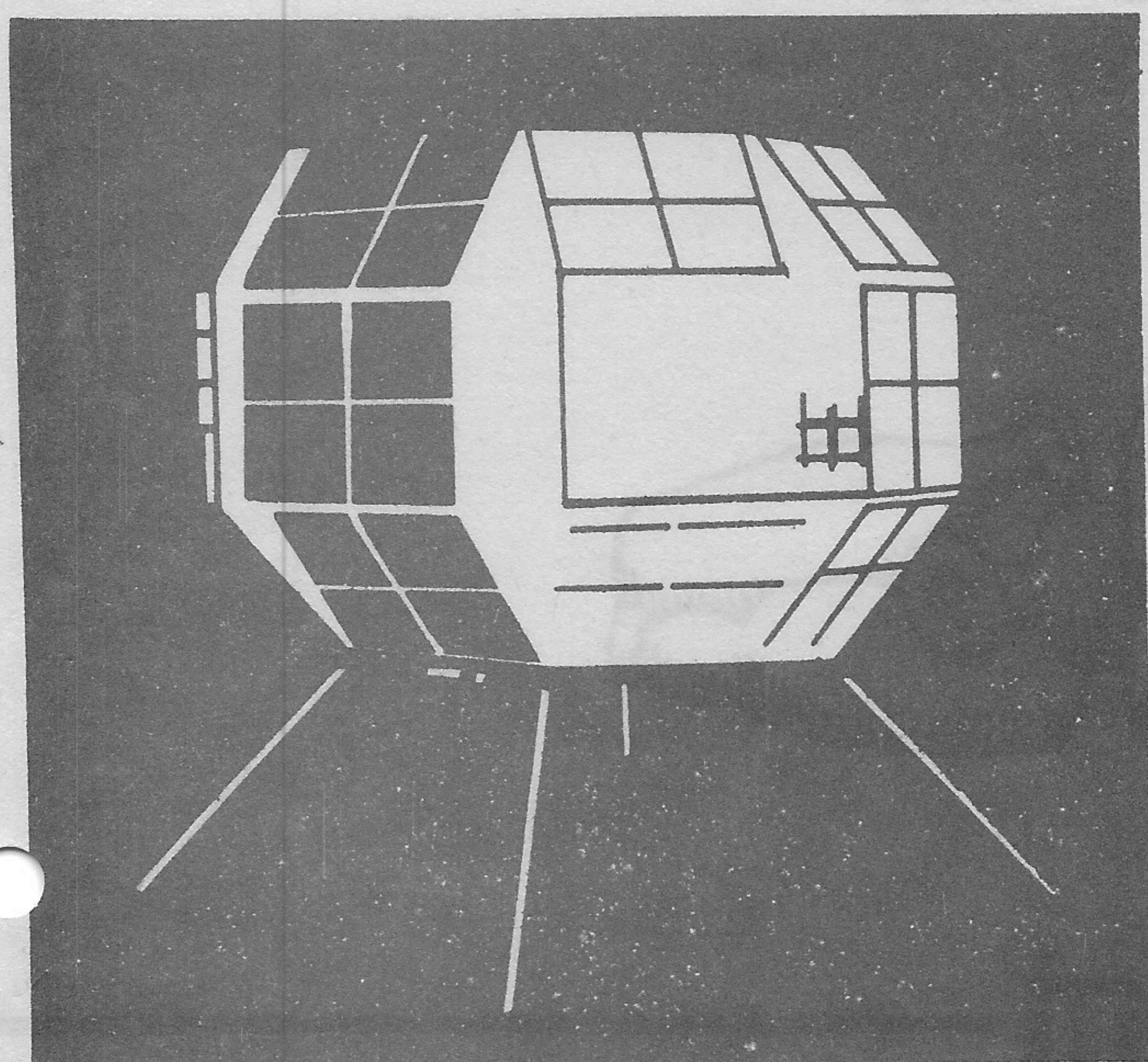


TASMANIAN AMATEUR RADIO

P.O. BOX 275
LAUNCESTON
TAS. — 7250

Registered for Posting
as a Publication
Category B

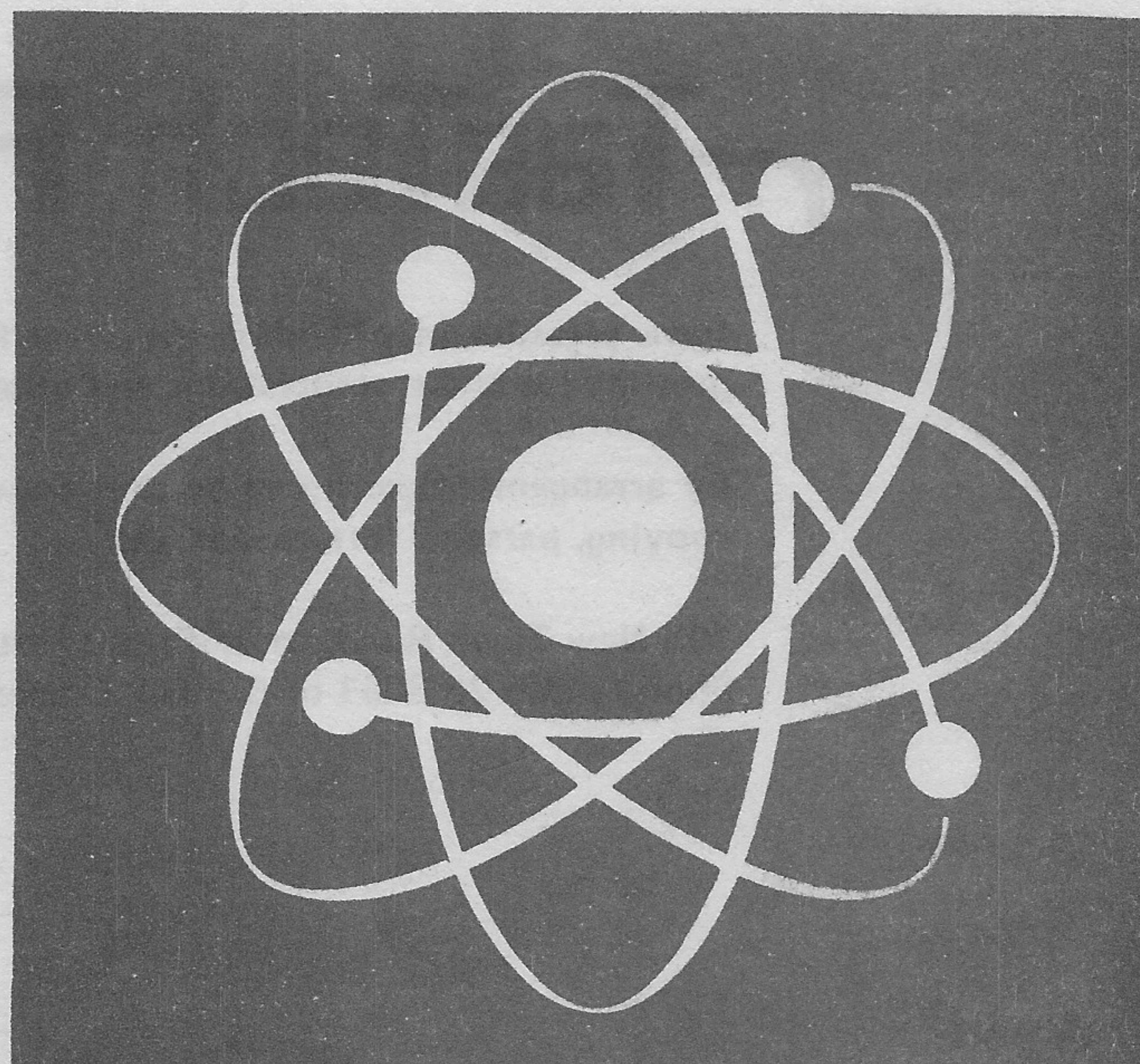
Bulletin issued by the North, North West and
Southern Branches of the Wireless Institute
of Australia, Tasmanian Division



TARC 79

LAUNCESTON

NOV 17 ~ 18



EDITORIAL

This month, QRM has been used to include the full programme for TARC 79 ; which is, for the uninitiated, a gathering of amateurs, listeners and any interested persons, with activities for all the family.

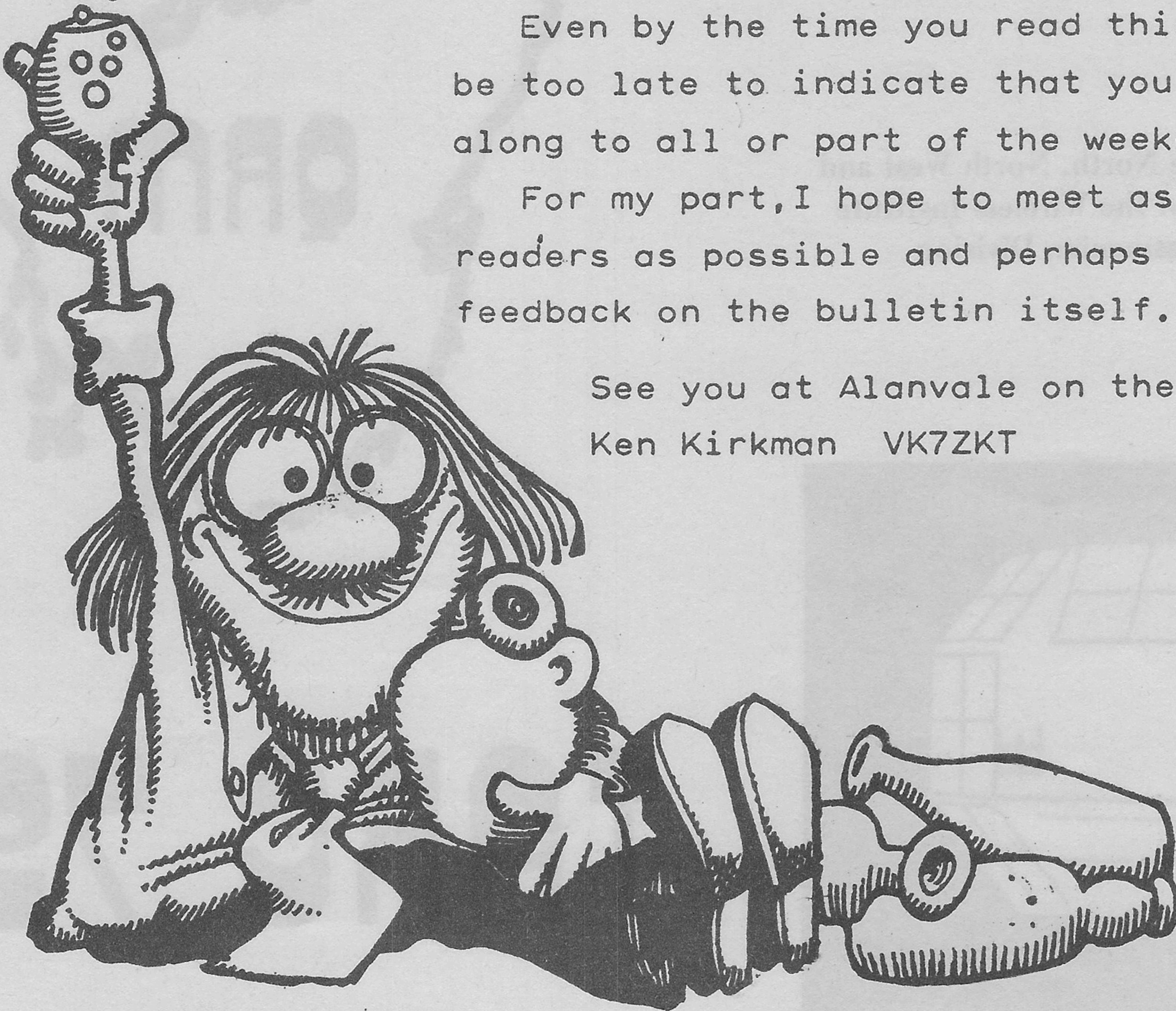
The programme was included in QRM from financial considerations, but mainly so that all who read this issue, will have an idea of what an amateur convention is about and what it has to offer.

Even by the time you read this, it would not be too late to indicate that you wish to come along to all or part of the weekend.

For my part, I hope to meet as many of QRM's readers as possible and perhaps receive some feedback on the bulletin itself.

See you at Alanvale on the 17th.

Ken Kirkman VK7ZKT



TasTech Print

Have pleasure in providing the cover for this month's QRM. We specialize in all types of small offset printing for clubs, associations and other public and private organizations.

By arrangement work can be sent anywhere in the State. Try us for QSL cards, circuit and handbook copying, personal letterheads, etc.

105 New Town Road, (near Talbot Hotel) New Town, Tas.
Phone (002) 28 6351 or C/o G.P.O. Box 215C, Hobart. 7001.

TARC 79

3

ORGANISING COMMITTEE

Reg Emmett	- Co-ordinator/Workshops
Graeme Reardon	- Saturday evening dinner dance
David Bailey	- Magpubs display/Equipment Store
Ken Kirkman	- Publicity
Ian Clements	- Trade displays
Les Harper	- Registration/Fox hunts
Brian Yeoman	- Sunday morning B'cast/Fox hunts
Lindsay Dowl	- Homebrew Equipment/Display space
Tony Polowy	- Antenna erection
Ed Hewens	- Family activities

The Northern Branch Ladies Committee is sincerely thanked for its fund raising activities prior to the convention. The funds raised will help to defray the expenses that are incurred and help to make the weekend possible.

HOME BREW EQUIPMENT

Remember that Kenwood have donated a trophy and an annual prize for the best home built equipment...Bring your best along, whether it is an original design or kit form and enter it...you may win a 24 hour clock. Lindsay Dowl VK7ZLD, Andrew Boon VK7AW or Paul Blake VK7ZPB are awaiting your call.

NORTHERN BRANCH EQUIPMENT STORE

David Bailey VK7YY will be manning the store over the weekend and this will include a display of books that are available from magpubs thru your local Branch. A complete list of Magpub books is included in this issue of QRM for your convenience.

WORKSHOP / SEMINARS

Although many of you will be coming to socialise, or to look over the new equipment on display, we are this year, offering a further choice..Workshop/Seminar sessions will give you the chance to hear from experts on various topics.

REFRESHMENTS/SUNDAY LUNCH

A canteen will be operating during the Convention, providing a variety of drinks and eats...Cost of morning tea and afternoon tea is included in your registration. Just present your registration sticker to the cafeteria. Due to catering requirements, definite numbers for lunch on Sunday, must be known by Wednesday 14th November. Convenor for catering requirements is Annette Emmett.

PROGRAMME FOR THE WEEKENDSATURDAY 17th November

12 Midday	VK7NB begins operation on Repeater 8 and 28.550.
1.00 PM	Registration available.
2.00 PM to 4.45 PM	Convention displays open to the general public.
3.00 PM	Official opening.
3.15 PM	Workshop ; Reading schematics by Brian Yeoman, VK7ZBY.
3.45 PM	Workshop ; Amateur television with Tony Bedelph, VK7AX
4.15 PM	Workshop ; Photo-etching printed circuit boards with Graham Rand, VK7AQ.
6.30 PM	Pre-dinner drinks at Riverside Council chambers.

SATURDAY EVENING DINNER DANCE

The evening function will be held at the Riverside Council chambers ; which is on the opposite side of town to Alanvale College. The evening will begin around 6.30 and finish at 11.30.

The meal is to be Smorgasbord style ; 3 course with soup, choice of casseroles with vegetables and rice and a choice of sweet followed by tea or coffee. It is hoped to finish the meal at around 8.30, then on with the dancing.

Dinner music and 50-50 dance music will be provided by "Roscoe" at a level hopefully to satisfy all. Drinks will be provided throughout the evening, with the total cost being included in the Registration fee.

SUNDAY 18th November

9.30 AM	Official WIA Broadcast
10.30 AM to 11.30 AM	Fox Hunts ; 2 metre channel 40 only
10.30 AM	Workshop ; RTTY with Tom Moffat, VK7TM or
10.30 AM	Using Scotchcal with Roger Woolley
11.00 AM	Opportunity for Trade exhibitors to give practical demonstrations of equipment.
11.30 AM	WICEN with Andrew Boon, VK7AW.
12 Midday	Break for lunch ; (included in Reg fee)
1PM to 2PM	Fox hunts ; 2 metre channel 40 only.
1.00 PM	Workshop ; Microprocessors with P Frith.
2.00 PM	Equipment auction and Presentation.

ADDITIONAL ACTIVITIES FOR THE FAMILY

SATURDAY 17th November

Keep fit with Jazz ballet and Disco dancing lessons with Dianne Yeoman.

Childrens games throughout the afternoon will be organised at the following times ;

- | | | |
|---------|-------------------------------|-------------------------|
| 2.00 PM | ; Game - "Under the broom". | "STOP PRESS" |
| 2.30 PM | ; Scavenger hunt. | The "LIFE BE IN IT" |
| 3.00 PM | ; Film - Disney cartoon film. | team will be present to |
| 3.30 PM | ; Game - "Apple Dangle". | assist. |
| 4.00 PM | ; Mixed games | |

SUNDAY 18th November

Morning ; At your leisure . Either help with the kids or visit ;

Evandale Market and Surrounds

Earls Court Bazaar

Penny Royal Complex

Design Centre

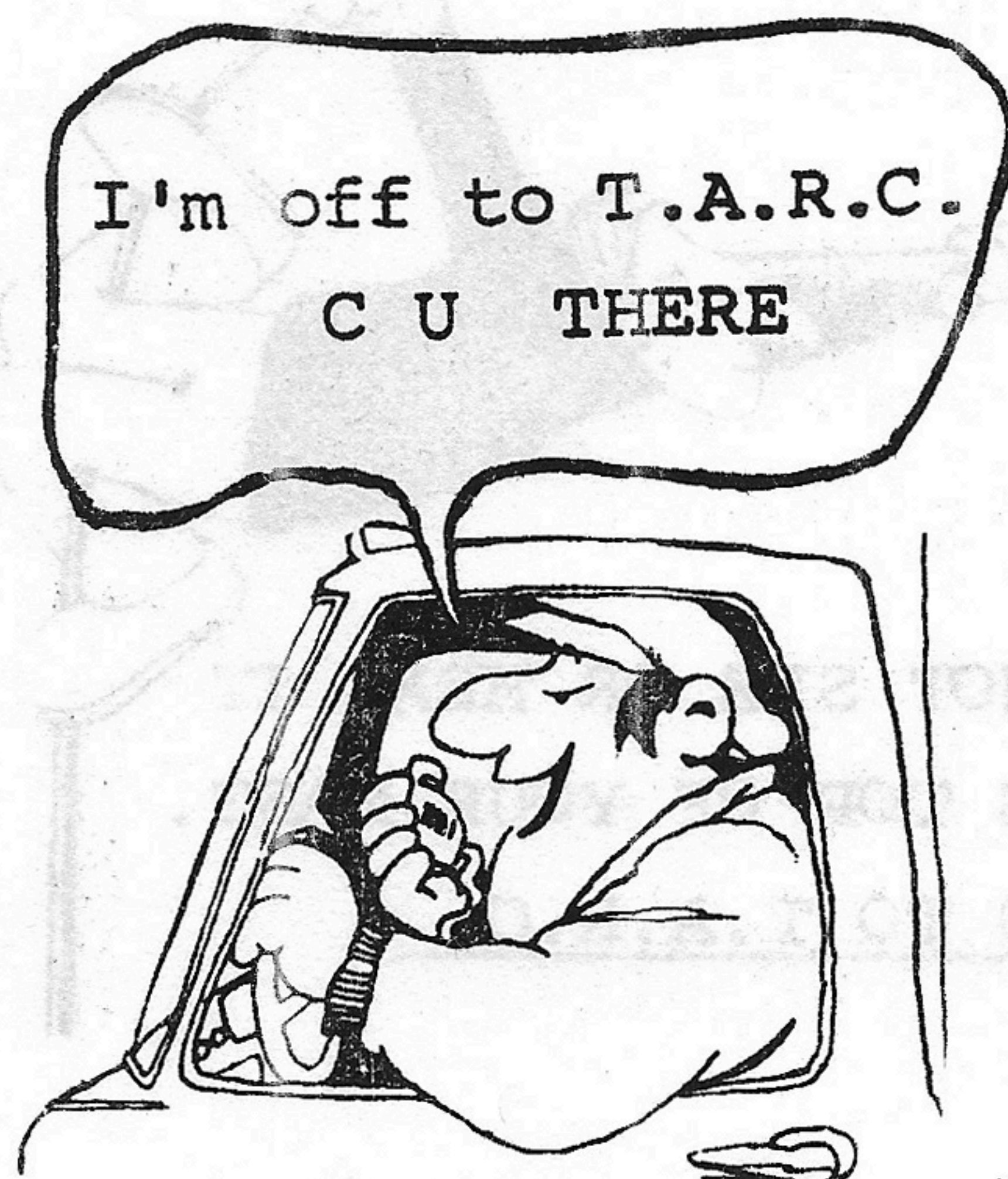
Afternoon ; There will be Flower arranging and Macrame to participate in..make a hanging basket holder with macrame.

Displays ; There will be displays including cosmetics, pottery, kitchenware and cleaning products.

Childrens Games

- | | |
|----------|---|
| 11.00 AM | ; Kite Making with materials provided. |
| 1.00 PM | ; Magic show with a guest Magician. |
| 1.30 PM | ; Fancy Dress (costumes will come from old or outgrown clothes donated by the parents which will be given to charity after TARC.) |
| 2.00 PM | ; Treasure Hunt |

There will be prizes, free balloons and whistles, guessing games and a lucky key dip as well.



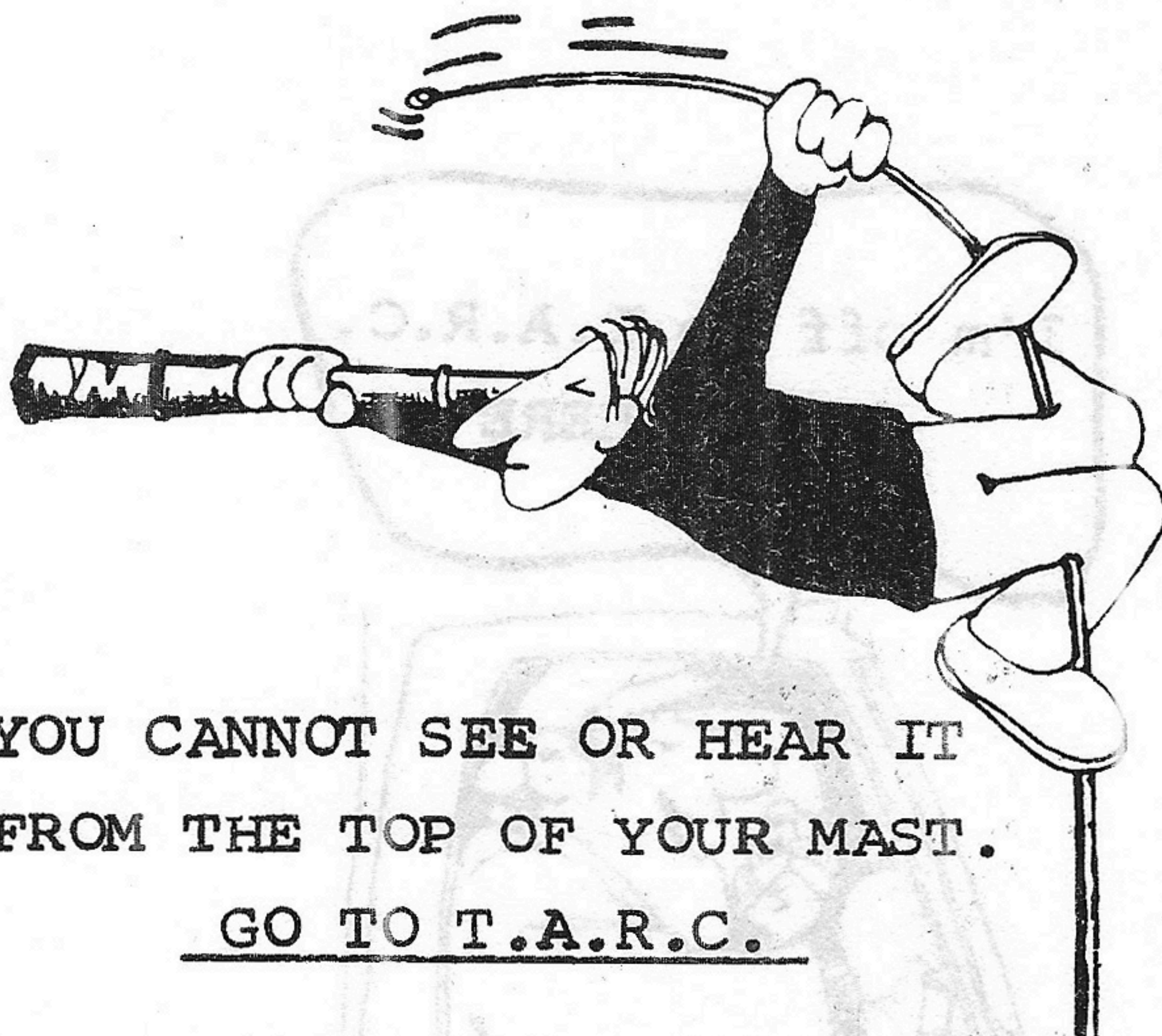
CONVENTION DISPLAYS

TRADE DISPLAYS

- ADVANCED ELECTRONICS ; Launceston's Dick Smith outlet,
Kenwood equipment, Sorcerer and
Pet computers.
- GELSTON COMMUNICATIONS ; Agent for Vicom, lessey, Scalar
and stockist of Beldon co-ax.
- J.D.ELECTRONICS ; Distributor for all Yaesu Muesen
amateur equipment.
- ASSOCIATED AGENCIES ; Agents for Heath amateur and
computer equipment. Also BWD test
equipment.
- ENERGY AND ELECTRONICS ; Agents for Tandy kits, electronic
products and microprocessors.
- W.P.MARTIN ; State distributors for Acme co-ax
connectors and Beldon co-ax.
- TECHNICAL BOOK and
MAGAZINE COMPANY ; Selection of technical books that
will be available for sale.
- MANAGEMENT TECHNOLOGY ; Hobart distributor for Computerland
and Anderson computer products.

AMATEUR DISPLAYS

- SLOW SCAN TELEVISION ; Tony Bedelph and Bob Grant
- HOME BREW EQUIPMENT ; Convened by Lindsay Dowl
- MICROPROCESSORS ; Peter Frith
- WICEN/SES ; Andrew Boon
- RTTY ; Tom Moffat
- MAGPUBS ; David Bailey
- ARMY COMMUNICATIONS ; Les Harper
- EQUIPMENT STORE ; Northern Branch
- VK7NB STATION ; Brian Yeoman



NORTHERN BRANCH OPERATING STATION VK7NB

The club station VK7NB will be operating from the TARC site on a number of amateur bands, from 1200 hrs on Saturday the 17th until the close on Sunday...The official Sunday morning news broadcast will also originate from this location.

Equipment operating under the call VK7NB will be ;

80 metres ; The transceiver used on this band will be the Branch's latest equipment purchase, namely a TS120V..The antenna to be used will be an 80 metre inverted vee.

40 metres ; The equipment for this band will be either a FT101, TS520 or TS820 using a 40 metre inverted vee for antenna.

20,15,10 metres ; These bands will be operated from a TS520 and will use a TH3 triband yagi.

10 metres ; There will be a transceiver operating on the frequency of 28.550 MHz USB..Talk in facilities will be available on this band from 1200 hrs on the Saturday.A ten metre Ringo antenna will be used for this purpose.

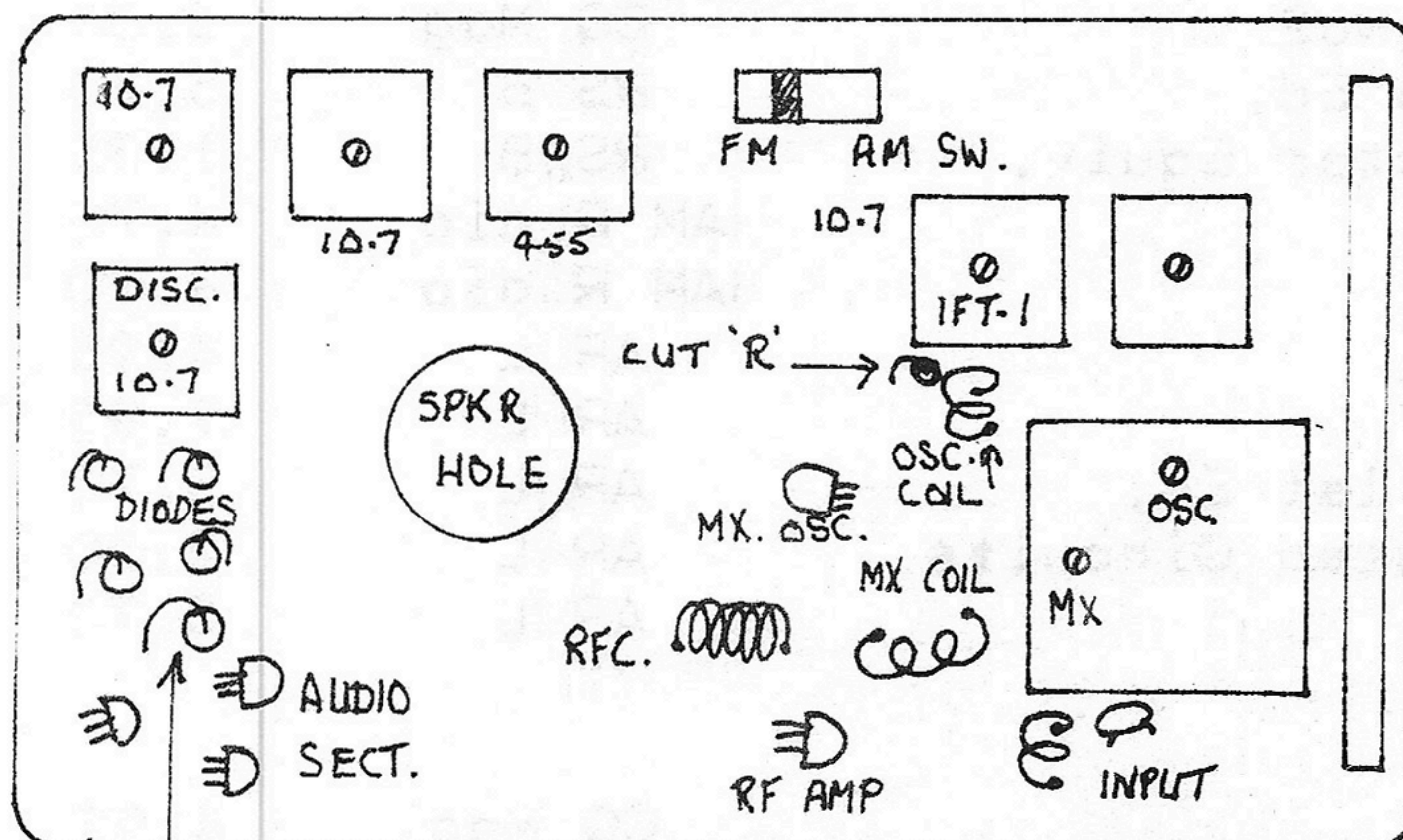
2 metres ; The equipment to cover this band will be the club's IC22S or similar with a 2 metre Ringo antenna..Talk-in on this band also.

Other equipment and bands may be operating as required.

MODIFICATIONS TO AM/FM RADIO FOR 2 Metre FM USE

(Particularly useful at TARC foxhunts)

CCT. BOARD



10K. CUT & INSERT METER IN SERIES.

VK7ZRF
VK7ZBY
VK7PF

Frequency conversion

Input coil ; cut, leave 2 turns and spread.

Mixer coil ; cut out .75 turn and spread.

Osc.coil ; spread approx 0.5 inch.

Cut damping resistor on IFT 1 and retune.

On some sets with low sensitivity, remove 5 turns from RFC.

Sensitivity should be about 5uV.

MAGPUBS BOOK AND MAGAZINE LIST

A complete list of books and magazines that are available from Magpubs, which is a service provided by the WIA Federal Division and can be ordered thru your local Branch, is included here. There will be a display of available books at Alameda College, which is the venue for this years Hamfest (TARC 79). Unfortunately it is not possible to provide a sample of all the books on the list, mainly owing to delays in shipping from England and the USA of those that Magpubs do not have in stock. There will be a display of most of the popular books to peruse and if any copies required, then an order can be placed at TARC. The Northern Branch Equipment Officer, David Bailey will be there to service your needs. The books on display can be purchased, although it is preferred not to remove them from the display till the end of the Convention.

GENERAL AND BEGINNER		Publisher	Price+p/p
Understanding Amateur Radio		ARRL	5.70
A Course in Radio Fundamentals		ARRL	4.70
Guide to Amateur Radio (G3VA) 16th Ed.		RSGB	2.80
Better Shortwave Reception		R.Pub.	4.55
Morse Code for the Radio Amateur 6th Ed.		RSGB	0.75
Radio Amateur License Manual		ARRL	3.80
Radio Amateur Exam Manual 7th Ed.		RSGB	2.60
Radio Amateur Exam Revision Notes		RSGB	1.55
Let's Talk Transistors		ARRL	1.20
Ham Radio Operating Guide		ARRL	4.95
Questions and Answers		RSGB	3.40
Basic Training Manual		NZART	2.95
NZART Basic Training Course		NZART	3.30
GENERAL/REFERENCE			
Handbook (paper cover) 1979 Ed.		ARRL	11.30
Radio Communications Handbook Vol.1		RSGB	16.95
Radio Communications Handbook Vol.2		RSGB	14.50
World at their Fingertips (G6CL)		RSGB	1.60
Hints and Kinks for the Radio Amateur		ARRL	4.40
Shop and Shack Shortcuts		CQ Mag	4.00
Amateur Radio Techniques 6th Ed.		RSGB	6.75
Test Equipment for the Radio Amateur 2nd Ed.		RSGB	7.55
Electronic Circuits Handbook No1		CQ Mag	3.00
Electronic Circuits Handbook No2		CQ Mag	3.00
Radio Data Reference Book 4th Ed.		RSGB	5.20
Service Valves and Semiconductor Equiv.		RSGB	1.35
Ham Notebook Vol.1		IAM Radio	4.70
Ham Notebook Vol.2		IAM Radio	4.70
Electronics Data Book		ARRL	4.95
Solid State Design		ARRL	7.95
Radio Frequency Interference 1st Ed.		ARRL	3.70
Learning to Work with Integrated Circuits		ARRL	2.90
Solid State Basics 1st Ed.		ARRL	5.70
SPECIFIC SUBJECTS			
Vertical Antenna Handbook		CQ Mag	4.95
Antenna Book (very good value)		ARRL	5.50
Wire Antennas for Radio Amateurs		R.Pub.	4.55
Antenna Roundup		CQ Mag	3.00
Radio Amateurs Antenna Handbook		R.Pubs	5.30
Antenna Handbook Vol.1		CQ Mag	4.05

SPECIFIC SUBJECTS (cont)

	Publisher	Price+p/p
Beam Antenna Handbook (Orr) 5th Ed.	R.Pubs	4.55
All About Cubical Quads (Orr)	R.Pubs	4.00
SSB for the Radio Amateur	ARRL	4.95
FM and Repeaters for the Radio Amateur	ARRL	4.95
ATV in a Nutshell		6.30
Oscar-Amateur Radio Satellites	RSGB	9.90
Satellite Communications	ARRL	5.50
Radio and TV Interference	FCC	2.60
NBFM Manual	RSGB	2.50
VHF/UHF Manual 3rd Ed.	RSGB	11.95
Radio Amateurs VHF Manual	ARRL	4.95
VHF Handbook for Radio Amateurs	R.Pubs	5.10
Guide to Amateur TV	CQTV	4.20
Slow Scan TV	CQTV	0.85
New RTTY Handbook	CQ Mag	4.05
RTTY A to Z	CQ Mag	4.95
Teleprinter Handbook	RSGB	15.60
Amateur Radio Awards	RSGB	3.50
Radio Amateur World Atlas 9th Ed.	RAC	2.50
1979 Foreign Call Book	RAC	14.10
1979 USA Call Book	RAC	14.95
Call Book (RSGB)	RSGB	5.75
NZART Call Book 1978	NZART	2.95
DX Guide	RAC	2.80

MISCELLANEOUS BOOKS

De-Luxe Log Book	RSGB	7.00
Standard Log Book	RSGB	1.95
Mobile Mini Log	RSGB	1.50
Log Sheets (per 100)	WIA	2.00
SWL's Log Book	RSGB	2.50
WIA Log Book	WIA	2.50
Binder for VHF Comms		2.75
Radio Amateur Map of the World	RAC	1.40

MAGAZINE SUBSCRIPTIONS

Break In	1year sub	\$11.00	
Ham Radio	" " "	15.50	
"73"	" " "	24.50	
Radio Comms	" " "	19.00	
CQ TV (send for m/ship form)		4.50	
"QST"	1year sub	\$18.75	
"CQ"	" " "	8.00	2year sub \$13.80
VHF Comms	1year surface	8.20	Single Issues Available

REMEMBER THAT THE PRICE OF MOST OF THESE BOOKS IS WELL
 BELOW THAT OF BOOK SHOPS AND MAIL ORDER OUTLETS...JUST
 CHECK THE PRICES AGAINST THAT OF A WELL KNOWN ELECTRON-
 -ICS FIRM THAT PRODUCES A CATALOGUE.....

ADVANCED ELECTRONICS

5A THE QUADRANT, LAUNCESTON, TASMANIAN, 7250 - P.O. BOX 328 - PHONE: 31 7075

BUILD A PROJECT... CAPACITOR DISCHARGE IGNITION from a Dick Smith kit

SINE AND SQUARE WAVE OSCILLATOR

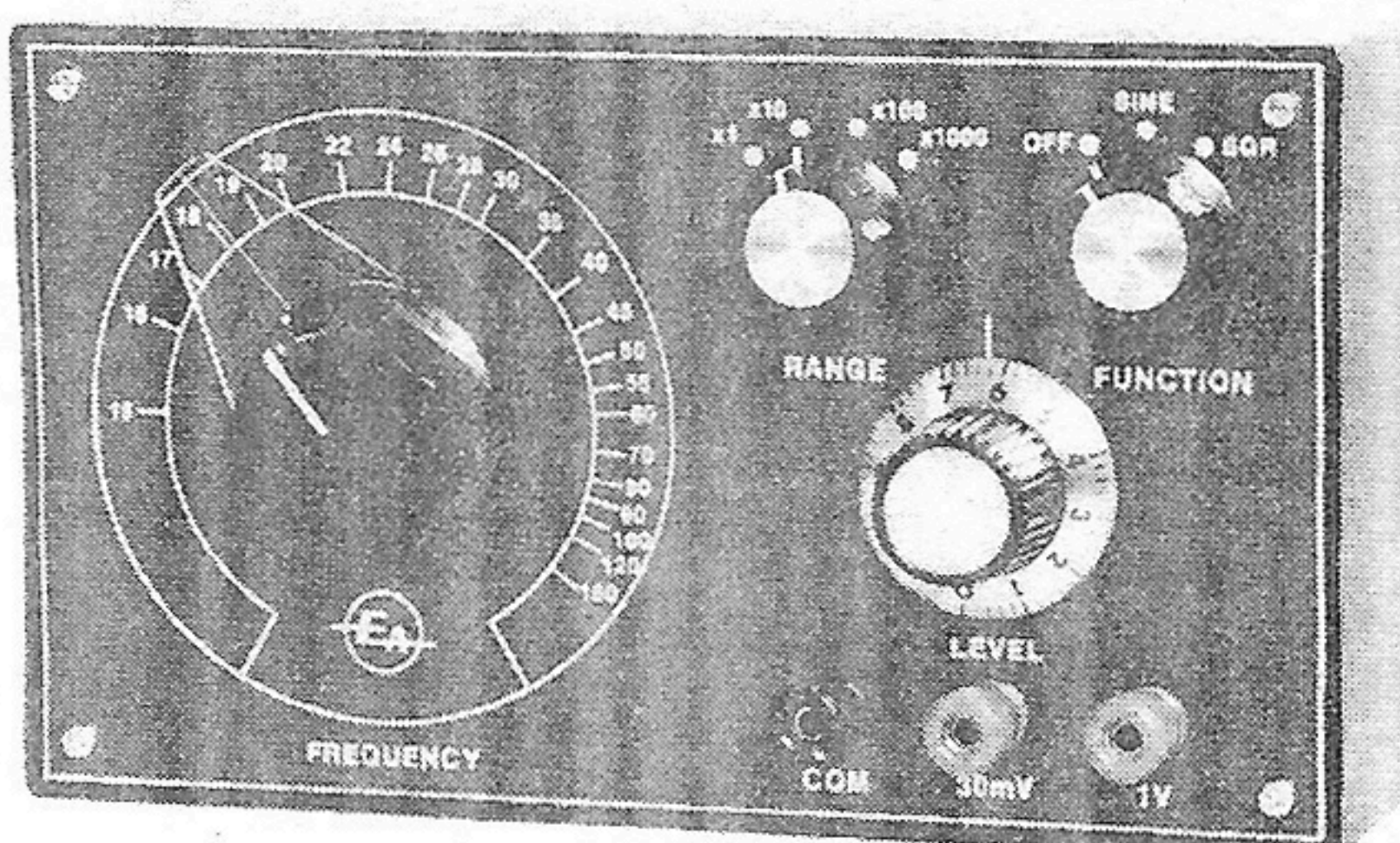
New simple design!

SEE E.A. JUNE 1978

An essential piece of test gear for the serious hobbyist. Covers frequencies from 15Hz to 150kHz in four overlapping ranges. Low distortion... less than .1% maximum between 20Hz and 20kHz. This is one of the most useful pieces of equipment on the experimenter's bench. This new, simple design is easy to build and a great performer. runs from 9V battery. All parts supplied, including specially printed front panel, attractive 'Zippy' case and full instructions. S-3006 9V battery 45c extra

Cat. K-3469 ★★

.....\$32.00



CAPACITOR DISCHARGE IGNITION



NOW WITH THIS DETAILED 16 PAGE ASSEMBLY MANUAL

OVER 4000 SOLD

This has got to be the best value C.D.I. available. Your car will be easier to start — when hot or cold, your points and plugs will last longer — keeping your car in tune and using less petrol. When you add all that up, it won't take long for the C.D.I. to pay for itself.

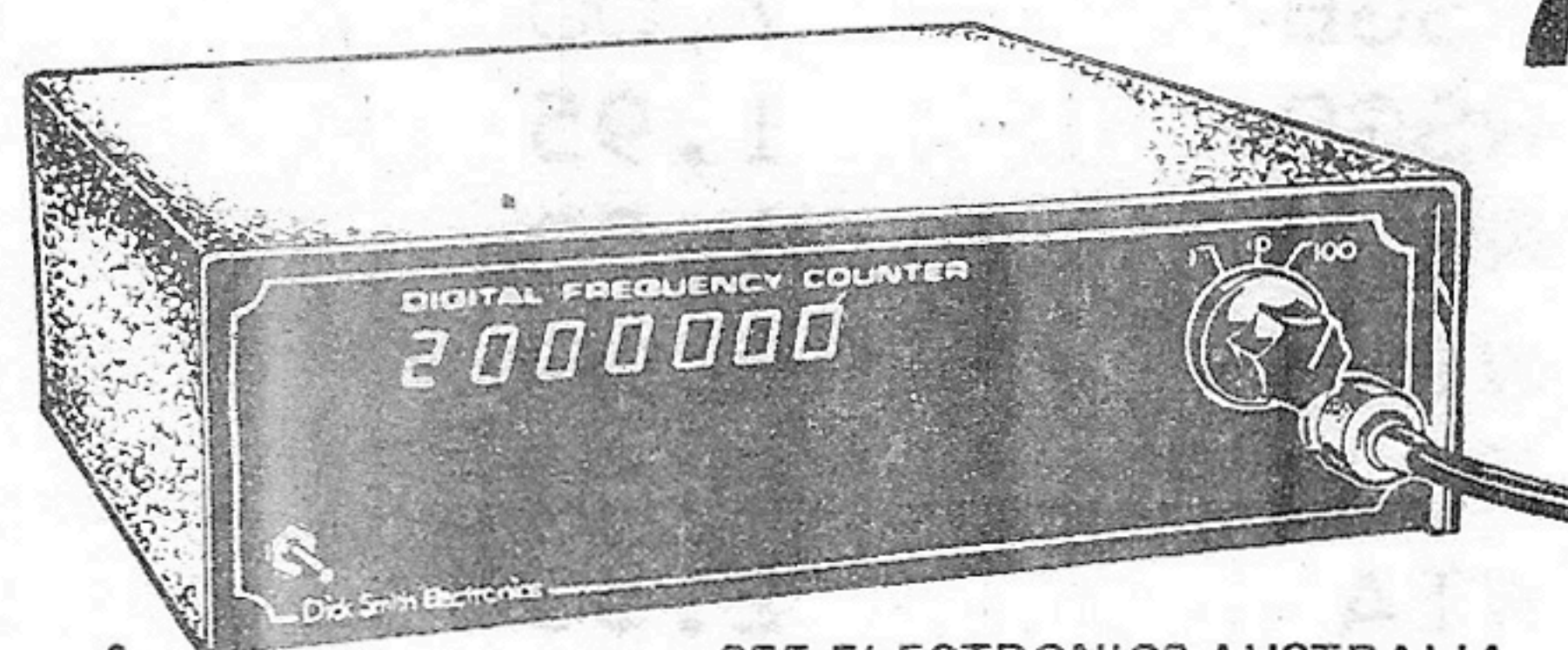
Cat. K-3280 ★.....\$27.50



7 DIGIT FREQUENCY METER

COUNTS TO 40MHz — or to 200MHz

DESIGNED BY IEO SIMPSON OF ELECTRONICS AUSTRALIA



SEE ELECTRONICS AUSTRALIA
AUGUST 1978

All new 7 digit 40MHz frequency meter from Electronics Australia. Can be run from 12V DC mobile supply. Has built-in 240V mains power supply for use in workshop. Has rugged drilled case with black marplat cover and special silk screen printed perspex front panel (like the original). Readouts are rugged light emitting diodes for long trouble free service. Has a built-in quartz crystal time-base circuit for incredible accuracy. Kit is supplied for operation up to 40MHz - you only need to add one IC at any time to convert your 40MHz kit to 200MHz. Full instructions supplied.

Cat. K-3437 ★★... 40MHz.....\$99.50

EASY LOW COST CONVERSION TO 200MHz All you do is add a 95H90 IC (Cat. Z-5360) at just \$12.50 and you turn your 40MHz DFM into a 200MHz DFM. No other parts to buy. For a total of just \$112.00 you have a 7 digit 200MHz frequency meter.

Cat. Z-5360.....\$12.50

TRANSISTOR TESTER

Speed fault finding!



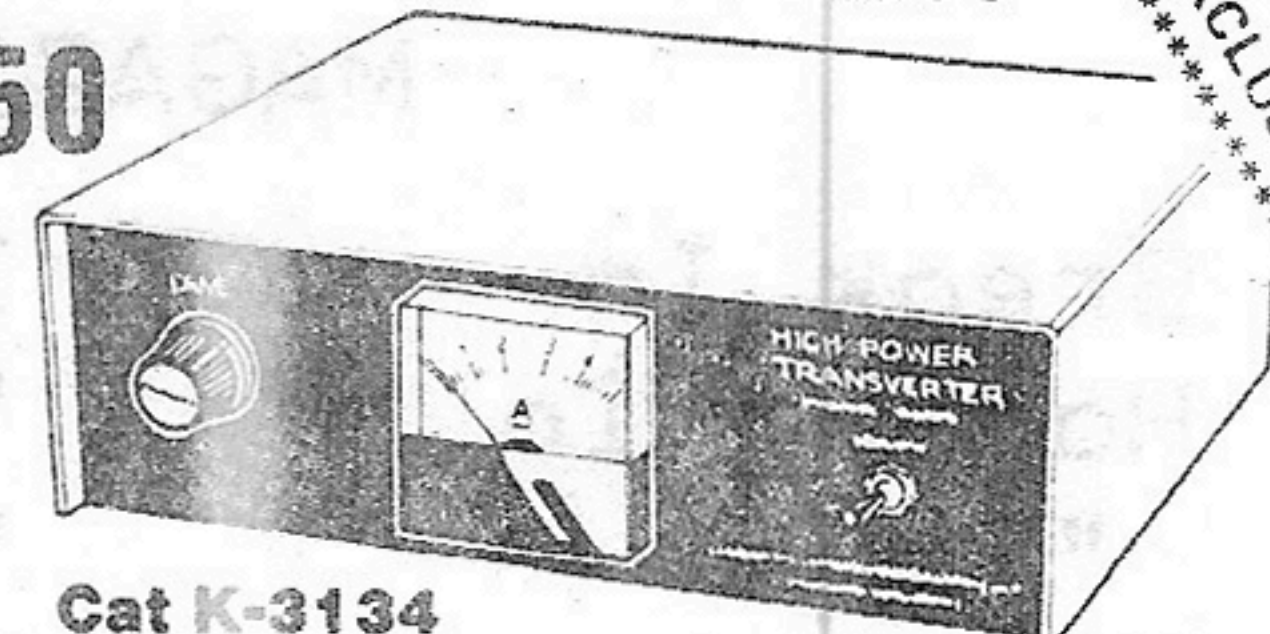
Not just another Transistor Tester! This one tests bipolar transistors, diodes, F.E.T.'s and even S.C.R.'s and P.U.T.'s. This practical low-cost test instrument is simple enough to be built by a beginner and then provide him with a valuable piece of test equipment. You can get experience in building, then use it to learn about the operation of semiconductors, or use it for more serious checking. Ideal for the beginner and serviceman alike, or in schools. Battery operated and supplied with one of our new 50mm meters in a deluxe 'Zippy' case. S-3006 9V battery 45c extra

Cat. K-3052 ★.....\$19.75
SEE E.A. JULY 1978

NOVICE TRANSVERTER

\$89⁵⁰

HIGH POWER

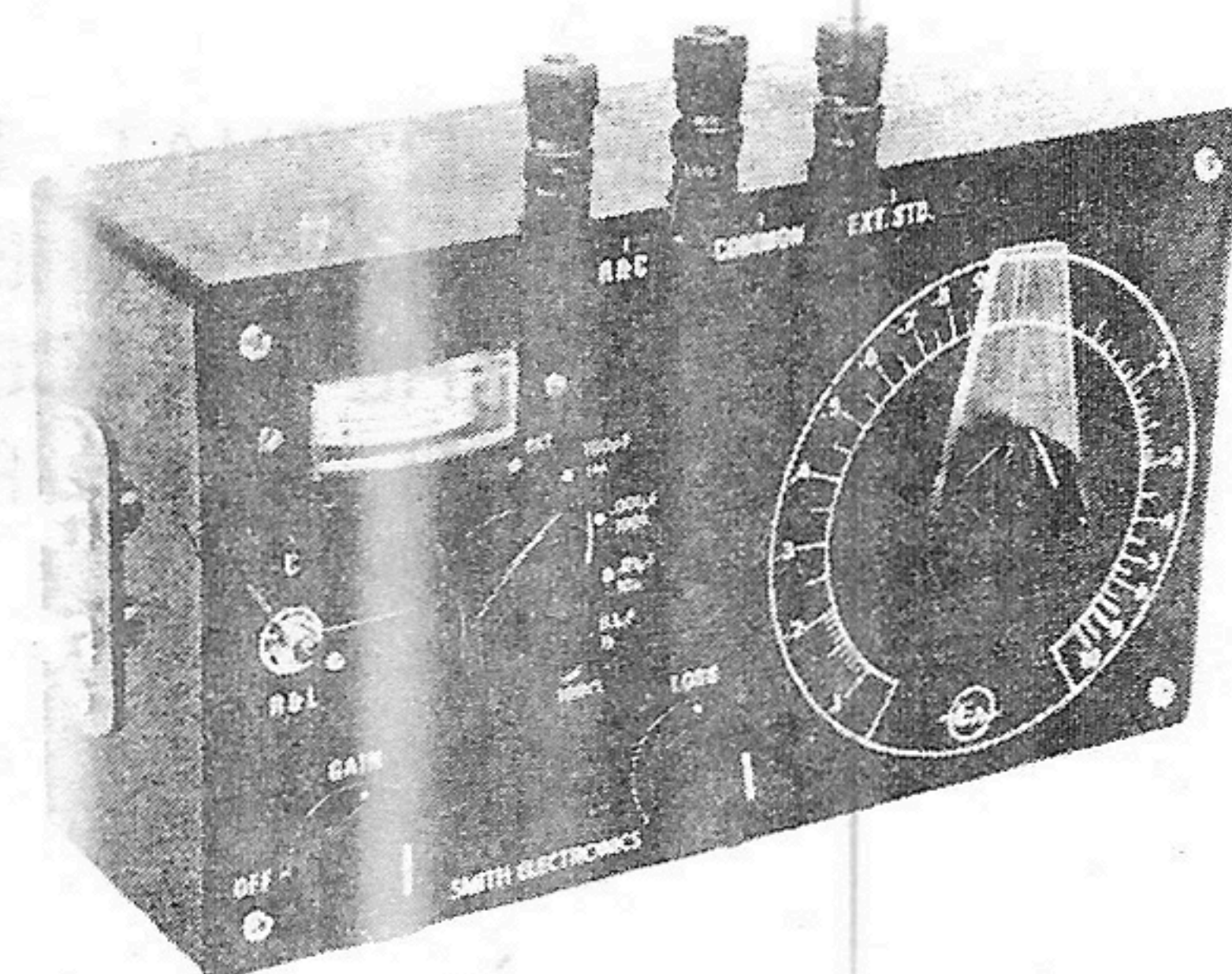


Cat K-3134

The cheapest way for a novice to get going on 80m. Use your old CB radio and transvert it up to 80m. Maximum power output is 10W on AM, 30W PEP on SSB. Surprisingly easy to build - about 4 hours work. Fibreglass PCB is standard to make it easy for you. Supplied with a 23.570MHz xtal which allows the following conversions:

3.535MHz - 27
3.545MHz - 27
3.555MHz - 27.1
3.565MHz - 27.135MHz

Measure unknown components R-L-C BRIDGE

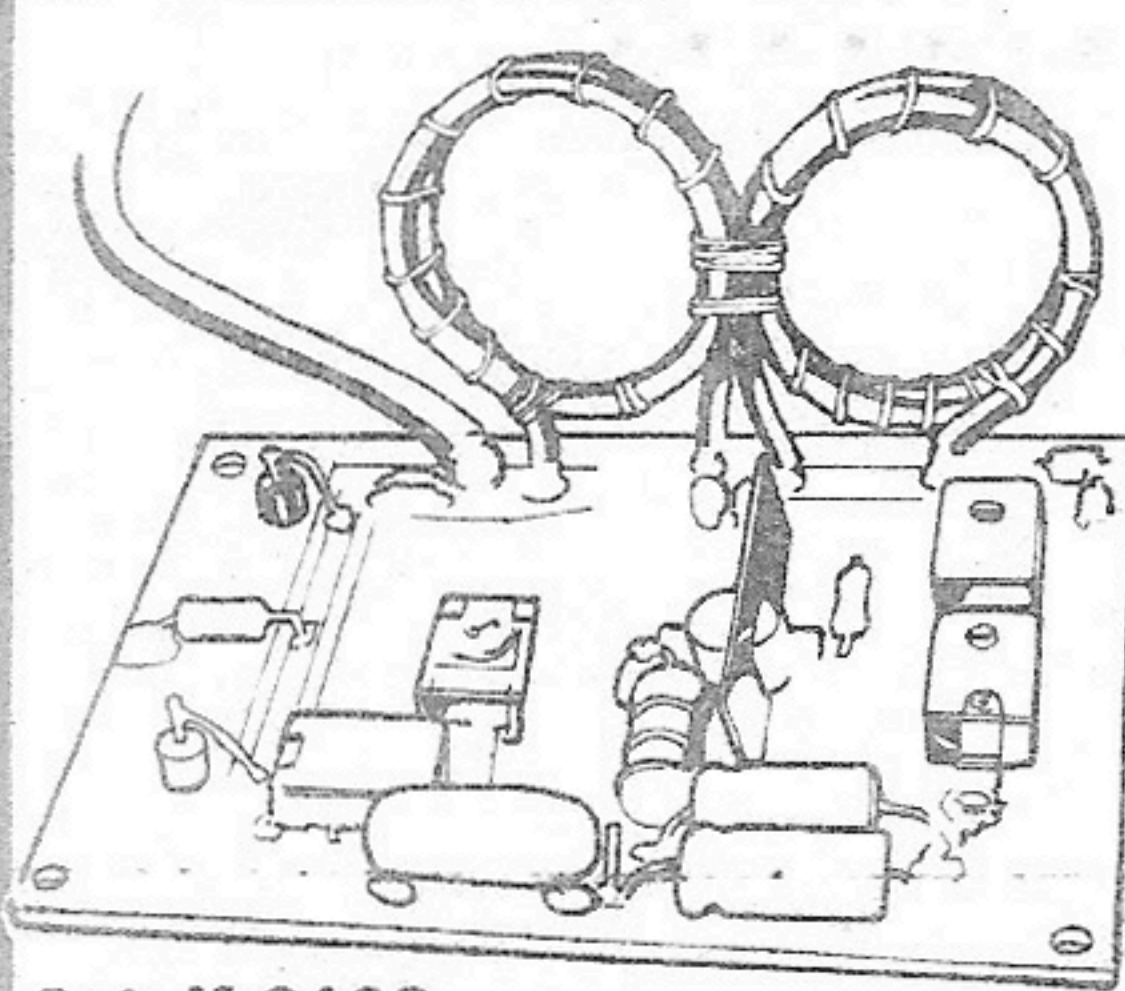


SEE E.A. MARCH 1978

Check the values of new and used components and determine the actual value of wide tolerance capacitors such as electrolytics and ceramics. Ten ranges include measurements from 10 ohms to 10 megohms and from 10 picofarads to 10 microfarads... plus inductive measurements down to a few hundred micro-henrys. The tried and proven Resistance, Inductance, Capacity bridge is a handy, easy-to-use piece of test equipment. Runs from 9V battery supply. Complete kit of parts includes specially printed front panel. S-3006 9V battery 45c extra

Cat. K-3438 ★.....\$34.50

2 METRE AMPLIFIER



Cat. K-3132

45 WATTS
ONLY \$29⁵⁰

Yes! A fantastic 2 metre amplifier kit of the simplest construction. Uses the 2N6084 transistor to give 45 watts out from 8-12W drive. Runs from 13.8V. complete kit includes detailed instructions.

Diecast box to house and protect the amplifier. Cat H-2205.....\$6.00

NEW! 2 METRE CONVERTER

This simple, low cost 2m converter employs the latest design techniques and components to produce a highly sensitive, low noise converter of exceptional stability. Covers the full 144-148MHz band with an IF of between 26 & 30MHz (suitable for use with any sensitive receiver such as the FRG7. Highly suited to OSCAR operation.

Cat K-3482.....\$24.50