

— OFFICIAL PUBLICATION —

“THE HQ INFOLINE”

WITH TECHNICAL INSERTS FOUND BY THE LATE ZL3IB



TECHNICAL FORUM

with JOHN WALKER, ZL3IB



There is only one NEW ZEALAND ASSOCIATION of RADIO TRANSMITTERS.

**Together we protect our spectrum, strengthen, our community,
& secure the future of amateur radio.**

SUPPORT IT TODAY TO PROTECT AMATEUR RADIO TOMORROW!



Messages from the NZART President and Council.

Message from NZART Business Manager ZL2DL Debby Morgan:

Kia ora e hoa ma

A big thank you to Cam ZL1DKS and Annalise ZL2MAE for putting together HQ Info-line #512 while I was away. It was a great issue. Cam will now continue as editor of this monthly publication. I will continue to provide branch newsletters and articles, so please keep sending them to nzart@nzart.org.nz.

Happy 100th Birthday, NZART!

Today, 16 August 2026, marks 100 years since the inaugural meeting of NZART was held in 1926. As we celebrate this milestone, we remember the many members who have shaped NZART over the past century, especially those who are no longer with us. Our hobby has changed enormously — from the early days of wireless telegraphy on shortwave to today's digital modes and increasingly valuable UHF and higher-frequency allocations.

While it is important to remember our history, we also need to look ahead. New technologies and modes provide exciting opportunities, but we must continue to protect the spectrum and privileges we currently enjoy.

Thanks to Craig Crawford ZL3TLB for bringing this important anniversary to our attention.

NZART 100-Year History Book

The official 100-year history of NZART is now available from HQ.

- ☐ Members: \$42.00 including postage and packaging
- ☐ Non-members: \$52.00 including postage and packaging
- ☐ Rural delivery: Additional \$5.00
- ☐ Overseas: Postage available on request

Payment can be made to:

BNZ: 02 0772 0209760 00

Account name: The New Zealand Association of Radio Transmitters Inco

Please email HQ before making payment so we can confirm the correct amount and issue an invoice.

Council President 2027

Nominations for NZART Council and President 2027 open on 1 September.

The call for nominations and the nomination form are available on the NZART website:

<https://nzart.org.nz/nzart/council/election/>

Until Next Month

73,

Debby Morgan

NZART Business Manager

Message from NZART President ZL2AJ Warren Harris:

Kia ora fellow amateurs!



Well Break-In has hit the mailboxes of recent so I'll keep my column here short this edition. In this edition of Break-In, you'll find the write up of our 100th Anniversary conference along with a few extra colour pages in the centre to celebrate. I have already received some great feedback on the President's column, Thanks to all those who have taken the time to provide their thoughts, ideas and feedback!

As per one of the great suggestions I have received we have formed an agreement with our friends at WIA to cross post articles between the 2 organisations magazines. This will ensure we have a greater variety of content in our magazine and will bring our 2 organisations closer together.

I would like to pay a particular thanks to all of our contributors to not just Break-In but to the wider hobby. It is this sense of sharing and giving back that keeps Amateur radio alive and ticking, and keeps the home fires burning here at the NZART. **Thank You!**
Stay safe, stay warm. Until next time.

73

ZL2AJ Warren Harris
NZART President

Message from Councilor ZL1DKS Cam Wood:

Kia ora koutou katoa,



For a second month, HQ Infoline looks a little different. This will become a regular thing and the intention is to have a theme for every edition. This month, I have pulled some tid bits from the July 1985 edition of Break-In. I keep a copy of this particular edition of the Technical Forum in a clear file at work labelled "Interesting and Useful Stuff." I hope you all enjoy the ideas to come.

On another note, I'm pleased to announce that Branch 404 is now an incorporated society, we have opened a bank account and things are moving fast! We have one repeater ready to go to Kawerau, another headed to Christchurch in the near future, and a member's discount at ePartners.

Without you, there is no NZART; and without NZART, our hobby wouldn't be what it is today.

Catch you down the log!

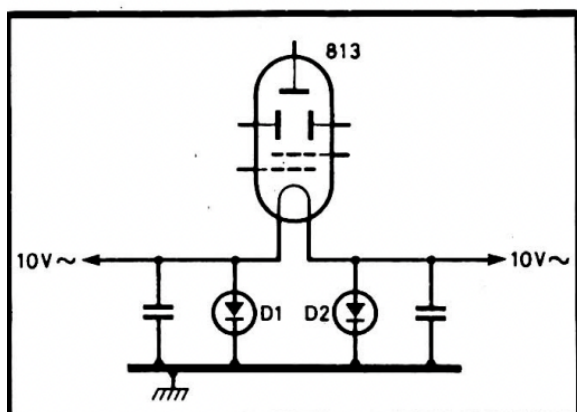
73,

Cam Wood

Lack a centre-tapped heater transformer?

Just as a problem exists these days in locating components suitable for high-voltage RF applications, so one finds increasing difficulty—or out-of-this-world costs, in providing the power for the valves still needed in linear amplifiers.

The 50 W (10 V at 5 A) directly-heated filaments of the rugged and still-popular 813 tetrode have always been something of a



MARKET DAY HAMILTON AMATEUR RADIO CLUB BRANCH 12

NZART SOUTHLAND BRANCH ZL4GQ

DON'T MISS OUT!

Branch newsletters.

Below are links to newsletters submitted by their branch representative.

If you wish to do the same with your branch and need assistance, please don't hesitate to contact NZAR HQ.

[Marlborough](#)

[Branch 50 Wellington](#)

[Christchurch](#)

[Napier/Hastings](#)

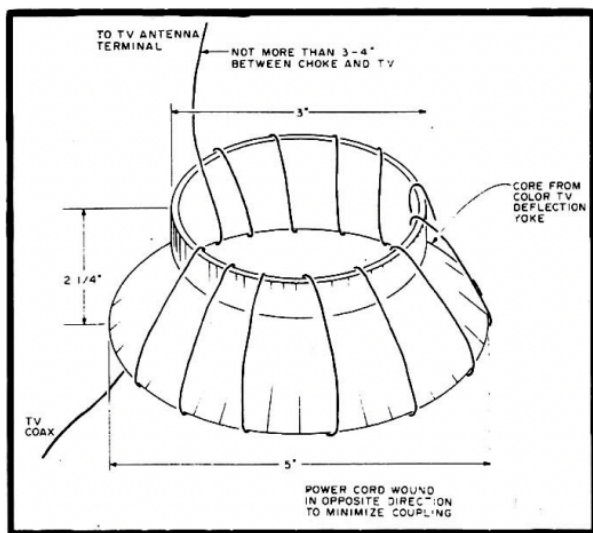
Not a Happy Choice

134 MHz is the standard nominal centre frequency for home direct broadcast receivers. With a pass band of 110 to 149 MHz the entire 2 metre band is covered; the potential for EMC problems is causing concern in Europe—it should be worrying us too.

Capacitance Galore

Once upon a time we wrinklies were told that the farad capacitor would need to be as big as the Town Hall. Nowadays such a statement is seen to be a fairy story. National Panasonic are producing capacitors of 3.3 F at 5 V to replace back-up batteries; it takes about 500 hours to discharge such a capacitor through a 1 megohm resistor.

ZL1HV

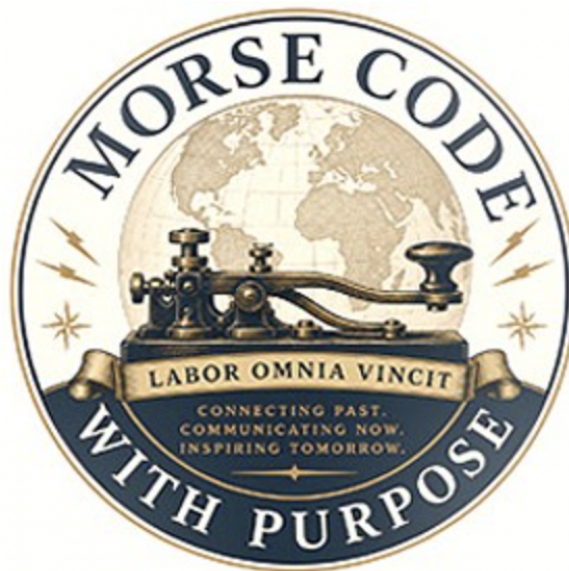


Another cure for TVI

KR7L (73 Magazine, November 1984) suggests that old TV picture tube deflection yokes make good toroidal cores once the redundant copper windings have been stripped off. KR7L found that if the TV coax lead and power cord were wrapped for several turns around this no-cost toroid all symptoms of TVI vanished as if by magic. Similar spectacular cures were observed with his stereo sound system.

BREAK-IN, JULY, 1985





This innovative hub for Morse activities was successfully launched on 27 July 2026 at a well-attended Zoom meeting. MWP is designed to encourage a far wider range of on-air CW operations than the average ARO typically experiences.

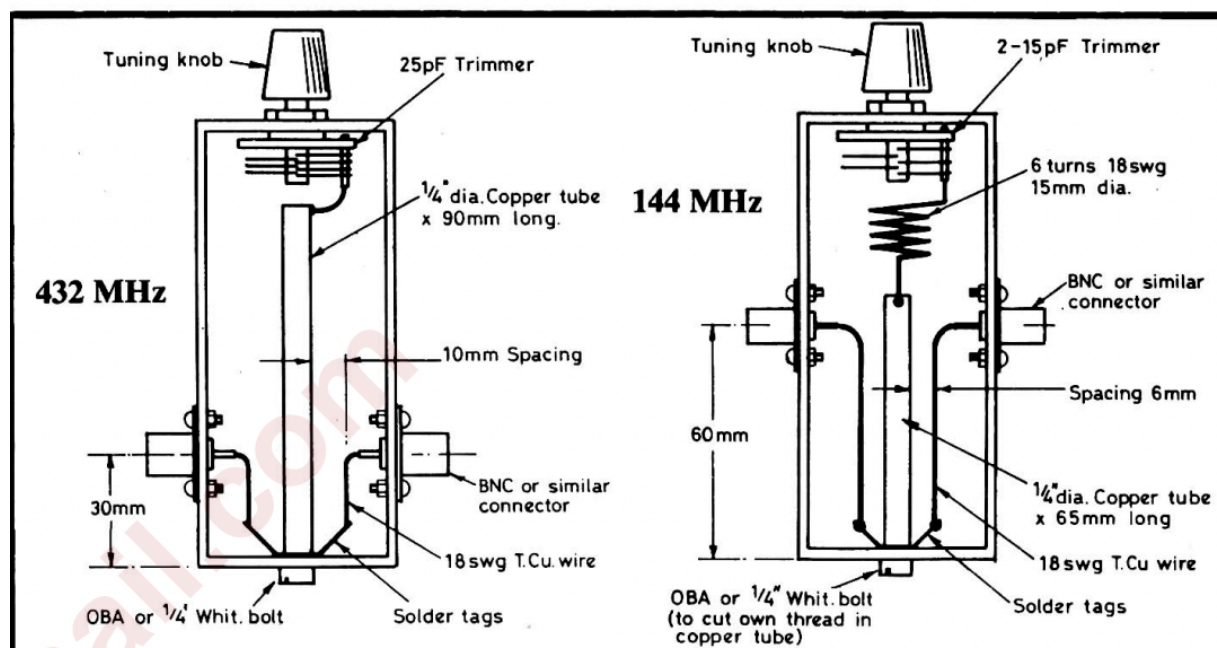
Despite the wide range, MWP is a low pressure project designed to run in 12-month cycles, yet is extremely powerful because it caters for everyone from cautious raw beginners to seasoned masters.

By completing the challenges offered in twelve categories over their personalised twelve months, participants earn badges, Boy-Scout style. This structure ensures continuous opportunities for CW activity and encourages the setting and achievement of personal goals. Accumulated badges qualify for proportional awards, Bronze, Silver and Gold. Categories include CWops Academy graduation, keying-skill tests, DX contests, formal traffic handling, RandomGram and even cold war-style transmissions. All options are described at URL <https://groups.io/g/mwp> Future Zoom meetings for registrants will provide training, discussion and question time. To begin your first 12-month cycle, register by email to mwp+owner@groups.io

VHF and UHF Filters

Glen Ross G8MWR, discusses radio frequency filters in a recent issue of *Short Wave Magazine* (February 1985, Vol. 42, p 573) and offers two simple designs for quarter wavelength filters for use on the 2 m and 70 cm bands. The author claims a low inser-

tion loss and moderate bandwidth for each unit which are built in standard diecast boxes (4.5"×2"×2" or 115×50×50 mm); Construction is obvious from the diagrams below but good ground connections are an absolute essential.



Have an upcoming event, exciting activity, or a report you'd like to share with the amateur radio community? **We'd love to hear from you!**

Send your stories, photos, and event details to info@nzart.org.nz or nzart@nzart.org.nz and help us showcase what's happening around New Zealand.

Haumi ē, Hui ē, Taiki ē

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