

BREAKOUT

The Newsletter of the Hastings and Napier Amateur Radio Clubs

Hastings Branch 13 NZART – Napier Branch 25 NZART

Volume 22, Issue 4, April 2022



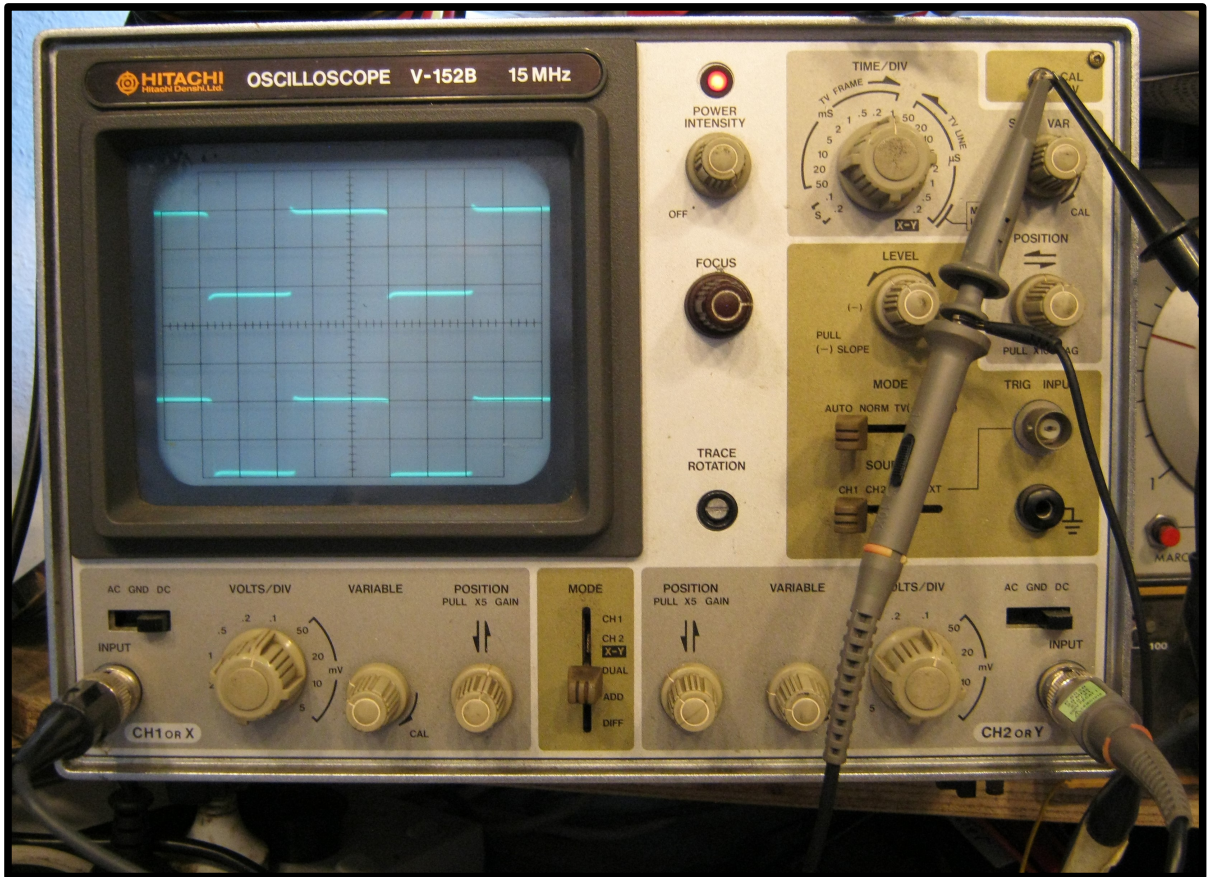
Hastings Br
13
Club Calls
ZL2AS
ZL2QS

Napier Br 25
Club Calls
ZL2GT
ZL2G

IRLP
Node
6793
147.250

Branch's
13/25
Net
9.00 AM
Sunday
Morning
670
Repeater

Editor
John Newson
ZL2VAF



It is alive! Check out the final part of Eric ZL2TSU's article inside

<http://www.zl2gt.nz/>

<http://www.zl2as.org.nz/>

Emergency Call-in Frequencies: 3615khz and 670 repeater



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Committee Meetings: 7:30 pm, 3rd Tuesday of January, March, May, July, September, November

Club Calls: ZL2GT, ZL2G

Club Web Site: <http://www.zl2gt.nz/>

Club Nights: First Wednesday each month (except January) 7.30pm at the Club Rooms: 123 Latham Street Napier

Napier Amateur Radio Club Branch 25 NZART

Well, selling up for a move to a retirement village has it's moments, selling towers and ham equipment is an interesting experience, what to keep? What to get rid of? In the end, I have kept an FT-991 and Power Supply and all my work on mag loops will come in handy, I'll also put some VHF and UHF aerials in the bag. I am considering a portable 1296 EME system with a collapsible dish antenna and the transverter that no one seemed to want, we'll see how that all develops.

The last few meetings have been cancelled, and hopefully we can get back to normality soon.

Errol ZL2IT has been working on his projects as usual, and has a couple of simple projects that could potentially be club projects, we can discuss these at a future meeting.

Don't forget the equipment being held at the Clubrooms, I have added a few more items that will probably go for a gold coin donation. Anyone wanting to peruse this gear can call a committee member and make a time to go look at it. Perhaps we can form a group to cart the excess to a Junk sale if no one locally wants any of it

The next meeting (if held) of Branch 25 will be at Latham Street Club Rooms on 4th May 7:30pm all welcome.

That's all for now, let's hope we can have the next meeting!

73 Dave ZL2MQ

HASTINGS BRANCH 13

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Club Call:	ZL2AS and ZL2QS		

Club Nights: Fourth Wednesday each month at 7.30 pm Pakowhai Hall, Pakowhai Road, Pakowhai

From the top table

Well here we are again a quarter of the year gone and Covid still with us. I'm sure things are getting better on that front and as yet I have been covid free. the other day I went and had my flu jab which I get every year as I'm sure it does work and helps to keep the bugs away.

I have been working a lot of HF lately and the bands are in very good shape at the moment. 10 and 20 have been really good, 40 has been good at night as well and to top it all off my log book has gotten a lot bigger in the last 3 weeks. I have now have four new countries as well. From what I have been hearing the bands will get better and open up even more.

We are going to have a physical meeting this month but please remember to stay apart and bring your mask but we do not ask you to wear it all the time, if you feel ok to keep it off your choice.

Boy oh boy have I had a hell of a morning with hams ringing me and coming around worried that they have to change there call sign from ZL to AT. I can't speak on this as I have not seen the story but if this is so I don't like it one bit. Maybe it is someones idea of an April fools joke who knows but if it is so the joke is on them.

For those of you that don't know there is already a big club in Italy and around the world run by the CBers that use the AT for the start of their call signs, imagine the confusion this may cause. What happened to NZART asking hams for their views on this first and putting it to the vote of all branches and paid up members of NZART? My other question to them is what have they done and why do we have to find out via the Break In mag and why has nothing been sent to all the branches for a vote on this matter or are we being told to comply by the RMS?

Well enough of that lets sit and wait and see what happens but not push it under the carpet. If we are not happy with this we as hams have to stand up for each other and say NO to AT but yes to ZL. I for one will not use AT in my call till I get a letter signed by the Minister stating for me to use AT.

Well I have ranted enough so I will stop there and say I hope to see a lot of you on Wednesday night or talk to you on air so till then stay safe keep well.

Blue ZL3TT President Branch 13 HBARC



*Branch 13/HBARC, Hastings, office bearers,
David Walker ZL2DW (Secretary),
Blue Smith ZL3TT (President),
Peter ZL2HM (Treasurer).*

OSC PART 3

Well something happened last month with my rambling thoughts. The internet ran out of ink or something, So this is the missing half. A special thank you to Ian for sending me a circuit. So we pick up the ramble again.

We had no signal at the outputs , so somewhere between where I found a saw-tooth wave from and the output is where the problem is.

Now this part of the circuit are all transistors , so working around the three leg's, we see what you can find. You don't need to know which leg is which , you can tell from the readings so on we go. A wander around I found something that looked odd. Something on one pin, of a transistor , and nothing on the others . A check on the other side I found two transistors beside each other, both with the same looking components around them. These look like where the saw-tooth splits to feed the two output transistors. Two resistors (very small) caught my eye. The multimeter said 100 volts on one side and nothing on the other on both of them. These must be collector feed resistors.

If you refer to (fig 3) you'll find the 2 resistors inside the black circle as per photo. The big ones to one side are there replacements. Now these are 5 colour code resistors.

Now I can read three colour code resistance; I can understand body, end, dot colour code resistors, not a problem. On 5 colour resistors I have no idea. With 5 colours , I can not tell one end from the other, I have no

idea which end is the start end. My digital multimeter is a basic one and only goes up to 2 M-ohm's. I do have an old original FET multimeter (fig 4) back from a few years ago. It'll do up to 150 M-ohm's see photo as not on google . They said both resistors were open circuit, oh dear . Hop into the car, rush down to my electronic shop and ask for help . The young boy there looked at them, turned them around and looked again. Then he went to his computer system, looked up the colours, to see what they read. Now I am standing there thinking, "now why didn't I think of that ? " I could have done this at home . The young lad came up with 157000 ohms.

Back home , I rummaged around my resistors to find a replacement . Now these are tiny one's, drop them on the floor you can not see then. I have pulled out some good old one's , if you dropped them on the floor not only could you see them you could trip over them . See (fig 3 again). I like old stuff, there is room inside to fit different parts inside. Soldering them in switch it on and bingo up it came.

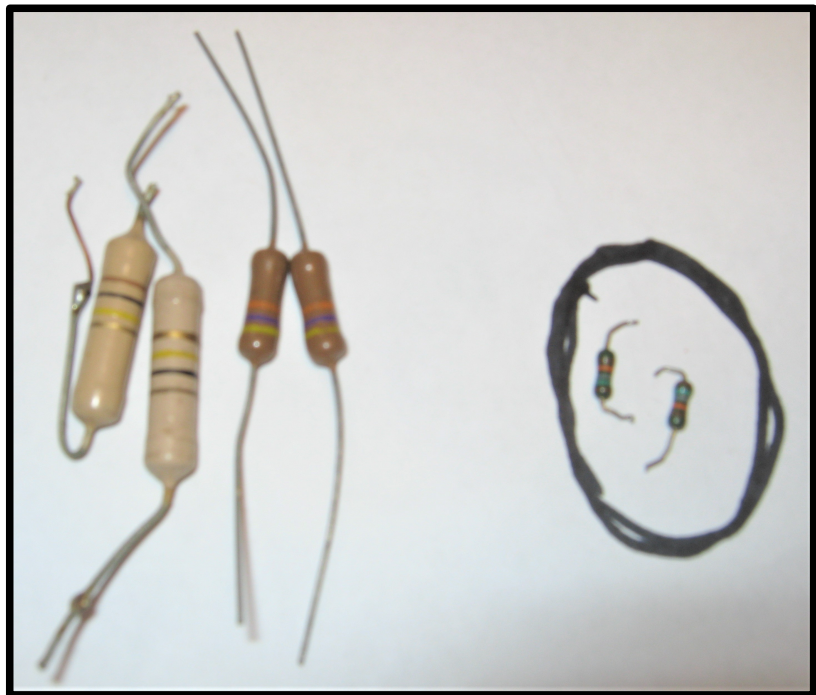


Fig 3

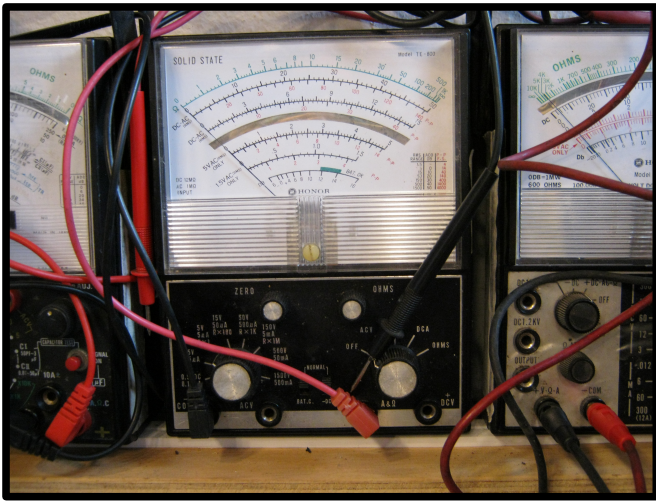


Fig 4

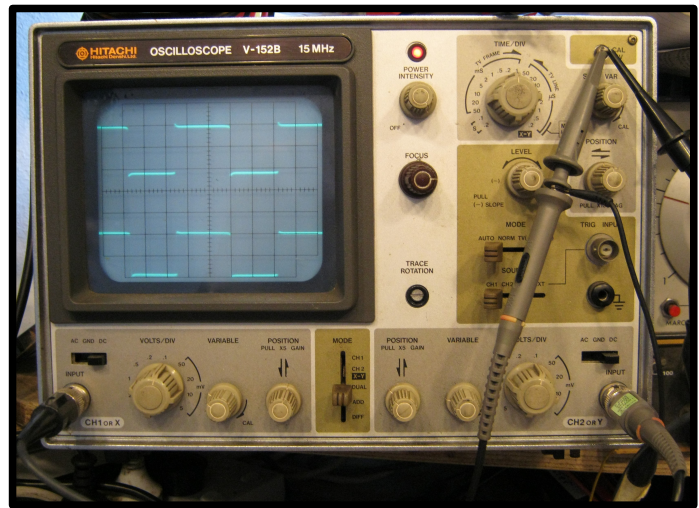


Fig 5

Now you know that I said "Do not solder around madly"! "It can go south real quick"! And so it came to pass. I had NO sync from the video input to the time-base board. Heat up the solder iron, put on the glass's get out the solder sucker and solder wick and start again. Remove the solder from where I have been and do it all again. Scratch around to clean off the rosin. And now I have cleared the short. We have a working scope. Refer to fig 5.

Now why did do it? Two days work! 7 hours time.

- 1 Hey I spent good money for this oscilloscope \$10.
- 2 This is the best oscilloscope that I have ever owned, it may be old but it's good one.
- 3 As Sir Edmund Hillary said after climbing Mount Everest. "I knocked the bastard off"

Hopefully this is the last of the saga, But the thing I know is "That I can't tell the future." Some times in electronics these things come back to haunt you, sometimes in repair you take the long way round.

But I'm off back in side for a coffee and bickie.

73 Eric ZL2TSU



Next Branch 13 Meeting

the next meeting of Branch 13 is to be held on Wednesday 27 April, 7-30pm, Pakowhai Hall, all welcome.

At the meeting we will be addressed by NZART Councilor, Warren Harris ZL2AJ. He will talk about the reasoning behind the remit coming up regarding NZART Councilor numbers etc (see the remit elsewhere in this newsletter). Remit voting is expected to occur at our May meeting.



For your consideration

Proposal.....combined (Branch 13 and 25 and visitors) mid year Xmas tea on 24 June, 6pm, venue undecided at the moment. Lets talk about this on 27 April and get your consensus (input from both Br 13 and 25 members required please). Contact David ZL2DW 0274 502501 or via email.

For Free. A restorer's challenge.

Revox A700 Reel to Reel Stereo Tape Recorder.



<https://www.revox-online.de/en-gb/studer-revox-a700>

They were first manufactured in the early 1970's meaning that the electrolytic capacitors are most likely all dried out by now and will need replacing. Recent Googling has revealed sites offering capacitor sets, other spares and alternatives such as a drop-in LED replacement for the analogue VU meters.

<https://nagravox.com/>

I don't know when it was last used.

I saved it from the tip a couple of years ago, tucked it away and only recently have un-tucked it for review. As a restoration project, it's probably beyond me.

Nevertheless, there may be someone out there that could again save it from the tip (or recycling). It weighs 27kg and that may even be heavier than a ZC1   meaning freight may be a problem.

For Sale

2 x Sony ECM – 18N Electret condenser microphones and bases

Sansui SS50 2-way 4- Speaker Stereo Dynamic Headphones (800g)

8 x Maxwell 10.5" unused ¼" audio tapes sealed in original packing

1 x Kenwood TS 430 HF Transceiver

1 x 230/24 volt 0.5 kVA transformer

1 x TAIT 12 Volt 6 Amp Power Supply

1 x Foot operated switch

1 x FT Meter (FT857 Accessory)

1 x MFJ 918 Balun

1x MFJ 1020 Active Antenna

1 x MFJ 941C Versa Tuner

1 x bhi Compact In Line Noise cancelling device (see <https://www.bhi-ltd.com/>)

1 x MX72H Duplexer (1.8 - 225 and 340 - 1000MHz)

1 x Microwave Handbook (3 volumes) Published 1992 by RSGB.

1 x Paterson Universal Film Developing Tank (and a few other bits for your Darkroom)

1 x VLF Converter see

<https://www.ebay.co.uk/itm/283914060263?hash=item421a98c1e7:g:ej4AAOSwaspe5feG>

1 x 80 meter DF Loop AE

1 x 7 section fibreglass mast.

Contact Mike ZL2VM with your offer at zl2vm@nzart.org.nz

Freight costs will be additional



HB Car Rally 2022

Call for volunteers for the Car Rally to be run on Saturday 23rd July. We are in need of volunteers to fill the roles required for us to provide communications for the Rally.

If you are available please contact John ZL2VAF 027 230 3642 zl2vaf@gmail.com

Amendments to 5.2 Banking, Borrowing and Account Signatories

- a. The banking of the Association must be with the banking concerns from time to time nominated by the Executive Council.
- b. All moneys received by or on behalf of the Association must be paid promptly into an NZART account/s and any electronic transactions drawn on accounts must be approved by any two of the three authorising signatories on NZART bank accounts.
- c. The Executive Council may, with the prior approval of a general meeting, borrow money for the furtherance of the objects of the Association, and may secure repayment of that money by a security over the whole or any part of the Association's property or assets, both present and future, provided that the Executive Council may, for good reason and without the prior approval of a general meeting, approve borrowing on overdraft from the Association bankers a sum not exceeding one-fifth of the Association's subscription income for the then current year.

Explanation:

This remit is to remove any reference to the word *cheques*. As at December 2021, no bank in New Zealand now accepts cheques as form of payment.

An additional tidy up of the wording 'to remove other forms of banking' as all banking is now done electronically or online via Internet banking without the need for physical forms. NZART operates various bank accounts that all require at least two signatories before any funds can be withdrawn for payment of bills, invoices or other costs incurred when operating the organisation. Proposed by NZART Council

Remit 2 – Council reduction in committee members – Transmitting

At the Napier Conference in 2021, NZART Council presented several options to reduce the number NZART Councillors.

The AGM agreed that the current NZART Council discuss and prepare a remit for the 2022 AGM based on their findings.

NZART Council believes that this is the best option to take forward and is now presenting this remit at the Wellington 2022 Conference

Council recommends to NZART membership that the number of Councillors be reduced to five persons in total:

Why?

- Because nine councillors are too many. Having this number creates issues with attendance at meetings.
- Because Council vacancies are hard to fill should no-one be nominated
- Because shoulder tapping councillors is perverse and undemocratic.
- Because lack of elections is unhealthy
- Better to have quality over quantity
- Because five councillors and the president can do the work required for NZART.

Additional considerations were given to potential questions from members, with some suggestions on how to overcome these issues:

- Branch visits can still occur using digital technology such as Zoom at branch meetings.
- What if there is no councillor elected in my island? If you are really concerned about being visited by council - nominate one of your members to stand

The following clauses are to be amended, removed or reworded.

Clause 3.1 - Control of the Association:

Amend wording clause 3.1 a iv

iv. Five Executive Councillors with a minimum of one Councillor who resides in the North Island and one Councillor who resides in the South Island. If there is no nominated candidate from one of the Islands, then the five Executive Councillors may reside anywhere in New Zealand.

Remove of Clauses 3.1 a v, vi and vii

Reason – Removes four councillor electorates and establishes one NZ wide electorate with a North Island and South Island representative

Remove clause 3.1 b.

Reason – No electoral boundaries exist for members outside of the four electorates.

Clause 3.5 - Quorum of Executive Council Meetings:

Amend wording clause 3.5

3.5 Four members of the Executive Council present in person or by a suitable audio or audio and visual communication medium as provided for in paragraph 3.4 b. constitute a quorum for the conduct of Executive Council business.

Reason – adjusted quorum from five to four to account for the smaller size of the executive.

Clause 3.7 - Vacancies on the Executive Council

Remove clause 3.7 d iv

Re-number clauses 3.7 d v and 3.7 d vi to 3.7 d iv and 3.7 d v respectively

Reason – no need to vacate office if moving between electoral boundaries.

Amend wording of Clause 3.7 e

e. Any vacancy so created is a casual vacancy and the position is to be filled by the unsuccessful candidate from the immediately prior election with the next highest votes. If the candidate is unable to take up office, the next unsuccessful candidate shall be offered the role. Where no candidates are available to take the position a member eligible for the office may be appointed to fill the position until the next executive council takes office. Any executive position not filled at an election is deemed a casual vacancy under this clause.

Reason - New method of dealing with casual vacancies - next highest polling candidate gets first right of refusal.

Add new clause 3.7 f

f. For the avoidance of doubt, if a councillor relocates residence to the other island they may continue to serve their term.

Reason – no requirement to vacate office due to moving between islands.

Clause 7.2 a – Attachment of members to Branches:

Amend wording to clause 7.2 a.

7.2 a The General Secretary must, upon enrolling a person as a member, attach the member to a Branch of the Association of the member's own choice, and no member is to be so attached to more than one Branch.

Remove Clauses 7.2 b 7.2 c

Renumber Clauses 7.2 d and 7.2 e to 7.2 b and 7.2 c respectively

Reason – attachment to branches no longer needs to follow electoral boundaries.

Clause 10.2 – Referendum:

Amend wording to clause 10.2 a

10.2 a At the request in writing of any two hundred financial members, of who one hundred or more must not be from any one branch, the Executive Council may submit any matters detailed therein to the members who would be entitled to vote thereon as if the matters were before a general meeting and is to conduct a poll thereon to take the general opinion of members. The results of the poll are not binding upon the Executive Council unless the proposal submitted is approved by more than one half of the members.

Reason – Reworded to account for the lack of electoral districts.

Schedule A - Election Procedures

Amend wording to clause b

b. Every nomination to an elective position in the Association must be in writing on the appropriate form and must be signed by the person nominating and by a seconder and must be countersigned by the member nominated. Nominations for Executive Council must also include whether the nominee normally resides in the North or South Island of New Zealand where applicable.

Reason – Council candidates to declare their island as part of the electoral process.

Amend wording to clause 1 'c'

c. A member may be nominated for both the office of President and Executive Councillor and a member so nominated must be included on the ballot paper both for President and for the Executive Council. If the member is elected to both offices, the office of President is deemed to be preferred and the next successful candidate in the election for the Executive Council is deemed elected. If there has been no ballot for the election of the Executive Council then the President elect's vacant position on Council must be filled as a casual vacancy.

Reason – removed reference to districts.

Remove subclause 1 'd'

Rename subclause 1 'e' to 1 'd'

Reason – Process adjusted for the lack of electoral boundaries.

Add new clauses 2 j, k and l

j. The presidential candidate receiving the highest number of votes shall be declared President.

k. The result of the election for the five positions on the Executive Council shall be adjudged in the following order:

i. The candidates residing in the South Island and the North Island who receive the highest number of votes; then

ii. The next three candidates who reside anywhere in New Zealand who received the next highest number of votes.

l. Where there is no candidate for Executive Council from either the North or South Islands then the five candidates who receive the highest number of votes shall be declared Executive Councillors.

Reason – formalises election procedure in line with the constitution.

Schedule C – Definition of Terms Used in Constitution

Remove definition of the term “Electoral District”

Reason – removes reference to electoral district no longer used in the constitution.

Add the following definitions

“North Island” means the North Island of New Zealand and its offshore islands

“South Island” means the South Island of New Zealand, its off shore islands and Stewart Island.

Reason – clarifies for members who may not live on either of the 2 main islands.

Proposed by NZART Council 2022

Council Comment:

Both remits, and an amended Constitution will be available on the NZART website to assist members when reading the remits and where the changes will be made

Link to NZART Website with complete amended Constitution

<https://www.nzart.org.nz/nzart/constitution>