



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



Blue ZL3TT  
presenting the  
Branch 13/HBARC  
November 2022  
AGM, Homebrew  
Trophy to Morrie  
ZL2AAA for his  
winning entry

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

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

**Emergency Call-in Frequencies: 3615khz and 670 repeater**



<https://arec.nz/join-arec/>



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## **NAPIER BRANCH 25**

**President:** Dave Crook ZL2MQ, 02102969006 email [davey.crook@gmail.com](mailto:davey.crook@gmail.com)  
**Secretary:** Bryce Gilbert ZL1BCG 027 27764928 email [zl1bcg@gmail.com](mailto:zl1bcg@gmail.com)  
**Treasurer:** Stuart McLeod ZL2XC 8445706 email [stushe@slingshot.co.nz](mailto:stushe@slingshot.co.nz)  
**AREC:** Mike Bull ZL2VM 843 6052 email [rlb.mbb@xtra.co.nz](mailto:rlb.mbb@xtra.co.nz)

### **Committee:**

**Revell Troy ZL2SS** 0210742837 email [revelltroy@hotmail.com](mailto:revelltroy@hotmail.com)  
**Michael Mullins ZL2MY** 8434210 email [michaelmullins@xtra.co.nz](mailto:michaelmullins@xtra.co.nz)  
**Peter Breen ZL2CD** 0274721527 email [peterbreen@clear.net.nz](mailto:peterbreen@clear.net.nz)  
**Karl Matthys ZL1TJ** 845 4372 email [karl@waspnet.co.nz](mailto:karl@waspnet.co.nz)

**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**

Happy New Year to you all. I hope you all had a great Festive Season with friends and Family.

Mr COVID paid Mary and I a visit on Boxing Day, so put paid to our activities for some days, we are pretty much over it now, but not the greatest experience overall. My prediction that covid would disappear in 2022 was sadly well off the mark.

I had a look at the wspr data base and although the ZL2GT 6 metre antenna is damaged the beacon (wspr) is still being heard regularly in VK and the pacific islands. This antenna is one of the aerial projects we can hopefully fix this summer, along with the HF antenna for the club shack.

The Branch 25 committee will meet this week to decide on a program for the coming year, as usual we are looking for speakers and demonstrators, so if you have a skill (not necessarily Ham / Radio), let us know and you can help rejuvenate the Club, by adding to the knowledge and entertainment base.

Our next general meeting for members and guests will be held at the clubrooms Latham Street on 1st February 2023 at 7:30pm, All welcome.

That's all for now

73 Dave ZL2MQ

## HASTINGS BRANCH 13

<b>President:</b>	Blue Smith ZL3TT	Ph 027 220 3724	email: <a href="mailto:kgsmithblue@nowmail.co.nz">kgsmithblue@nowmail.co.nz</a>
<b>Vice President</b>	Robert Wallace ZL2SG	Ph 878 4993	email <a href="mailto:ffonzrjw@gmail.com">ffonzrjw@gmail.com</a>
<b>Secretary:</b>	David Walker ZL2DW	Ph 876 0518	email <a href="mailto:david@apexradiocoms.co.nz">david@apexradiocoms.co.nz</a>
<b>Treasurer:</b>	Peter Moore ZL2HM	Ph 06 68577340	email: <a href="mailto:pikam@xtra.co.nz">pikam@xtra.co.nz</a>
<b>AREC/CD</b>	John Newson ZL2VAF	Ph 027 230 3642	email: <a href="mailto:zl2vaf@gmail.com">zl2vaf@gmail.com</a>
<b>AREC Deputy:</b>	Robert Wallace ZL2SG	Ph 878 4993	email <a href="mailto:ffonzrjw@gmail.com">ffonzrjw@gmail.com</a>
<b>Committee:</b>	Ray Barlow ZL2RB	Ph 06 878 6068	email: <a href="mailto:r.w.barlow@xtra.co.nz">r.w.barlow@xtra.co.nz</a>
	Rob Leicester ZL2US	Ph 878 6381	
	Peter Keong ZL2PW	Ph 027 217 1315	email: <a href="mailto:pkeong@xtra.co.nz">pkeong@xtra.co.nz</a>
	Brendin Graham-Ireland ZL2SB	Ph 027 777 2262	email: <a href="mailto:brendingi98@gmail.com">brendingi98@gmail.com</a>
	Stephen Simpson ZL2SPF		
<b>Hastings QSL Distribution:</b>	Wally Shuker ZL2MO	Ph 843 5497	email <a href="mailto:ZL2MO@hotmail.co.nz">ZL2MO@hotmail.co.nz</a>
<b>Magazine Editor:</b>	John Newson ZL2VAF	Ph. 027 230 3642	email <a href="mailto:john@thecomputerman.co.nz">john@thecomputerman.co.nz</a>
<b>NZART License Examiners:</b>	Peter – ZL2HM, Dave – ZL2MQ, Ray – ZL2RB		
<b>Club Call:</b>	<b>ZL2AS and ZL2QS</b>		

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

## From the top table

Happy New year to you all and may it be a better year.

Well so far this year I have not been up to to much HF wise but have been doing a little bit on 20 Meters and 10. There is very little on 10 and the signals are not great but you do get the odd one that comes across really good that makes it all worthwhile. The other night I worked a guy over in GI in Belfast so that was a new one for me. If you are into HF there are a few DX expeditions happening right about now so keep your ears out for them and be polite, remember there will be heaps of stations calling them. Do your best and work them as quick as you can with just the ZL CALL 5/9 your name and get out and let them work the next guy that is calling them. Pileups will be there so it will be a case of the strongest stations making the calls and getting through. Be patient and wait, you will get them sooner or later. If you can't find them look on the cluster to see where they are. They might also be working split so make yourself familiar on how to do this on you rig.

Last month, December, I had to go have a hearing test done and OH joy joy they told me that my hearing was not good. I thought there was nothing wrong with my hearing what-so-ever but oh no not the case. After doing all the tests my hearing was not good at all and to be told you need hearing aids was a shocker. Just before Xmas I got my new hearing aids and boy they do make a difference that's for sure. They do make sounds a lot better but birds are bloody noisy. Other sounds do come across a lot better now as well. I also find that I don't need to have the TV very loud to hear it and even have to turn down the volume on the radio as well. In the car I can hear what others are saying with out having to try and read lips or look right at who ever is talking. All I can say about the whole thing is bloody great.

Wally ZL2MO is laid up at the moment with a broken leg. He is doing well and is well on the way to getting better. Some time in the next few weeks he should be up and



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

about again once the bones heal back together again and then there will be no holding him back again. This brings me to make mention that a lot of us are getting older and we just got to remember that we can't do what we used to do so think before you do something that can and, in some cases will, end in disaster. Be wise and careful before you do anything on your own, ask some one to help you.

Well that's my lot, take care and I hope to see some of you on Wednesday night. Before that I will just like to make mention that we do have the cornflakes net each weekday morning and on Sunday morning there is also a net on 670. This net is for all and of late I'm very disappointed in the fact we go out of our way to have these nets and yet very few of you bother to participate in them. They are a good way to hear what is going on around the clubs and really I'm starting to wonder is it worth the time to hold them, for the guys that go out of their way to run them to carry on, more so the Sunday morning net compared to the cornflakes net which has a good following.

That's all for this month.

Your President Blue ZL3TT Branch 13 HBARC



## WANTED

'725 repeater requires the donation of an N coax connector (ie a male/male barrel ) (or if you prefer N(m)/N(m) ). (Male gender as in the centre pin). This will allow the upcoming circulator to be connected to the transmitter. If you can help out please contact David (ZL2DW 0274 502501).



## Branch 13/HBARC Hastings Subs

Sub's (\$20) are due and can be paid

- in cash to Peter ZL2HM or David ZL2DW or
- (preferably) paid online to the Club account (03 0642 0733310 00) use your call sign as the reference.

Thank you.



## THE NEXT Branch3/HBARC, Hastings, General Meeting

- is on Wednesday 25 January 7-30pm, Pakowhai Hall.

- the Guest Speaker will be David ZL2DW talking about why circulators are necessary for repeaters. David also has some historical test gear to show.

Other folk will be bringing along some items/gear of historical interest and talking about them also.



## FARADAY CENTRE

Our two Branches have had an approach from the Faraday Museum of Technology as they wish to update the Ham Radio historical display they have and have asked our two clubs to lead this. So, we need, a project leader, contributors, helpers, good ideas, older no go equipment etc. (in the short term contact David ZL2DW re this matter).



## Branch 13/HBARC Homebrew Trophy

Blue ZL3TT presenting the Branch 13/HBARC November 2022 AGM, Homebrew Trophy to (absent) Morrie ZL2AAA for his winning entry.

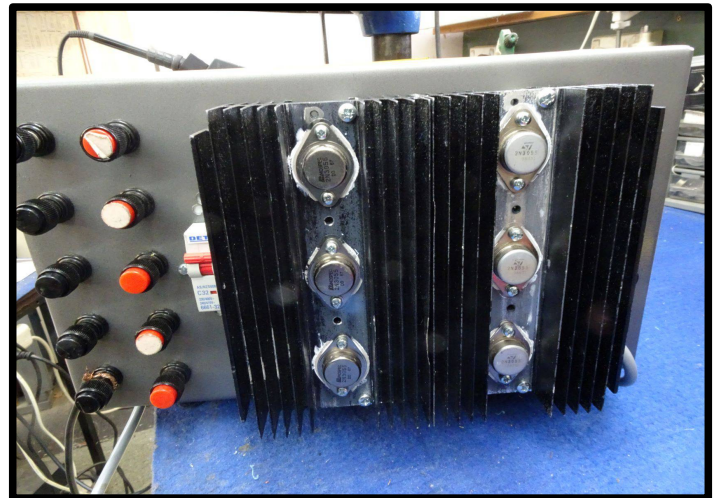
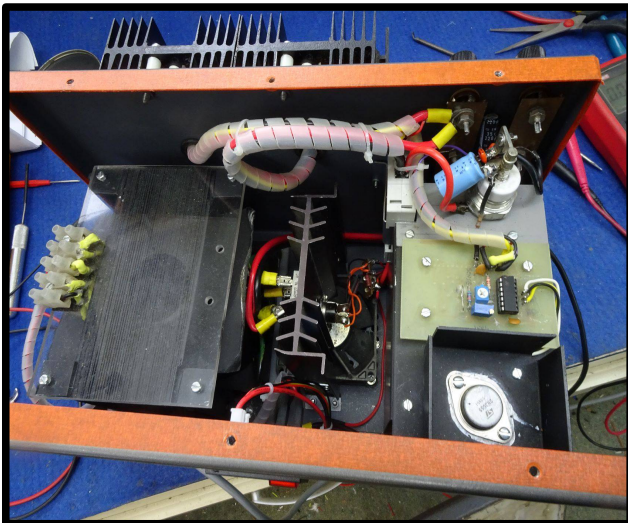
It was an interesting Competition this year with entries from

- "Old Timer" Morrie ZL2AAA, 12v DC, high current power supply
- and
- "Newbie" Graham ZL2YG, photos shown of his home station aerials.

Well done all



## Winning entry (Homebrew Competition) Power Supply from Morrie ZL2AAA



## Homebrew Comp second place getter, Graham ZL2YG Home Station aerials



## RESULTS of the last Branch 13/HBARC Annual General Meeting

(November 2022)

- All Officers and positions are as they were last year.
- another good year for the Club and a profit made (We are more than covering our costs).
- Sub's remain unchanged at \$20 and are now due (see separate notice elsewhere).
- Our venue host (The Pakowhai Memorial Hall) is happy with us and our branch's contribution to it's upkeep and running (of particular note is our contribution last year towards the War Memorial Gates maintenance.....it was noticed by the local community and nice notes left).



# PLANNED VAN TRIP (to Wanganui Vintage Radio Museum).

To be confirmed but Branches 13/25 have an upcoming day trip to Wanganui on 5 March as per below. Lady's welcome. Mask use optional unless something Covid-wise dictates otherwise nearer the time.

<https://vintageradiomuseum.co.nz/>

Our host can provided a table for lunch and a toilet but we need to take our own food/drink. Entry fee is a donation. There is a great food shop at Bulls.

\$'s per seat is yet to be determined.

"Pick up the van" locations have yet to be decided (perhaps Pakowhai Hall, BP Stortford Lodge and BP Waipawa, Waipukurau ????).

It's a great venue and these "Van trips" are great fun, 'looking forward to it and having another Branches 13/25 adventure.

Bookings to David ZL2DW 0274 502501



## For Sale

Lengths of RG213 RG8 coax most with PL259;  
Ph 8767904 ZL2AO



This ad. (more than 70 years old) came my way courtesy of Ian ZL2AM. While the ad. is old the filter type (there are modern day versions) is valid, and especially the described "trick" within the text to determine the supply route of your interference.  
David ZL2DW

78 LAMPHOUSE RADIO CIRCUITS



**STOP**  
*Man Made Interference!*  
**ENSIGN LINE FILTERS**

These useful Units have two distinct purposes.

1. To stop interference entering the A.C. Mains at the source of the trouble.
2. To stop interference coming over the Mains from entering the Receiver.

The best place to stop interference is at its source and if you have a small motor or other Appliance which causes interference in your own or anyone's else's Radio, it may be successfully cured by installing an Ensign Filter. The Filter is plugged in to the Power Point and the offending appliance plugged in to the Filter, no other installation is required. It can be used on any appliance not exceeding 750 watts. Should it be impracticable to stop the trouble at its source, we must try to stop it from entering the Receiver.

We must decide whether the man-made static, which is proving so troublesome, is being picked up by the aerial or is coming over the power lines or both. A good test is to tune the set to a point where the noise is particularly bad and turn the volume control well up. Now remove the aerial wire and attach it to the earth terminal, but do not remove the earth wire. The effect will be to reduce the noise level, but if the man-made static continues to be very severe you will at once know that at least portion of the interference is coming over the A.C. power mains, and you will at least need an Ensign Line Filter before you can overcome the trouble. On the other hand, if the noise is entirely eliminated you will know that the noise is being picked up by the aerial and some form of noise-reducing aerial will be required.

Designed for use with electrically operated radio receivers. Simply fits between the receiver and the wall plug. It will definitely stop all man-made static entering through either A.C. or D.C. Mains. Particularly successful in D.C. and on ships with D.C. generators.

Cat. No. VA3

25/6

**THE ELECTRIC LAMPHOUSE LTD.**  
11 MANNERS STREET WELLINGTON

## Start of new year

December and January is always the start of a new year.

I put a new coat of white paint on the floor, and generally have a major tidy up of the work bench.

Because people of my clan have this problem, if there's a flat surface that's empty you have put some stuff on top of it, and you end up with no bench .

Now my bench is 700 mm by 500 mm, and that's sort of all the space that I can keep clean.

So I have a lot shelves, as I have a collection of stuff.

But we all do .

That took up most of the time, (that and mowing the lawn).

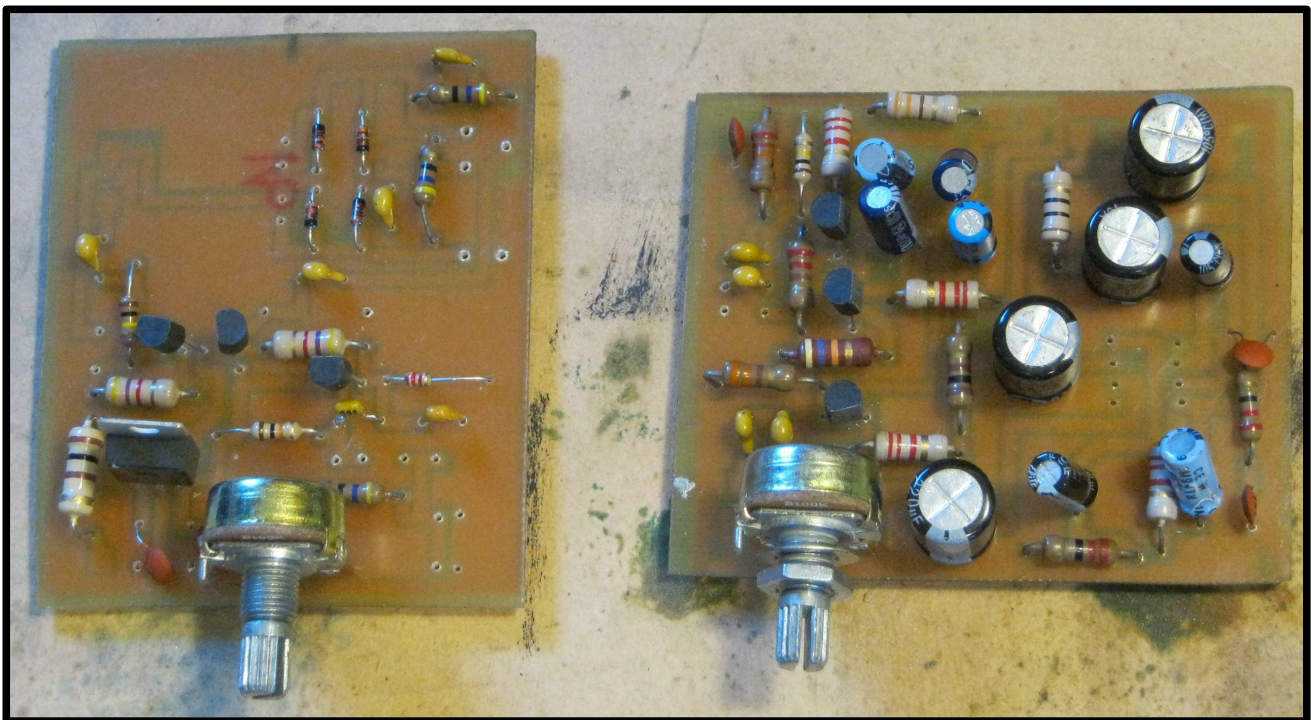
I had promised Errol and Dave of the Napier building club that I would catch up with the rest of the members .

The building Club's first project is the Beach 40.

Errol has worked up some PCB layouts, as this is the easiest for the new members (and me) to work on and fault find.

I had enough PCB that I could print and etch, to make the balanced modulator and audio out put stage.

I have drilled the boards, and mounted all the components I have in stock (see figure 1), balanced modulator left, Audio right.



Now the next job is to do the transmitter board, I bought some new printed circuit board on Friday .

But I have two cord of firewood to put away.

Now this new etching compound (Ammonium Persulphate) the liquid goes blue as it eats away the copper .

I have been advised that you do not do the etching on top of a stainless steel bench. As if you drip or splash it on the bench , the copper will come out of solution and will leave a stain.

Let me say that you will get you some comments.



But aluminium doesn't have a major problem.

So I've got an old electric frypan that I heat up with water in it as a water bath as these solutions work better when they are warm.

A second hand Pyrex dish sitting in the water with the etching solution in it.

It seems to work quite well so that's got me sort of caught up with the rest of them.

The next thing is I'm still waiting for my 40 metre magnetic loop antenna job to be done, so I'm putting up a centre taped half wave dipole on 40 metres, as it will give me a working aerial, and a reference point to measure the magnetic loop against .

We'll see what happens .

I've got my linear mains power supply started and need to finish.

I use a computer power supply on the bench, but when you're working with receivers and transmitters with a computer power supply, it generates quite a few birdies.

It's alright when you working around on something else but not when you doing receivers especially if you want to hear something besides electronic noise.

Sorry I'll just leave it at that , I need to write this up so I can keep John happy and give it to him in time .

Take the photos and hopefully we can have a good year sorting out things I want to do .

So I'm off inside for a Bickie and a Coffee.

*Eric ZL2TSU*



## How a secret message in a Colombian song gave hostages hope

A recent article on the BBC website describes how a Columbian love song was used to send coded messages to captured soldiers held hostages in the jungle by rebels. Quite a long read but well worth reading in full. Here is the link:-

<https://www.bbc.com/news/world-latin-america-63995293>

Here is a link to the song:- <https://www.bbc.com/news/av/world-latin-america-63995294> You can hear the CW between 1.30sec to 1.52sec, 2.28sec to 2.53sec and from 3.32sec to the end.

This is the hidden message for those who do not know the Morse Code. "19 people rescued. You're next. Don't lose hope."



## Amateur Radio Hall of Fame

[http://www.radcomms.net/Hall\\_of\\_Fame.html](http://www.radcomms.net/Hall_of_Fame.html)

## Here are a few more Tuai photos

Pylon building and running out the cable. All the steel for the pylons had to be transported to the building site by bullock cart. The cable drums were sent out from Southampton. Again no sign of OSH inspectors! There is another photo of the control panel after installation in the Hawke's Bay Knowledge Bank collection. Peter ZL2LF



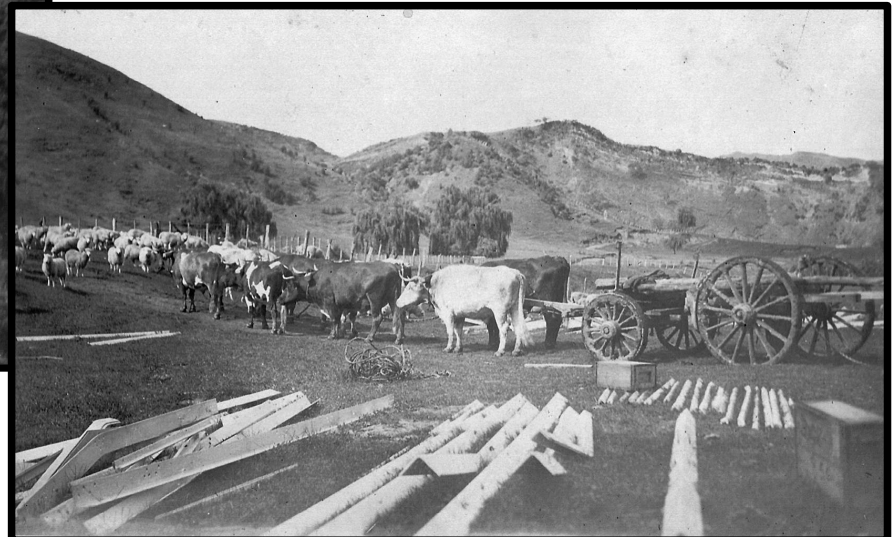
*Cable mounted,  
ready for  
running out*



*Motive power for running out cables*

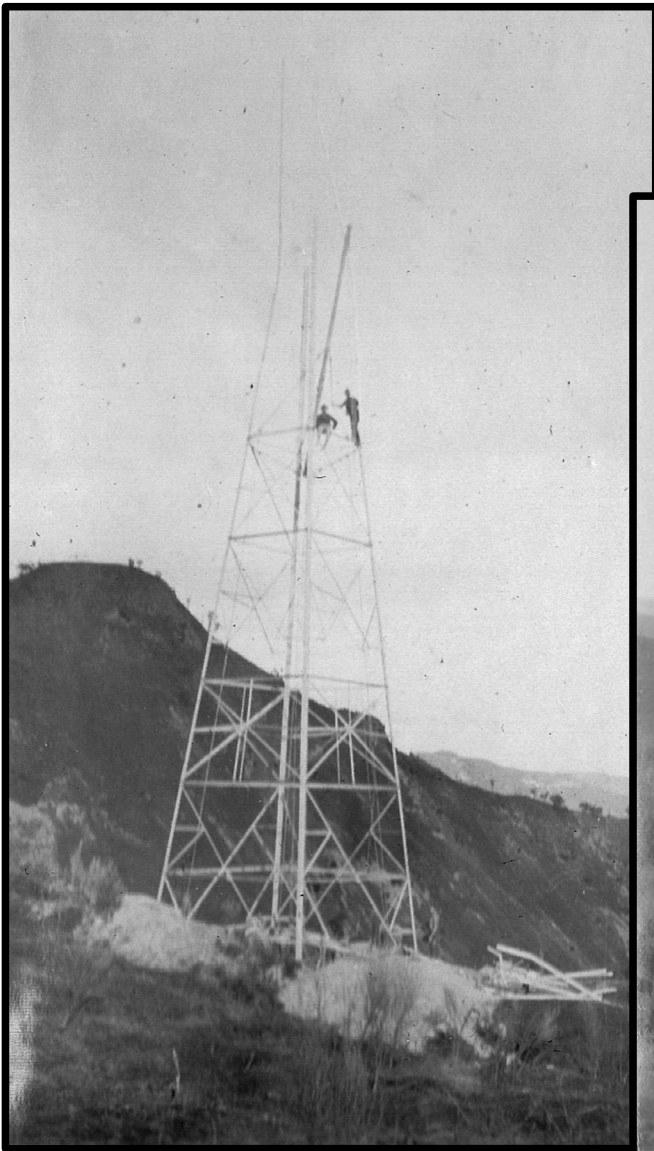


*Hanging wire on an angle  
head tower 260*



*Loading the tower steel at Waihi*

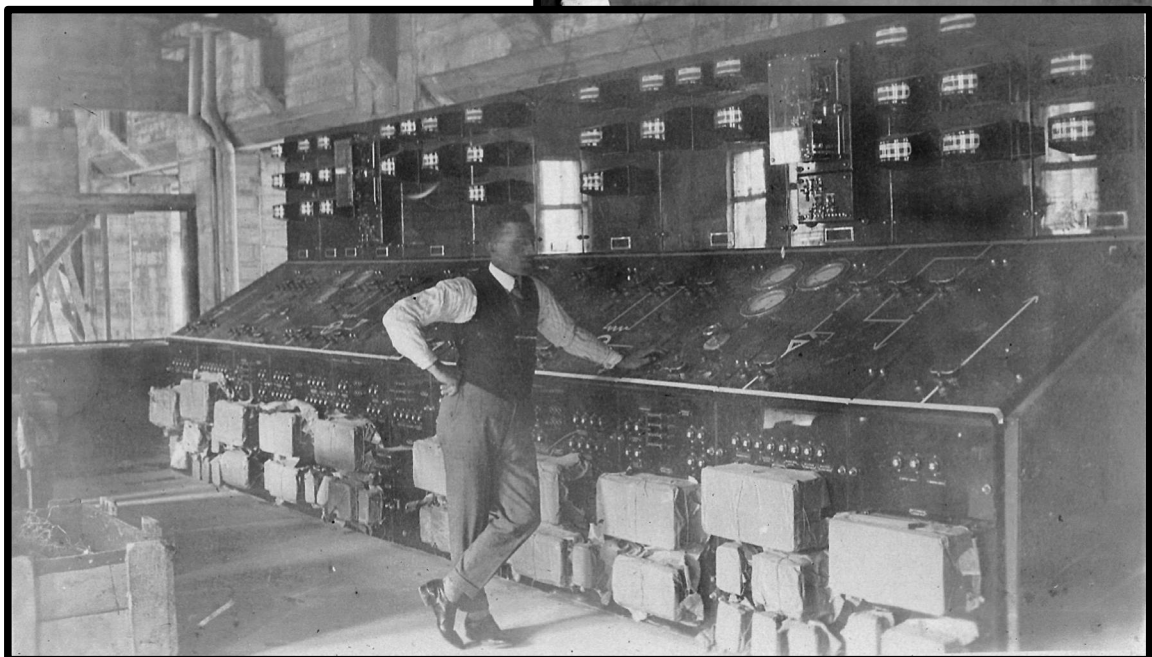




*Tower 247 swinging the top leg into position*



*Building an angle head at Waihi*



*Improved switchboard 2*



We now have the IC-T10 available for \$385.25 (inc. GST) plus freight from our warehouse to their delivery address.

I've attached the brochure which lists the specifications and accessories available. If anyone does want to place an order or requires more information, please send your enquiries to: [orders@rwb.co.nz](mailto:orders@rwb.co.nz)

**ICOM** **IC-T10**  
 VHF/UHF DUAL BAND FM TRANSCEIVER

# Rugged, Compact Dual Bander

## with Simple Operation and Great Performance

**5 W RF Output in 144 and 430/440 MHz**

**1500 mW Loud and Intelligible Audio**

**IP67 Dust-tight and Waterproof**

**Home Button on Top Panel for Quick Access to Calling Channel**

**Optional HM-222HLWP, Loud Audio SP-MIC**

**FM Broadcast Receiver**

**Up to 11 Hours\* Operating Time**  
\* 11/10 hours (VHF/UHF, approx.) with BP-280 battery at 1:1.5 duty ratio (Power save: ON)

**Other Features**

- DC power operation with optional AD-149H
- Free CS-T10 downloadable programming software
- Built-in CTCSS/DTCS for repeater operation
- Total of 208 memory channels with 6 character channel name
- 16 DTMF autodial memories
- Priority, Program, Memory, Skip, and Tone Scan
- Direct-conversion system eliminates IF stages



**SPECIFICATIONS**

GENERAL			
Frequency coverage (MHz)			
Version	Transmit	Receive	FM broadcast
USA	144-148, 430-450*	136-174, 400-479**	88-108
Export	136-174, 400-479**	136-174, 400-479**	76-108
* Guaranteed range † 144-148, 440-450 MHz; ‡ 144-148, 430-440 MHz			
Number of channels	208 channels (including 2 call and 6 scan edges)		
Type of emission	F2D, F3E (FM)		
Frequency stability	±2.5 ppm (-20°C to +60°C on the basis of 25°C)		
Power supply requirement	7.2 V DC nominal		
External DC power	10-16 V DC (with AD-149H)		
Current drain (approximate)	Tx High	Less than 2.5 A	
	Rx Max. audio	Less than 600 mA	
Antenna impedance	50 Ω (SMA)		
Operating temperature range	-20°C to +60°C; -4°F to +140°F		
Dimensions (W x H x D; Projections not included)	52.2 x 111.8 x 30.3 mm; 2.1 x 4.4 x 1.2 in (with BP-280)		
Weight (approximate)	278 g; 9.8 oz (with BP-280 and antenna)		
TRANSMITTER			
Output power	5 W, 2.5 W, 0.5 W		
Max. frequency deviation	±5.0 kHz/±2.5 kHz (W/N)		
Spurious emissions	Less than -60 dBc (High, Mid), Less than -13 dBm (Low)		
Ext. microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ		
RECEIVER			
Receiver sensitivity	Less than 0.18 μV (at 12 dB SINAD)		
Squelch sensitivity	Less than 0.18 μV (at squelch threshold)		
Adjacent channel selectivity	More than 55 dB (FM, 25 kHz)		
	More than 50 dB (FM Narrow, 12.5 kHz)		
Spurious response	More than 60 dB		
Audio output power (at 10% distortion, 8 Ω load)	Internal SP	1500 mW (typical)	
	External SP	450 mW (typical)	
	HM-222HLWP	1500 mW (typical)	
Ext. speaker connector	3-conductor 3.5 (d) mm (1/8")/8 Ω		

All stated specifications are subject to change without notice or obligation.

**Applicable U.S. Military Specifications**

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	-
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard	
Dust & Water	IP67 (Dust-tight and waterproof protection)

**Supplied Accessories:**

- BP-280 Battery Pack • FA-S270C Antenna • MB-133 Belt Clip
- BC-213 Rapid Charger • AC Adapter (BC-242 or BC-123SA/SE)



The "3D GENUINE Icom label" is attached for proof of authentication. [https://www.icomjapan.com/explore/genuine\\_info/](https://www.icomjapan.com/explore/genuine_info/)

**OPTIONAL ACCESSORIES**

**SPEAKER MICROPHONES**



**HM-222HLWP**  
High-power audio speaker with 3.5 mm earphone jack



**HM-168LWP**  
Waterproof speaker microphone



**HM-158LA**  
Compact speaker microphone with 3.5 mm earphone jack



**HM-159LA**  
Loud and clear audio speaker microphone

**HEADSETS**



**HS-94LWP**  
Earhook type headset



**HS-95LWP**  
Neck-arm type headset

**EARPHONE-SPEAKERS**




**HM-153LA**  
Durable lapel microphone with earphone



**HM-166LA**  
Light weight lapel microphone with earphone

**BATTERY PACK**

**BP-280** Li-ion, 2400 mAh (typ.), 2280 mAh (min.) (Same as supplied.)



**POWER SUPPLY ADAPTER**

**AD-149H**  
Use with CP-12L or OPC-254L to supply DC power to the IC-T10



CP-12L (left) and AD-149H (right)

**RAPID CHARGER**

**BC-123SA/SE** **BC-213**



Charges the BP-280 in 3 hours (approx.). AC adapter is supplied with the BC-213, depending on the charger version.

**MULTI-CHARGER**

**BC-157S** **BC-214N**



The BC-157S and AD-130 charger adapters are supplied with the BC-214N, depending on the charger version.

**OTHER ACCESSORIES**

- FA-S270C** VHF/UHF antenna (Same as supplied)
- MB-133** Belt clip (Same as supplied)
- MB-130** Charger bracket for BC-213
- CP-12L** Cigarette lighter cable for use with the AD-149H
- CP-23L** Cigarette lighter cable for use with the BC-213
- OPC-254L** DC power cable for use with the AD-149H
- OPC-656** DC power cable for use with the BC-214N

**PROGRAMMING SOFTWARE & CABLE**

- CS-T10** Programming software for Windows™ PC  
Available for free download from: [https://www.icomjapan.com/support/firmware\\_driver/](https://www.icomjapan.com/support/firmware_driver/)
  - OPC-478UC/-1** Programming cable (USB)
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**Icom Inc.**

1-1-32, Kamihinami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

[www.icomjapan.com](http://www.icomjapan.com)

**Icom America Inc.**  
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# **Te Puke Amateur Radio Club Inc.**

Branch 53 of NZART

## **21<sup>ST</sup> Market Day**

**Saturday March 25th, 2023**

**Paengaroa Community Hall.  
4 Old Coach Road,  
Paengaroa.**

**(GPS Coordinates: 37.49S 176.24E)**

Venue opens for Vendors from 06.30am.

Sale time 09.30am.

Door Charge \$2.00 per person to help recover costs.

### **Table Costs**

Pre-Sale 1.8 Table \$20.00, On the Day \$25.00

Pre-Sale ½ Table \$12.00, On the Day \$15.00.

### **For further information & Table Booking's**

Contact Syd Rowe ZL1LWR

Phone (07) 533 1029, Mobile: 0272488664,

Email [sydrowe@xtra.co.nz](mailto:sydrowe@xtra.co.nz)

Postal Address: 223 State Highway 33, RD 9, Te Puke  
3189

**Hot Breakfast Available  
from 07.30am to 11.00am.**



**Te Puke Amateur Radio Club Inc.**  
**Junk Sale March 25th, 2023. Vendors Registration Form**

Call Sign: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ Post Code: \_\_\_\_\_

Phone Number: (    ) \_\_\_\_\_

Mobile \_\_\_\_\_

Email Address: \_\_\_\_\_

1.8m Tables Required @ \$20.00 \_\_\_\_\_ = \$ \_\_\_\_\_ :00

Cost \$25.00 On the day.

½ Tables Required @ \$12.00 \_\_\_\_\_ = \$ \_\_\_\_\_ :00

Cost \$15.00 On the day.

Total \$ \_\_\_\_\_ :00

Please pay into our Westpac Bank Account:

Te Puke Amateur Radio Club Inc.

**03—0474—0030113--00 Reference: "Table Sale"    Code: "Your Call Sign"**

For Further enquiries to:

Phone (07) 533 1029, Mobile 027 248 8664    Email: [sydrowe@xtra.co.nz](mailto:sydrowe@xtra.co.nz)

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**Te Puke Amateur Radio Club Inc.**  
**Junk Sale March 25<sup>th</sup>, 2022. Vendors Registration Form**

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Name: \_\_\_\_\_

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