connections current will not flow.

NOTE. To test N.P.N. Transistors - Reverse 3 Volt battery.



COMPONENTS :

3 Spring Terminals ; 100k $\frac{1}{2}$ W.5%; 220 ohm $\frac{1}{2}$ W. 5% ; 0 -5 mA. meter;
SPST Switch; Press Switch; 3 Volt Battery (Cycle type).

The April V.H.F. Group meeting was held on wed. 15th with 19 members present. Bryan, 7ZBE, ex VKOBE who has just returned from Antarctica, presented a colour-slide lecture on his adventures in the deep South. Those present enjoyed a very interesting evening. Bryan's lecture was recorded; the tape and slides will be circulated to other Zones.

1964 Athol Johnson Memorial Contest

This was won by Kevin, 7ZAH. Congratulations, Kevin; it was good to see the trophy taken out of the Southern Zone for the first time. This should give added interest to future Contests.

Band Activity

52 MC/S

The long awaited change from 50 to 52 MC/S took place on April 1st. So far in the South, Phil, 7ZAX is the only one to change to the new band. No doubt others will follow when xtals are reground etc..

Otherwise nothing to report on.

144 MC/S

A new station on 2 mx in Hobart is Tom 7AL, on 144.7. Welcome to 2 MX Tom. Bryan, 7ZBE has reappeared on the band after his return from VKO-land. Welcome back Bryan. Activity in Hobart has dropped off a little of late, but is still at a good level. No DX has been heard or worked from the South in the last month. I believe Rick, 7ZAT has built a new rig, but I have no details.

73 till next month, Wilf, VK7ZAA.

NORTH WEST ZONE NOTES by the Voice.

During the Easter break, the 2 mx band was open several times; Bob, 7ZAA, and Kevin, 7ZAH being active. Kevin was lucky enough to work a VK5 as well as the VK3s during this period. The following Thurs. evening VK5 sigs were heard by Winston Nickols whoduly notified Bob and myself. Winston was copying VK3s at 5/9 by this time; and at last they became audible at this QTH, peaking at best 5/7. Bob worked 6 at around 5/7-8, but try as I might I could not raise any. Afraid the Voice ain't wot he used to be! As a result the modulation on the 522 has been improved by the addition of a 12AX7 preamp.

The associate members in this area are sweating madly for the AOCP exam coming up shortly. Kevin, 7ZAH, just about has his mobile fired on 2 mx; and Bob 7ZAA is deciding which box out of his collection to build his in, so should have a mobile signal from him shortly also.

During the past week or so, a couple of weak sigs have been heard from the North and the East; but in both cases nothing identified.

N.W. Zone Gen. meeting.

At the last meeting it was learned that Basil, 7BL, is off to Canada later in the year, and will be settling for good if he likes it there. Basil will be a loss to the Zone, but a gain to Canada. We wish you all the best in your venture Basil. Charlie, 7CH was at the meeting also; so the South was well represented, with Reg, 7ZAO, and myself there as well. A good time was had by all.

As far as I know that is all for this month, chaps as I could not raise my spies on 2 tonite.

73 till next month, Mike 7ZAV (The Voice)

Northern Zone Notes, by Leigh Pretty.

7BQ and 7RL are now on 432 MC/S, and have exchanged 5/9 reports both ways. Although the gear is still in the testing stage, the band shows promise for local working.

144 MC/S

A good opening occurred on Good Friday night, the following stations being active; 7ZAA, 7ZAH, 7ZEC, 7BQ, 7DK, 7LZ and 7RL. The VK3s were in till after midnight, and no signal reports were less than S6.

The 7WI rebroadcasts and slow morse, which have temporarily ceased, due to the absence of 7DK, will resume again shortly.