

TASMANIAN AMATEUR RADIO

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as a Publication.
Category B

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

OCTOBER 1979

price 40c

VOLUME 9 No7



P.O. BOX 275
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"I will see you at
T.A.R.C. Nov. 17th & 18th
1979"



BOOKS

GAMES

CONTESTS

USED EQUIP.
SALES

OLD & NEW
FRIENDS

Equipment Auction
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FUN!!

Home Brew
Competitions

FOX!
HUNTS

TRADE
DISPLAYS

EDITORIAL by Ken Kirkman VK7ZKT.

Last month I said that the October issue would be a special for TARC..As you can see it is'nt; I'm afraid I made the comment a month early..So all those who were going to send in articles, please do'nt let me put you off..I'll even make sure the post box is kept empty in order to cater for the rush ? Seriously,original articles are badly needed ; Thanks to Adrian VK7ZAT for his excellent contributions.....A couple of personal observations that I would like to make ; firstly to those readers that do not seek to involve themselves in WIA activities then I would like to say that you only get out of something what you put in.....

Secondly that it is gratifying to see the infusion of activity that the new venue for the North West Branch has brought and also that dependng on decisions,that the Southern Branch make,then that Branch may move into the 80's,with a renewed vigour.

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FANCY DRESS SOCIAL FANCY DRESS SOCIAL

B.Y.O. 5th OCTOBER at 8 PM at the RIVERSIDE
COUNCIL CHAMBERS...TICKETS AVAILABLE at only
\$3.00 each from ANY MEMBER of the LADIES
COMMITTEE or THRU the BRANCH.....TICKETS WILL
ALSO be AVAILABLE at the DOOR.....THERE WILL
BE a PRIZE for BEST COSTUME and LUCKY DOOR PRIZES.

----- MEETINGS-----

Southern Branch	;	SES Rooms Melville St Oct 3rd 8 PM
Northern Branch	;	Clubrooms 34 Bourke St Oct 12th 7.45 PM
Nort West Branch	;	Penguin High School Oct 9th 7.30 PM

NORTHERN BRANCH NOTES by Ken VK7ZKT

The Northern Branch held their General meeting at the Bourne St clubrooms on the 14th of September, with 24 members present.

Minutes of the previous meeting were read and accepted.

Equipment Store David VK7YY reported that trading for the month totalled \$94.40. The store will in future be held at the clubrooms, so anyone requiring store items then please contact David to arrange a time to collect from the store.

Raffle A raffle for TARC is being distributed to all Branches and it is hoped that all members buy tickets and support efforts to finance this year's TARC.

Registration forms for TARC ; A number of registration forms have already been received by the Branch and the early response is very pleasing.

General Business In discussion a number of points were made in relation to the Sunday morning broadcast ;

(a) Lack of consistency with relay on 80 metres. In reply to this it was pointed out that the lack of involvement in the relay caused rostering problems.

(b) Passing of material for use, immediately prior to the Broadcast. Discussion on this showed that although it was undesirable, the shortage of material available to the person originating the Broadcast, forced the acceptance of last minute material.

(c) Possibility of night time broadcast on 80 metres. In response it was pointed out that members were canvassed in the past on this subject and indicated that they preferred the existing time. After further discussion it was resolved that the Northern Branch conduct a Broadcast and call back on 3.572 MHz at 1930 hrs on October 14th. It was further agreed to notify the P&T Dept of this intention.

The meeting closed at 9.25 PM and then participated in an auction of books and surplus gear from the shack of Ed VK7ED. This was in a good cause and was well supported. Some of the bits were in closed containers, but judging by the eager bidding on some items it was obvious some had inside information. The Branch itself purchased some of the reference books to add to its library.

Next Meeting Executive; 28th September

General ; 12th October

WANTED....WANTED....WANTED....WANTED....WANTED....

DONATIONS OF SURPLUS EQUIPMENT, BOOKS, ETC.

FOR TARC 79 AUCTION -- ANYTHING THAT YOU

COULD SPARE WOULD BE APPRECIATED. CONTACT

DAVID VK7YY (261880) OR PASS ON TO THE

NORTHERN BRANCH THRU ANY DIVISIONAL CL

EMBER.

This easy modification gives a second channel at the flick of a switch which can be installed on the mike ; ideal when you are operating mobile.

The unit consists of two separate circuits ;

(1) Auto Simplexer

Will give simplex operation on any pre-selected channel, where the simplex/duplex switch can be in any position.

(2) Priority Channel

This disconnects the channel switch on the IC22S and switches to a separate set of matrix diodes to give a preset channel.

Construction

The circuit was built on a piece of 0.1 space veroboard (9 by 18 holes approx). The veroboard is attached to the oscillator shield on the left hand side of the PLL board. Wire brackets that are soldered to shield and vero will hold it in place.

The wire from the wiper of the channel switch is disconnected and put to +9V on the board (point A). The new wire from point B is connected to the wiper of the channel switch.

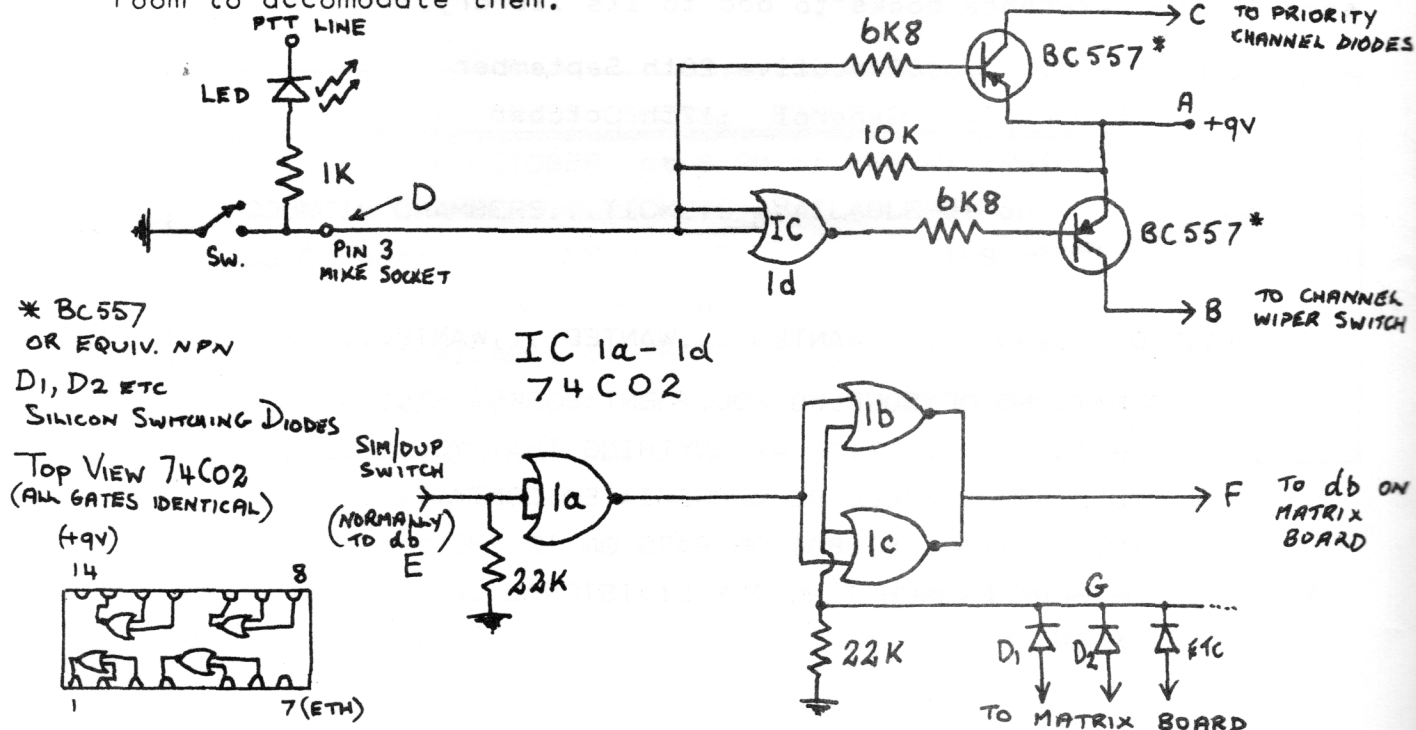
The matrix diodes for the priority channel are put in position 23 on the matrix board and wired to point C. (use programming chart)

Point D is wired to the unused pin 3 on the mike socket.

Remove the wire from the simplex/duplex switch and connect the switch to point E. The wire that was removed then connects to point F. (other end of this wire goes to 'db' on the matrix board)

The diodes D1, D2 etc, where fitted onto the matrix board (one for each channel required) have their anodes commoned and then connected to point G.

The spare mike line should be connected in the plug (pin 3) and wired to the switch in the mike. The positioning of the switch and the LED are left to the individual but there is plenty of room to accommodate them.



NORTH WEST NOTES
===== by Jim VK7NOW

The usual monthly meeting of the Branch was held at the Penguin High School on 14th September and was well attended..There were three visitors welcomed,namely Reg,VK7KK who journeyed from Launceston and Nancy Emmerson with OM Peter.

The minutes of the previous meeting were read and confirmed and in the Treasurers report Ivan VK7ZOA/NOA brought the meeting up to date on the financial standing of the Branch.It was decided to try to increase the working capital by fund raising.

David Morgan,proposed by Winston VK7EM and seconded by Paul VK7PB was welcomed to the WIA.

The Giant Raffle which was donated by courtesy of Roelf Vos at Ulverstone was drawn by Reg VK7KK and won by Kirby VK7KC.

Tony VK7AX advised that testing was to be carried out on the Lonah repeater.The 70 cm beacon was out of operation for the time being.

On activities,Vince VK7NVH,outlined those by the H.F. group held at the Penguin High School ; he would like to see more members of the Branch become involved..Vince also told the meeting,that the HF group were planning to organize a J.O.T.A. base and that it was proposed to send aloft a large Helium-filled Balloon carrying a long wire for an antenna.(Perhaps there would be sufficient hot air available - Hi)

ATV/VHF groups ; Winston VK7EM transmitted some good quality ATV from his home QTH to the ATV group,at their last meeting...Paul VK7PB advised that the ATV group is extending its activities across to VK3.

In the Microprocessor group,Steve advised that this group wished to monitor propogation across the Strait,such as what signals were available in the vertical or horizontal plane..The microprocessor would keep track of time,signal strength etc.It is intended to use the unit in a universal way,with the addition of suitable hardware.

Reg VK7KK gave a talk on the book "500 questions and answers for the novice".

Brian,VK7NBH gave details of some very interesting Raffles,that now are available on behalf of the High School funds..Members show their appreciation of the use of the Schools facilities,by assisting with these raffles.

The activity for the night was arranged by Paul,VK7PB in the form of a most interesting video-tape,the well known "G6-CJ Aerial Circus". Much has been written in the various electronic magazines,regarding these tapes,which were recorded at Flemington in Victoria.

The lecturer gave most impressive demonstrations,both visually and audibly,of the various types of HF,VHF and UHF antennae..The audio signal derived from the loop,when waved about the various antenna that was under demonstration,showed in no uncertain manner,the Polar Pattern the effect of reflectors,directors,radials,height above ground and so on..Amost interesting display.

The meeting concluded with a very FB supper,prepared by the Devonport members..David,VK7SM when washing up,looked most attractive in an "off the shoulder"apron,tastefully caught at the waist by an alligator clip..Thanks to members for bringing supper ; we had plenty.

See you at the next meeting ...Jim

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Heathkit One Kilowatt dummy load \$35.00

Heathkit 100 to 1000 Mhz SWR meter \$235.00

3 foot base loaded CB aeralas either trunk or roof mount \$8.00

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 power supply complete going only \$250.00

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AWA MR3B low band FM transceivers \$6.00

Joe Gelston

SOUTHERN BRANCH NOTES by Sue VK7ZSU/NSU

At the last Southern Branch meeting, two nominations were received for membership ; Peter Hutton, who is studying for his novice exam ; and Shane Burgess, VK7NXB. Welcome to the WIA, Shane and Peter.

Greg, VK7FT has asked for anyone who is able to help with the next Jamboree of the Air, to please let him know. This weekend is on the 20th and 21st of October and is extremely worthy of support. (Just think of all those budding amateurs.)

Reports were received from various sub groups ; The 6 metre beacon committee are busily constructing aerials (two in fact) as they will be safe, if struck again by the evil winds of Mt. Nelson.

The Southern Branch equipment store has purchased some equipment recently ; The rack of equipment is 6ft by 2ft in size and consists of
 Shelf 1 ; 2 metre exiter; 1 watt output
 Shelf 2 ; 2 metre 20 watt PA and 10 watt tripler
 Shelf 3 ; Receiver-complete; 70cm to 600 ohm audio out
 Shelf 4 ; Power supply
 Shelf 5 ; SWR meter

Plus a few bits and pieces including tone encoding and decoding equip. This monster is presently tuned to 480 MHz and anyone interested to please contact Lex VK7ZXJ/NXJ.

NEXT GENERAL MEETING-TOPICS FOR DISCUSSION

Subjects to be discussed at the next meeting include discussion of the proposed Tasmanian Devil Award ; next years subscriptions and there will be a raffle (as well as the TARC raffle)

It is presently proposed to have two short talks at the next meeting. One will be given by Chas Harrison VK7CH on the use of the QSL Bureau ; and the other on the Amateur Advisory Committee by Ian VK7ZZ.

The main topic of the evening will be the future of the building fund/clubrooms. This is in view of recent enquiries as to costs involved in building our own clubrooms. The executive would like all members to come and decide once and for all, the future of the clubrooms... If we opt for staying in SES rooms which have already been offered, then what do members think as to what equipment should be bought.

Please come and let your decision be part of the final one. At the last meeting of the executive it was decided to recommend to the next General meeting that we opt for use of SES facilities.

W.A.G.S.

The next W.A.G.S. function is the Square Dance to be held on Sat the 27th October, at the Howrah Infants School. The tickets cost \$2.50 for children and \$4.00 for adults and should be available from the next meeting of members..

Also at the next general meeting orders can be placed for wine for bottling at the December function. Cost of white (Moselle) is \$1.30 per bottle and the Port is \$1.50 per bottle or \$4.50 per flagon. Any orders that do not have money accompanying them, then if still outstanding by the November meeting, will be declared void, to allow others to purchase wine.

The next W.A.G.S. meeting is to be held on the 14th November and anyone interested is invited to attend ; contact Judy Boon or Andrew VK7AW for details.

A CRYSTAL MARKER GENERATOR

FROM LF TO UHF - - -

INTRODUCTION

A most desirable adjunct to the test equipment in any shack is a crystal locked oscillator of known frequency. Such a device could serve as a band edge marker, a weak signal source or as a test signal. Desirably, all these functions could be carried out with the one device, the oscillator frequency being adjustable to enable it to be zeroed on WWV etc. The marker generator described is excellent for these purposes.

One parameter which has always been a problem has, in the past, been the spectrum of the oscillator. In general, oscillators with harmonics at say, 1MHz intervals, were rarely useful above about 100MHz at best. Those with harmonics past 100MHz used crystals rarely lower than 8MHz which made them of restricted use.

Over the last several years, the writer has built many test oscillators with the aim of having a generator producing spots 1MHz apart from 1MHz through to 1296MHz. This article draws attention to a circuit which easily achieves these parameters.

THE CIRCUIT

The oscillator circuit is essentially an aperiodic Butler oscillator. The frequency is adjusted by means of the series trimmer. Q3 acts as an emitter follower buffer to drive Q4 and Q5 which form a Schmitt trigger delivering a square wave with very fast rise and fall times.

The transistors specified in the original article for Q4 and Q5 were BSY21s. However, types such as the 2N3564, 2N5770(PN5770), 2N918, BFY90 etc make excellent substitutes. (According to 5MM, 2N914 and 2N2222 transistors have been used but information as to signal strength on 1296MHz is not available).

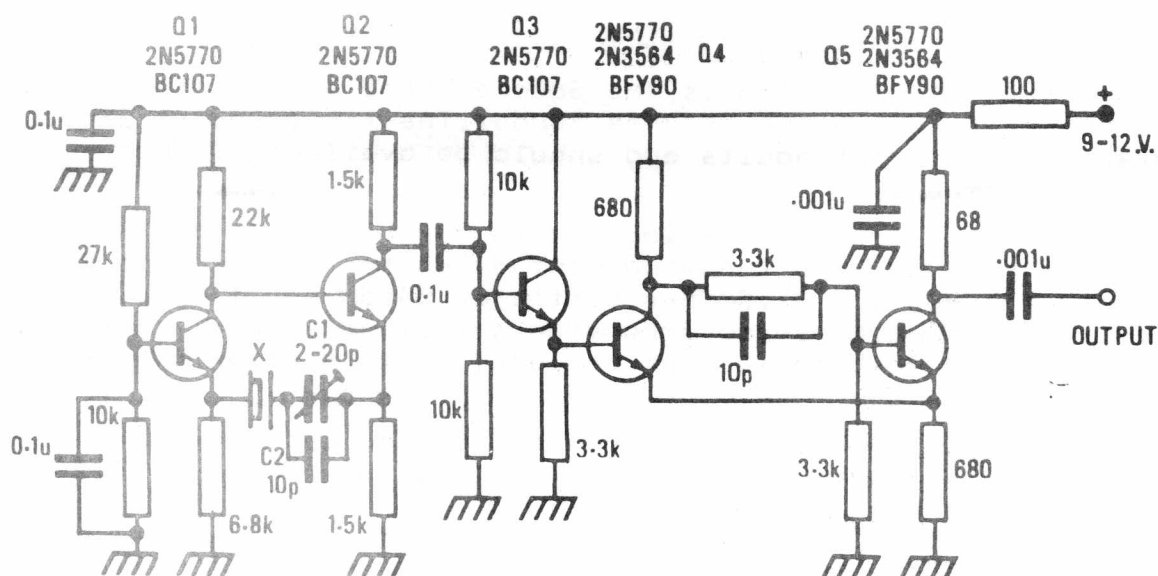
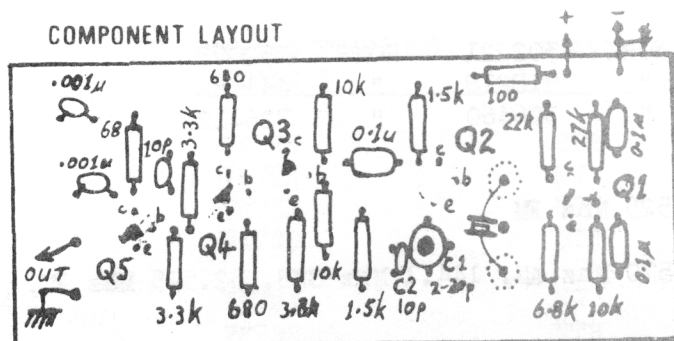
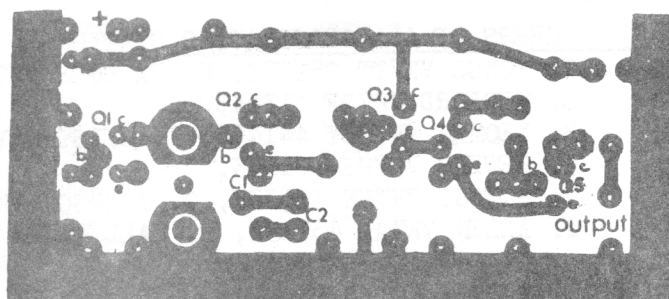


Fig.1. MARKER GENERATOR CIRCUIT



by Rod Graham VK2BQJ

PC BOARD copper side



PERFORMANCE

As the crystal is not mounted in an oven, and often the harmonic of interest is several hundred times the crystal fundamental, temperature changes should be avoided. e.g: enclose crystal in a polyurethane block etc. For a similar reason, the power supply should be well regulated or aged batteries used.

Up to 100MHz, the spots are many dB over S9, likewise on 144MHz. On 432MHz the spots were S9 when the unit was a few inches from a 5QZ/6SS/6UP type converter front end.

On 1296MHz, the spots were around S2/3 when the unit was either coupled into the converter via a piece of coax or via a few inches of wire into the RF cavity (diode mixer type converter).

This circuit is highly recommended. A 100kHz crystal has been tried and gives usable harmonics to 432MHz. However, for crystals lower than 1MHz, more series capacitance is required. As crystals vary, this should be determined by experiment.

FOR SALE FOR SALE FOR SALE

DRAKE SSR-1 COMMUNICATIONS RECEIVER 0.5 - 30 MHz
 CONTINUOUS COVERAGE....WADLEY LOOP SYSTEM.....
 EXCELLENT CONDITION THROUGHOUT...HANDBOOK INCLUDED
 \$200 ONO PHONE NEIL (004423305 bus hrs)
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VK7 NEWS BROADCAST ROSTER : OCT 1979 TO MARCH 1980CO-ORDINATORS.

NORTH WEST	VK7TT	PHONE WORK	302221	HOME	252073
NORTH	VK7ZBY	" "	918218	"	441466
SOUTH	VK7GD	" "	306460	"	726412

RE-BROADCAST FREQUENCIES

NORTH-WEST	REPEATER 3, 52.525 Mhz FM
NORTH	" 8
SOUTH	" 2, 28.570 Mhz AM, 144.1 Mhz SSB, 52.525 Mhz FM, 435 Mhz FM.

RE-BROADCAST STATIONS.

NORTH-WEST	VK7s	AX, TT, MX, ZPB, ZIE, NOW, NVH, EM.
NORTH	"	ZBY, PF, HE, JV, NJD, RH, GW, KK, JG.
SOUTH	"	ZJG, PS, BJ, AL, ZAJ, ZZ, RR, HK, ZTA, AW, N(Z)XJ, NAD, PA, RM, NHT, NRT, GM, PH.

HOME TELEPHONE NUMBERS OF ALL ORIGINATING STATIONS

NORTH-WEST	T. TONGS VK7TT 252073, K. HANCOCK VK7KH312164, M. IVES VK7MX 278973 S. MEDFORD VK7SF 313943.
NORTH	B. YEOMAN VK7ZBY 441466, J. GELSTON VK7JG 443882, R. HARWOOD VK7RH 442324, H. HEWENS VK7HE 391863.
SOUTH	H. SKEGG, VK7HK 436337, G. JOHNSON VK7GD 726412, J. BROWN VK7BJ 281328, T. ALLEN VK7AL 439192, P. HALL VK7PH 546146.

VK7 NEWS BROADCAST ROSTER NOTES

1. The Sunday morning news broadcast is authorized by the Divisional Council to allow the exchange of news related to Amateur Radio, and as such no personal advertising is allowed. Equipment handled by Branch stores is not classed as advertising, and therefore can be mentioned, the price, however, cannot.
2. For the benefit of all originating stations, the broadcast is to start at 0930 hours local each Sunday morning but, contrary to popular belief, is allowed to exceed 30 minutes if required.
3. All stations originating on 40 metres, or 40 meter relay stations are requested to come up on broadcast frequencies at 0915 hours local, to allow relay stations to align their equipment. The official frequency for VK7WI/P on 40 meters is 7130 Khz SSB $\pm$ QRM.
4. To provide for novice participation, there will be a relay of, or callback, after each broadcast on 80 meters conducted by designated stations. The callback frequency to be used is 3570 Khz SSB $\pm$ QRM.
5. If, in the opinion of the broadcast officer, any letters or personal comments are of a controversial nature, they should be passed onto the divisional council before being included in any broadcast.
6. Originating and relay stations of VK7WI/P are to keep a Log Sheet of the Sunday morning news broadcast. These log sheets, which are available from Branch Co-ordinators, should be forwarded to the Divisional Secretary at the close of each Broadcast roster period.

ROSTER

DATE	ORIGINATING STATIONS SEE NOTE 3	BRANCH	80 METER RELAY/CALLBACK SEE NOTE 4	REP 8 - 40M N.B. ONLY
Oct. 7	VK7HK	STH	VK7GD	
14	VK7KH	NW	VK7NOW	
21	VK7HE	NTH	VK7NJD	
28	VK7GD	STH	VK7GM	
Nov. 4	VK7MX	NW	VK7NVH	
11	VK7RH	NTH	VK7PF	
18 (TARC)	VK7ZBY	NTH	VK7KK	
25	VK7SF	NW	VK7NOW	
Dec. 2	VK7JG	NTH	VK7NJD	
9	VK7BJ	STH	VK7GD	
16	VK7TT	NW	VK7NVH	
23	VK7HE	NTH	VK7PF	
30	VK7AL	STH	VK7GM	
Jan. 6	VK7KH	NW	VK7NOW	
13	VK7RH	NTH	VK7NJD	
20	VK7PH	STH	VK7GD	
27	VK7MX	NW	VK7NVH	
Feb. 3	VK7ZBY	NTH	VK7PF	VK7GW
10	VK7HK	STH	VK7GM	
17	VK7SF	NW	VK7NOW	
24	VK7JG	NTH	VK7NJD	
Mar. 2	VK7GD	STH	VK7GM	
9	VK7TT	NW	VK7NVH	
16	VK7HE	NTH	VK7PF	
23	VK7BJ	STH	VK7GD	
30	VK7KH	NW	VK7NOW	



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Accessories. Antennae and Fittings. Novices check
us now for a really good deal.



STATE DIVISIONAL NEWS
===== by Reg Emmett VK7KK

6 Metre Repeater ; Permission has been given by P and T for the establishment of these in areas where there would be little conflict with channel O TV..In order to ascertain the possible demand for such a facility in VK7,could anyone with ideas on their possible use in this State,please contact Peter Frith VK7PF..Such things as frequency seperation,suggested use and channelising would be of concern..Is there demand for a linear device,to allow operation from disadvantaged sites?

RD Contest ; Council has spent much time discussing the pros and cons of rule changes..If you have any constructive comments or,perhaps ideas for,a formula to take into account all licencees,then please lets hear from you.

Considerable effort was made this year to obtain logs from two VKO stations..We obtained permission from the Contest Manager for a time extension and for him to accept an abbreviated log.

Devil Award ; Thanks to those who submitted comments..They are being considered and a final draft should be available soon.Samples of artwork for the certificate,are expected to be available at the October council meeting.

Next Council Meetings ;

On Air 3593 KHz ; Tuesday 2nd October 8PM

Ian Nichols VK7ZZ Cressy St.NewTown ; 20th October 2PM

WICEN ACTIVITIES (Southern Branch)
=====

Southern Branch Wicen members have been particularly energetic recently and have organized in the near future a Wicen exercise.This is to be held in conjunction with the Police Search and Rescue squad on the weekend of 6th to 8th October;It appears this will be a tryout for Wicen as far as the Police are concerned..This is an opportunity to reinforce the favourable impression gained by the Police during a recent demonstration of amateur communications.

The exercise will be based in the Lake Pedder/Mt.Anne area..The communications will be using HF and VHF on phone and telytype.Equipment will include 2 portable HF rigs;2 portable and 2 handheld VHF rigs.

The aim of the exercise is to establish comms between ;

- (a)Field headquarters and Hobart - HF
- (b)Field headquarters and field parties - VHF
- (c)If possible between field parties and Hobart on VHF,using a link up between channel 40,a field repeater and repeater 2.

Any station able to listen in to the field stations,are invited to call in on frequency and give a signal report,provided the frequency is not being used to pass messages..The probable frequencies to be used are 3600 KHz,7050 KHz and repeater 2.....

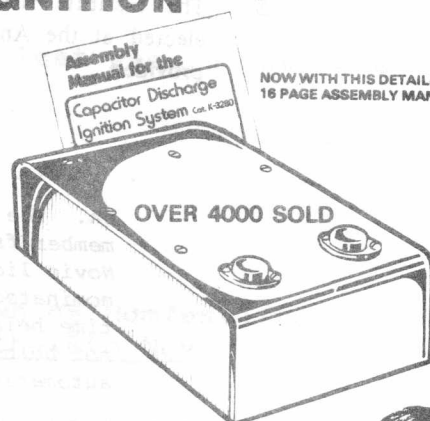
The first Wicen sked was held on Wed 19th Sept at 8.00 PM on 3570 and repeater 2; These are now held regularly every 3rd Wed of the month.

Wicen are also having a display stand at the next amateur radio convention (TARC) and any assistance will be gratefully received ; If you can help contact Andrew VK7AW...Talking of the Hamfest,it is hoped that as many Southern members as possible make it to Launceston and help make the weekend a success.

ADVANCED ELECTRONICS¹³

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

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Cat. K-3290 ★ \$27.50

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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 experimenters 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 ★★

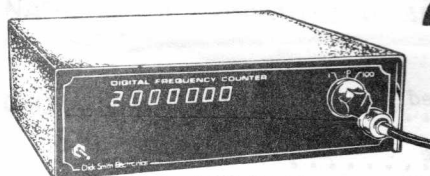
\$32.00



7 DIGIT FREQUENCY METER

COUNTS TO 40MHz — or to 200MHz

DESIGNED BY LEO 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

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Cat. K-3052 ★

\$19.75

SEE E.A. JULY 1978

NOVICE TRANSVERTER

\$89⁵⁰

HIGH POWER



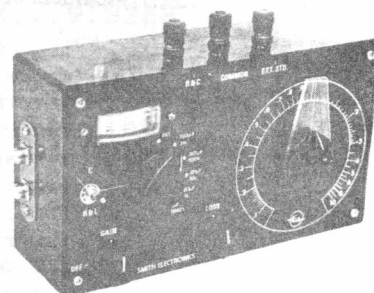
Cat. K-3134

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 transversions:

EXCLUSIVE TO DICK

3.535MHz 27 105MHz
3.545MHz 27 115MHz
3.555MHz 27 125MHz
3.565MHz 27 135MHz

Measure unknown components R-L-C BRIDGE



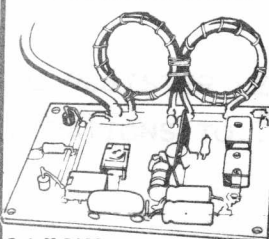
SEE E.A. MARCH 1978

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-3458 ★★

\$34.50

2 METRE AMPLIFIER



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.

Dissect box to house and protect the amplifier. Cat. K-2295 \$6.00

Cat. K-3132

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

Update your Articles of Association by replacing the following para

1. The number of members of the Institute is declared not to exceed 500.

5. The Institute shall be governed by a Council of 8 members to be elected at the Annual General Meeting of the Institute as hereinafter provided.

6A. The Council will consist of at least one member from each branch of the Division and one Novice licensee. In the event that no member is nominated from a branch, the president for the time being of that branch, or his nominee, not being a Novice licensee, shall become automatically elected to the Council.

6B. Election to the Council will follow this order:-

- (a) the member from each branch not being a Novice licensee registering the highest vote of nominees for that branch shall be first elected.
- (b) the Novice licensee member who polls the highest number of votes of Novice licensee nominees shall be next elected (save for clause 6B(c) hereof).
- (c) in the event that no nomination is received on behalf of any Novice licensee, that position will be declared vacant until the next Annual General Meeting of the Division.
- (d) the remaining nominees who poll the highest votes in descending order shall then be successively elected until a total of seven or eight members as the case may be shall have been elected in all.
- (e) the Council elected pursuant to this clause, shall be deemed to have the same powers and functions which it would have been able to exercise prior to the passing of this clause.

MEMBERSHIP

29. Members of the Institute shall be of two grades as follows:-

- (a) Grade A - Members, Bona Fide experimenters or those interested in the scientific study of radio communication or electronics who shall have attained a standard equivalent to the necessary for the issue of an Amateur Operator's Certificate of Proficiency of any level. The Council shall have power to investigate qualifications of all applicants for membership in Grade A including those who are already Associate Members and its decision shall be final. A holder of a Novice license shall remain a Grade A member until the Annual General Meeting next following the termination of that license provided that the termination thereof is due only to effluxion of time.

TASMANIAN AMATEUR RADIO CONVENTION 15

- * See the latest in Amateur transceivers, accessories, home computers, test equipment etc;
- * Operating equipment - all bands, all modes; ATV ; RTTY
- * Competitions - homebrew equipment; new style fox hunts
- * Workshops and seminars on new techniques including demonstrations of home computers and the latest in transceivers
- * Plenty of activities for all the family
- * Meet and chat with those you have'nt seen since last year or perhaps only spoken to on air.

REGISTRATION FORM

Tasmanian Amateur Radio Convention (otherwise known as Hamfest) to be held at the Alanvale College in Launceston on 17th-18th November.

I wish to advise that the following will be attending for the

(a) Whole weekend

(b) Sunday only

NAME
(Surname) (Christian Names)

NAME OF ACCOMPANYING ADULTS
.....

CHILDREN : NAME.....AGE.....
.....AGE.....
.....AGE.....

RATES : WHOLE WEEKEND \$19.50 FAMILY
\$10.00 SINGLE
SUNDAY ONLY \$6.00 FAMILY
\$4.00 SINGLE

NOTE Whole weekend cost includes Saturday evening meal with drinks and lunch on Sunday.

I ENCLOSE CHEQUE FOR.....

ACCOMODATION If assistance with accomodation is required please
contact Brian Yeoman VK7ZBY Work...918288
Home...441466
or Ed Hewens VK7HE Work...329242
Home...391863

PLEASE REGISTER BEFORE OCTOBER 21st

REGISTRATIONS TO..... SECRETARY W.I.A. NORTHERN BRANCH
P.O. Box 275
Launceston TAS 7250

PHONE
35 1159 AFTER HOURS
ONLY
(VK7NBB)

VK ELECTRONICS
57 WEST PARK GROVE BURNIE 7320

PHONE 31 1708
(VK7ZNS / NNS)

DICK SMITH PRODUCTS

24 HOUR DIGITAL CLOCK MODULE	\$7.00
LOW LOSS COAX 50Ω 10MM DIAM.	\$1.35/M
RG58AU COAX 50Ω	0.40/M
1979 U.S. AND FOREIGN CALL BOOKS	\$20.00
1979 AUSTRALIAN CALL BOOK	\$3.25
50Ω 50W. RESISTOR NON INDUCTIVE	\$14.50
MULTITAP 10AMP POWER TRANSF.	\$5.50
'VK POWERMATE' TRANSFORMER 18V 6A	\$18.00
ZIPPY BOXES 150 X 90 X 50	\$2.95
AMICAL INSTRUMENT LETTERING BLK. WHT.	\$4.75
INSTRUMENT CASE 61 X 103 X 150	\$4.50
P.C. BOARD MINIATURE DRILL	\$15.95

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IC225 2M FM MOBILE PLL	\$299
IC551 6M ALL MODE NEW	\$799

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LEADER

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100KHZ TO 100MHZ	\$120
LDM-815 GRID DIP OSC.	\$89

2M 5/8 WHIP AND BASE	\$19
10M 5 ELEMENT BEAM	\$103

VKE PS79 13.8 VOLT REG. PWR.	} \$110
SUPPLY 12A CONT. 20A PEAK	
WILL OPERATE ALL 200W. SOLID	
STATE RIGS TS120S, 1C701, ETC.	

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