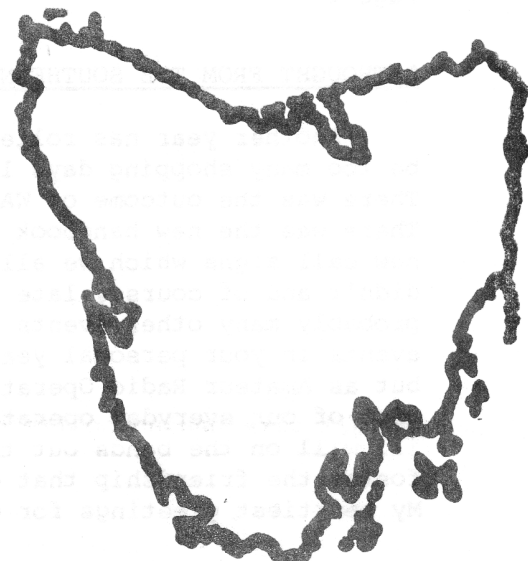


AMATEUR

RADIO

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

Registered for Posting
as a Publication,
Category B.



P.O. BOX 275
LAUNCESTON
TAS. - 7250

DECEMBER 1980 VOLUME 10 No. 11

Meetings:- South 3rd, North-West 9th, North 12th.

EDITORIAL

We never learn! It seems each time we've had a special general meeting something unsatisfactory occurs to make someone unhappy and feel that democracy doesn't exist. I guess the meeting held at T.A.R.C. fits that category in some ways.

The first motion which clarified associate members voting rights was passed however that to Modify Council Structure was not.

Those proposing that motion, had some well argued points and felt that their intentions were not appreciated by many who couldn't attend the meeting. It is apparent that the time is opportune to think out the structure of the W.I.A. in Tasmania and really any change necessary should ideally come from a consensus between all and not be obtained at a meeting. It is hoped that present discussions can establish the changes needed in Divisional Council and come up with generally accepted suggestions.

On a different note, congratulations to all concerned with T.A.R.C. - A most satisfactory activity. Appreciation is extended to superintendent and officers of the Department of Communications (formerly put) for their participation. It is unfortunate that more of our members were not prepared to travel distances to attend such events.

Christmas Greetings and may 1981 bring all that you desire.

A THOUGHT FROM THE SOUTHERN BRANCH PRESIDENT

Another year has rolled by and by the time you read this there won't be too many shopping days left before Christmas. But what of 1980? There was the outcome of WARC 79 about which we all heaved a sigh of relief. There was the new handbook and the new rules that went with it. A host of new call signs which we all welcomed and a rise in licence fees which we didn't and of course, late in the year third party privaleges. There are probably many other events I've missed but I do hope there were some good events in your personal year. Christmas is the time of universal goodwill but as Amateur Radio Operators we know that special goodwill as an integral part of our everyday operations. There will be times when we happen upon ill will on the bands but thankfully not often, Most of us will try to foster the friendship that goes with our hobby and find enrichment therein. My heartiest greetings for Christmas and may 1981 be a special year for you.

73

Barry VK7ZBF NBA.

If there is anybody considering taking up ice skating then contact Joe VK7JG on what not to do. Hope your fully recovered so Joe.

Congratulations to Phil and Joe Gelston on their new arrival.

WANTED:- For Repeater Tests

Crystal - 45.3333 MHZ or Close
by (Repeater 2 RX)

CONTACT; Peter VK7PF

FOR SALE: -

1 only FTDX 400 Yaesu HF Transceiver 560 watts p.e.p. output. Separate VFO, speaker to match and manual.

1 only H.B H.F. Linear Amplifier uses 2 x 811A output tubes

Interested Contact VK7DS: Phone Home: 002/296538
Work: 002/306175

FOR SALE:-

Model 15 teletype	-	\$40.00
5 element, 6 metre beam	-	\$5.00
TH3 Junior Beam	-	\$50.00

Contact: R EMMETT 003/ 312090 (Private)
VK7KK 003/ 443927 (Business)

SOUTHERN BRANCH NOTES

The next Southern Branch Meeting will be held on Wednesday the 3rd of December at the S.E.S. Rooms in Melville Street, starting at 8.00 p.m. sharp. Members are requested to donate an item of food from the kitchen or failing that, something from the shack for the christmas hamper. It is intended that this raffle will be drawn at the W.A.G.'s Christmas Barbecue. So far the hamper consists of one bottle of wine, so your support would not only be appreciated, it is essential.

This year the Christmas function will be the WAGS barbecue at the water works reserve on Sunday the 7th of December, starting at midday. There will be a charge of \$1.00 per Amateur or family group to cover the cost of salads, bread etc. It is a B.Y.O. Meat and Drink.

At the moment there is no firm date for the next S.B. Executive Meeting, but it is probable that this will be held towards the end of January. There will be NO JANUARY SOUTHERN BRANCH MEETING.

The proposed mini-hamfest organised by the WAGS will not be over the weekend of February, beginning March as previously advertised, but will be on the weekend following that - the 7th/8th of March, provided this does not clash with the A.G.M. and Dinner. If this is the case, then this weekend will be over the 21st/22nd of February. This event will be held at the Lake St. Clair National Park. More information regarding this function will be in the next QRM.

73

Sue VK7ZSU

TEAR-OFF HERE

NOMINATION FORM FOR THE SOUTHERN BRANCH EXECUTIVE

I, nominate call sign

for the position of on the

Southern Branch Executive for the years 1981

proposed call sign

seconded call sign

signed (BY Nominee)

..... (Date)

NORTH-WEST BRANCH NOTES

The usual monthly meeting brought another good attendance of members approximately 30 in all.

MINUTES of the previous meeting were read and confirmed.

CORRESPONDENCE Outwards - Letter written to Tas. Film Library for Childrens films for TARG.
 Inwards - Several letters were received for CLUB STATION VK7NW for their part played in J.O.T.A. (Your scribe was lucky enough to contact the World Headquarters Station GW2 WSB - near Windsor Castle. The operator had 2 overs with the guides of Brownies in the shack).

COUNCIL Ivan VK7XL gave details of the recent meeting.

TREASURER Bruce VK7ZDY presented an up to date report to the meeting.

MEMBERSHIP Max Boskell, VK7ZME, of Devonport was unanimously elected to membership and welcomed to the Branch.

TARC Don VK7DP, the chairman of the Organizing Committee gave the meeting details of progress. (This is now history! Jim).

QSL BURO Don VK7DP gave details of Pirate activities. Some QSL Cards have been returned to the Branch.
 BRIAN, VK7NBH gave a short talk on "BUNDLING" - an old Scottish custom. Ask Brian for details.

Supper, served by the ULVERSTONE MEMBERS, concluded the evening.

Until next time,

73
JIM VK7NOW

"TOPICAL TOPICS"

At the Special Examination held in the Burnie Tech. on Tuesday 18th November - for members of the class coached by Peter, VK7BQ and held over the past months each Thursday night at CLUB HEADQUARTERS, "Z" CALLS and NOVICE CALLS will be heard on the air around the end of December. Your scribe, perhaps "missed the big one" by about 4 marks or so.

However, for myself and others who may have missed, as our Mexican friends would say "There is always MANANA".

On behalf of our members, I would like to thank MR. MELLING of the Dept. of Communication for putting this exam on, and everyone was unanimous in saying thank you to the examining officer, Mr. MARSH for the courteous and efficient manner in which he conducted the Examinations.

73
JIM VK7NOW

ADVANCED ELECTRONICS

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

KENWOOD

TS.130S. TRANSCEIVER. \$847
 TS.830S. TRANSCEIVER. \$1193
 TS 520SE. TRANSCEIVER. \$800
 TL 120. 100W LINEAR AMP. \$258
 PS 30. 20 AMP SUPPLY. \$225
 AT 180. ANTENNA TUNER. \$185
 VFO 230. EXTERNAL VFO \$348
 SP.180. EXTERNAL SPEAKER. \$75
 MC 35S. H/H MICROPHONE. \$33
 MC 50. DESK MICROPHONE. \$65
 TR 2400. 2M. 800 CHN. H/HELD. \$385
 TR 9000. 2M. ALL MODE. \$625
 HC 10. DIGITAL HAM CLOCK \$113

KENWOOD R1000 \$541
 GENERAL COVERAGE RECEIVER.

ANTENNAS 2M.

1/4 WAVE F/GLASS WHIP. 146.5 MHz \$7-00
 1/4 WAVE S/STEEL WHIP. 146.5 MHz \$7-00
 5/8 WAVE F/GLASS WHIP. \$13-50
 5/8 WAVE S/STEEL WHIP. \$18-50
 8 ELE. 2M J.BEAM. \$58
 2M. RINGO RANGER. \$44

DICK SMITH

SYSTEM 80 COMPUTER
 LEVEL 11: 16K RAM: \$750

SPECIAL 1978. A.R.L. HAND BOOK

\$4.00

ROTATORS.

DAIWA DR7500x MED DUTY
 PRESET \$199
 DAIWA DR7600x HEAVY DUTY
 PRESET \$269
 CROWN ROTATOR COM. WITH
 10 M 36ORE CABLE. \$110

KITS

6 DIGIT CLOCK 12-24 HRS. \$23-00
 SINE & SQUARE WAVE OSCILLATOR
\$45-00
 R.L.C. BRIDGE \$43-00
 TRANSISTOR TESTER \$24-50
 ELECTRONIC KEYS. \$50-00

TEST EQUIPMENT

TR10. CS.1560A 15MHz DUAL.T.
 OSCILLOSCOPE \$720
 75mm LABORATORY 5MHz
 OSCILLOSCOPE \$225
 AC BRIDGE WITH SPOT
 OSCILLATOR \$99
 COMBINED MULTIMETER
 WITH TRANSISTOR TESTER \$63-50
 ARLEC YF370 MULTITESTER
 WITH HFE RANGE \$31-00
 DAIWA CN630 CROSS-NEEDLE
 140-450 MHz SWR/POWER METER.
\$135-00

HANIMEX

COMMODORE PET COMPUTER
 8K BASIC WITH MONITOR \$1295

DX NOTES

The following is a summary of news by Col VK7LZ

- (1) VK5ZBU was heard by VE1ASJ in St. Johns, New Brunswick, Canada at 0538Z on the 26th or 27th of November. A distance of 11,080 miles on 6 meters and has been confirmed on 28 MHZ.
- (2) VE1ASJ listens and transmits at 0530Z daily beaming VK5. Frequency is somewhere between 52 and 52.050 depending upon reception conditions in Canada.
- (3) VK7RTT BEACON was copied in Staffordshire, England by G4BPY and VK2's were also copied by G4BPY (I'm not sure, but I think cross-band 28 - 52 MHZ QSOS were made.)
- (4) If VK7's have 28 MHZ capabilities, listen our evenings for "G's" as some "G" stations are looking for Cross Band QSOS.
- (5) VK6RTT was heard S 8/9 in "G" land last Wednesday and Thursday nights local time (haven't exact times).
- (6) Also listen for WAIEXN who has a Beacon transmitting on 52.090 MHZ between 1000 - 1200Z and 2200 - 2400Z.

NOMINATION FORM FOR THE NORTHERN BRANCH EXECUTIVE.

I, nominate call sign for the position
 of on the Northern Branch Executive for the year
 1981 proposed call sign
 Seconder call sign
 Signed (By Nominee)
 (Date)

FOR SALE: -

- (1) 3 pair crystals to suit Yaesu FT 620 and FT 620B Frequency Coverage 50-62 MHZ - \$30.00
- (2) TS900, VFO 900, PS 900 300 watt 3.5 to 28 MHZ, mint condition, as new, - only 3 in Australia complete with service manual. - \$795.00
- (3) Tokyo Hy-power, HC 500A, 500 watt Ant coupler, as new, 1.8 - 30 MHZ - \$80.00
- (4) Hansen F.S. GOOA, pep Reading Watt Meter, 1 kw MAX, 1.8 - 30 MHZ, as new, Some good gear here for the offering. Interested? - \$65.00
 then phone (003) 317914

PLESSEY
Electronics



GELSTON COMMUNICATIONS

TWO WAY RADIO SALES & SERVICE

Postal Address:
P.O. Box 1311,
LAUNCESTON, TAS. 7250

40 Lavender Grove,
LAUNCESTON, TAS. 7250
PHONE: (003) 44 3882

CONTACT US FOR YOUR NEXT PURCHASE.

LAY-BY accepted Finance arranged

In stock for immediate delivery.

Jaybeam 8 element 2M yagis \$53.00

Ringo-Ranger 6dB gain 2M vertical \$55.00

IC-2A 2M Hand Held \$312.00

IC-HM9 Speaker-microphone to suit IC2A \$24.00

Heathkit BI-directional Wattmeter 100Mhz-1Ghz Cost \$210.00 will accept reasonable offer BRAND NEW.

AT200 antenna tuning unit \$120.00

Astro Scan Base Monitor Antenna covers 25-50, 140-170, 450-512Mhz \$60.00

FT22IR Two meter Transceiver with digital readout \$500.00

Reyco 40m Antenna Traps \$43.15 W2AU Balun with built in arrester \$34.50

Orders taken for all other ICOM equipment.

Icom IC-720 available next FEB. \$1379.00 Order now to avoid delay.

Most other equipment EX.Melbourne.

AUTHORIZED
DEALER

VICOM

VHF Notes.

As the month progressed so did 6M activity during the last week 6 has been open almost every day to VK or JA. Lionel VK7HL worked over 100 JA's during one opening.

The opening to KH6 provided many of the "new" calls with their best DX to date.

During the week VEIASI heard VK5ZBU and the VK6 beacon has been heard up to s9 in G land.

Some predictions say that this year will be the peak of the sunspot activity not last year so keep an ear on the band for that elusive DX I am sure it will pay off.

Once again 2M has also provided plenty of activity with several large inversions during the month.

Hobart stations were heard working simplex into Melbourne and many stations enjoyed the activity which we in the North take for granted.

73 till next year

Have an enjoyable Christmas.

Joe VK7JG.

STATE NEWSCouncil Meetings

Novembers' meeting was held during TARC. Eight new members were admitted.
Next Meeting, January 10th at A Boon, New Town 1.00 p.m.

Subscriptions

Note that the rates for 1981 are:

Full and Associate	\$24.50
Pensioner and Student	\$16.50
Family	P.O.A.

Our \$24.50 is about mid range of those in other states.

Annual Meeting and Dinner

This year is in Launceston, possible 21st March.

Northern Branch Broadcast Roster

M. Ives	December 7 and February 1	)	L. Harper	January 4
R. Harper	December 14 and February 8	)	D. Bailey	January 11
B. Yeoman	December 21 and February 15	)	J. Gelston	January 18
K. Kirkman	December 28 and February 22	)	A. Everts	January 18

Scramble Co-Ordinator:

December	- Andre Everts
January	- Les Harper
February	- Ken Kirkman

NOMINATION FORM FOR VK7 FEDERAL AND ALTERNATE FEDERAL COUNCILLOR.

I, nominate call sign

for the position of VK7:-

(Federal Councillor

(Alternate Federal Councillor

* DELETE THAT NOT REQUIRED

for the year 1981.

proposed call sign

seconder call sign

I, the proposed, here-by accept the nomination for the above position

Signed (nominee) (date)

Forward to P.O. Box 1010 by January 10th, 1981.

AMATEUR ADVISORY COMMITTEE

The last meeting was held on October 4th. The minutes of last meeting were read and confirmed. Minutes from VK6 also read with interest, no business arose from minutes.

A number of local matters were brought up and by now have been resolved but I will mention them for interest.

Scrambles - A report that stations, taking part in Northern Branch scrambles, were apparently not listening on transmitting frequency and not taking enough CARE to stop relaying stations from other bands.

Club Stations - The use of Institute call signs for other than Institute activities has led to some confusion. Remember when testing for broadcast purposes use your own call, someone else may be using Institute call for the same purpose.

Aeronautical or Mertime Mobile - Read regulation 6.27, 6.24. The use of radio equipment on an aircraft requires special D.O.T. approval. Not even the aircraft captain is in a position to give approval. This all stems from a mid air collision over New York which was partly blamed to the blocking of a Beacon by a receiver's local oscillator radiation.

The next meeting is to be held on December 6th, 1980.

73

PETER VK7PF

NOMINATION FORM FOR VK7 DIVISIONAL COUNCIL

I nominate call sign

for a position on the VK7 Divisional Council for the year 1981.

proposer call sign

seconder call sign

I, the proposed hereby accept the nomination for the above position.

Signed (Nominee) (Date)

Forward to P.O. Box 1010 by February 14th, 1981.

"SCENE AND HEARD" December 1980

We have come to the end of another year. Quite a lot has happened over the past 12 months, particularly on the HF bands. The Middle East provided much of the interest and excitement, with the capture of the American Embassy hostages by militant students in Teheran continuing. We heard in late April, the abortive rescue Mission by U.S. troops, and the aftermath of the raid. How that Government was practically at a standstill in Iran, that a Power struggle was in progress, for who does what. The various Factions both outside and within Iran, extensively used clandestine radio stations in their propoganda war, and still do today, but it somewhat declined of late, due to the current Conflict.

Also during the year, we witnessed the re-introduction of Jamming Signals on Russian language transmissions from the Western Countries after a seven year break. This was brought on by the delicate situation within Poland. This also induced a Frequency-hopping battle of wits between the broadcasters and Jammers. Another cause for the Jamming has been the Soviet Prescence in Afghanistan. We now know that the Programmes supposedly coming from Radio Kabul, do in fact come from within the USSR itself.

The deterioration in the International Situation brought about by the above, has been reflected in the attitudes and programme content of the stations. Economic conditions have also forced some broadcasters to reduce or even curtail programme output. We have seen the demise of such Programmes as Radio Australia's "Club Forum" BBC "World Radio Club" among others.

For example, the programme output of Radio Australia now mainly consists of News, International Report, and Music over a two hour period repeated over 24 hour day. Gone are the days of Listeners' Request Programmes, Special interest reports, etc. No wonder that the Popularity of Radio Australia has plummeted from its once high ratings. The dropping of the QSL cards was the last straw, as far as several DX organizations were concerned. Listen to Radio Australia for yourself and see how they have declined compared to BBC or even Radio New Zealand.

Incidentally, the BBC have several PTP SSB Relays of their Programmes. These provide interesting comparisons with their DSB transmissions. For example, the BBC World Service can be heard on USB on 20345 Khz at 1200 GMT whilst the LSB carries the Chinese Programme from the BBC Asian Service. Also try 23195 Khz at the same time, USB the W/S and LSB the Asian Service. Comparative DSB Signals are at this time 25650 (S/S) and 18080 (Asian Service).

The latest Radio Canada International Schedule received, shows an improvement in Eastern European transmissions. The major cutback appears to be programme output of Latin American transmissions. The best signals observed currently are 2130-2200 with their transmissions to Africa on 11945 and 15325 and on the latter frequency from 2200 to 2300 GMT both in English. The popular DX Digest with Ian McFarland can be heard 2130 to 2200 Saturdays and also between the 1900-2000 slot Sundays to Europe on either 11905, 15325 or 17875.

In conclusion, may I make a plea for more information for this column. If you have any loggings or snippets, please send them to me for inclusion in the February issue of QRM. May I wish all of you a very happy Christmas and the best of DX during 1981.

73's

from Robin L. Harwood

HOBBY ELECTRONICS

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GEILSTON BAY, 7015.
Telephone 43 6337

be on top of the pile

IT IS NO SECRET THAT YOU HAVE TO HEAR THEM TO WORK THEM.

Improvement in your antenna improves both transmitting and receiving capability. We achieve broadband characteristics by using up to four driven elements.
All antennas listed include balun for symmetrical and clean radiation pattern, and use "N" conns from 70cm up.

15/11/10 mx			Price
ATN 20-30-1 rotary dipole.....			\$33
10/11 mx model	Gain dbi	Boom	Price
ATN 28-30-3 or 27-29-3.....	9.7	3.5M	\$80
ATN 28-30-5 or 27-29-5.....	12.0	6.5M	\$135
ATN 28-30-6 or 27-29-6.....	13.2	8.3M	\$175
6 mx			
ATN 50-53-5.....	11.9	3.5M	\$85
ATN 50-53-8.....	14.2	5.5M	\$130
ATN 50-53-11.....	16.2	9.0M	\$165
2 mx			
ATN 144-148-8.....	12.7	2.2M	\$45
ATN 144-148-11.....	14.6	3.8M	\$55
ATN 144-148-16.....	17.0	6.3M	\$70
70 Cm Model			
ATN 420-470-6.....	10.2	0.6M	\$30
ATN 420-470-14.....	13.7	1.5M	\$45
ATN 420-440-11.....	16.7	1.85M	\$55
ATN 432-16LB.....	17.2	3.7M	\$80

UHF CB	Gain dbi	Boom	Price
ATN 47-5.....	9.2	0.65M	\$35
ATN 47-7.....	10.2	0.7M	\$40
ATN 47-11.....	17.0	1.7M	\$50
ATN 47-15.....	17.8	2.8M	\$60
Amateur TV Translator			
ATN 580-14.....	17.5	2.0M	\$50

Ferrite Baluns.	Ratio	Freq. Range	Price
200W Encapsulated 1:1.....		3-150 MHz	\$10.00
200W Encapsulated 1:1.....		100-600 MHz	\$12.00
200W Encapsulated 4:1.....		3-150 MHz	\$12.00
1 KW Encapsulated 1:1.....		3-100 MHz	\$20.00
1 KW Encapsulated 4:1.....		3-100 MHz	\$25.00

Insulators Heavy Duty

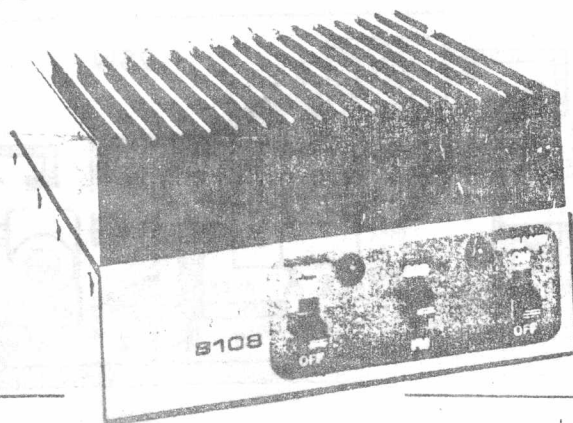
No.1 5/8 element on 2" boom.....	\$4
No.2 large 3/8 element on 1" boom.....	\$1
No. 3 small 3/8 element on 1" boom.....	\$0.70

Also available power dividers/couplers, quarter wave sleeve baluns and matching harnesses for stocks of two or more arrays. Low loss coax, coax connectors & adaptors including UHF "N" BNC etc.

NEW

GOOD NEWS FOR IC 202 USERS FOR COMING DX SEASON

MIRAGE COMMUNICATIONS EQUIPMENT (U.S.A.) have just released **MODEL B23** 2 watts in 30 watts out AM/FM/SSB Amplifier. Weighs just 0.5 kg 144-148MHz 13.6VDC at 4 AMPS. **\$119.00** Also available (ask out many satisfied users) —



MODEL B108

\$239

FEATURES:

- Built-in Receive Preamp.
- Adjustable delay for SSB.
- Remote control operation with optional RC-1 Remote Control Head.
- Conservatively designed custom heat sink provides more than adequate cooling.
- Automatic internal change over relay or may be keyed from the external transmitter.

SPECIFICATIONS

Frequency Range.....	144 to 148 MHz
RF Power.....	5-15 Watts in - 80 Watts nominal out
Modes.....	SSB, FM and CW
Receive Peamp.....	10 db gain min. - 2.5 + .5 db noise figure
DC Power.....	13.6 VDC 10-12 Amps
Size.....	5 3/8 x 3" x 8"
Weight.....	3 pounds

MODEL B1016

FEATURES:

- Built in Receive Preamp
- Adjustable Relay Delay for SSB
- Remote Control Operation
- Automatic internal change over relay or may be keyed from the external transmitter

\$359

MODEL B3016

FEATURES:

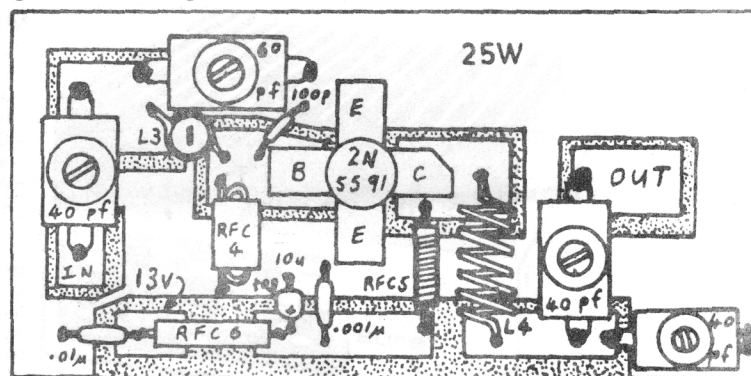
- Built In Receive Preamp
- Adjustable Relay Delay For SSB
- Remote Control Operation
- Automatic Internal Change Over Relay or May be Keyed From The External Transmitter

\$299

N.B. All Mirage amplifiers carry 5 yrs. parts & labour warranty except R.F. transistors which is 1 year

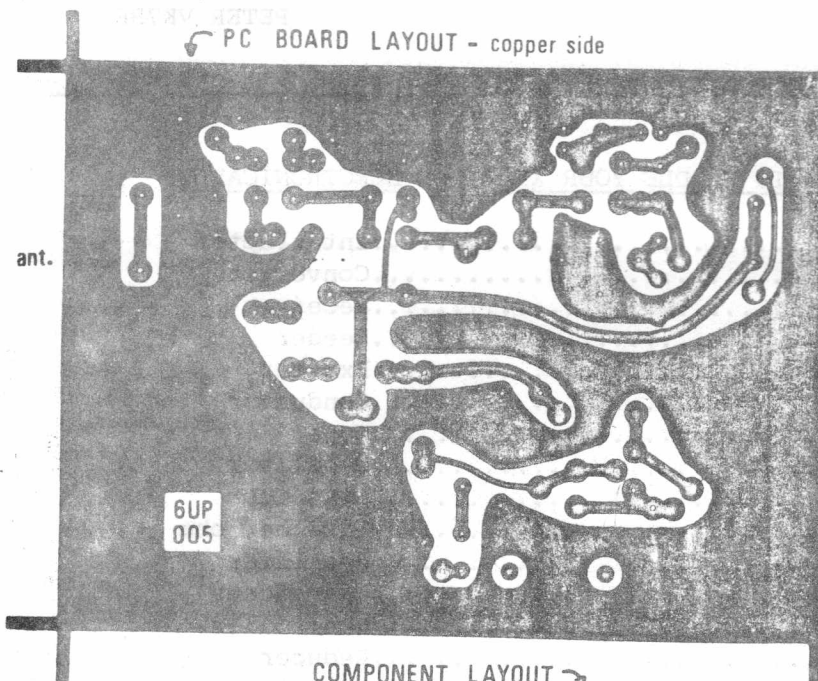
Roger Hord VK2ZRH
Roger Harrison VK2ZTB

About 100mW (or less!) will effectively drive this PA. An MPF121 amplifier is excellent! Follow the general tune-up procedure outlined in the article mentioned above, remembering that there is no 10W intermediate stage.

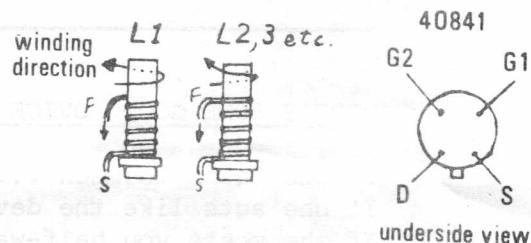
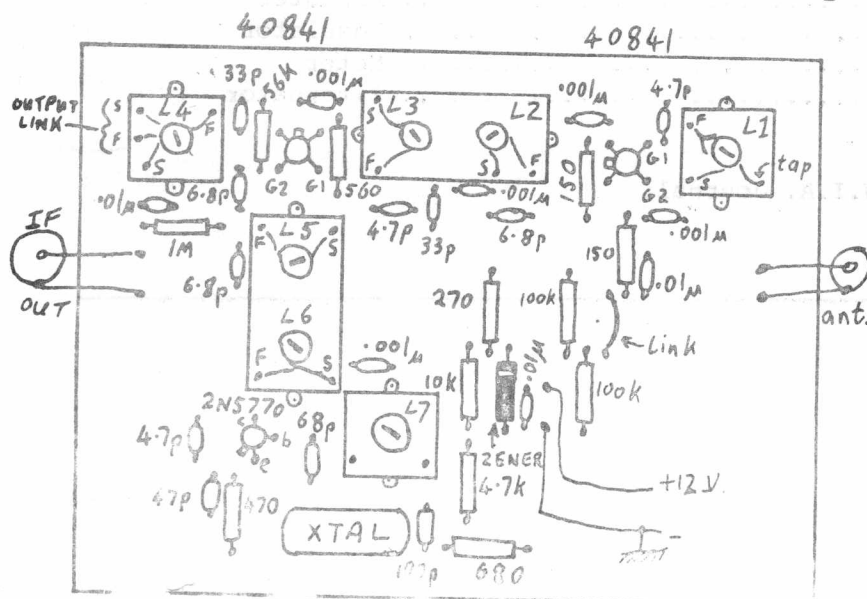


L1, L2	9 turns, 20 SWG enamel on Neosid 722/1 former, F29 slug.	RFC1, RFC4	1½ turns 20 SWG enamel through ferrite bead Philips 4312/020/31550
L3	7 turns, 20 SWG enamel on Neosid 722/1 former, F29 slug.	RFC2, RFC5	11 turns, 20 SWG on 470 ohm, ½W carbon resistor.
L4	6 turns, 16SWG tinned copper wire 5/16" dia. spread over ½".	RFC3, RFC6	Single tinned copper wire through Neosid F29 slug.

Fig.1. CIRCUIT
2m CONVERTER



COMPONENT LAYOUT



COIL DATA

All coils, with the exception of L1 are wound CLOCKWISE UP the former. L1 is wound ANTICLOCKWISE up the former. The start of the coil is the earthy or 'cold' end.

- L1 - 5t, 22 B&S t.o.w., tap at 2t,
spaced over 3/8". Single Neost

- L2 - 5¹/₂" x 22 B&S enamel, spaced over
L3 - 3³/₈". Double Neosid.

- L4 - Closewound with 28 B&S enamel.
IF CAPACITOR

28MHz	- 12 turns	33pF
14MHz	- 22 turns	68pF
10.7MHz	- 25 turns	100pF
9MHz	- " "	"

Single Neosid.

- L5 - 5^{1st}, 22 B&S enamel, closewound
L6 Double Neosid.

- L7 - 10t, 28 B&S enamel, closewound
for crystals in the range 30.6
to 46MHz. 7t for 65MHz crystal
NOTE: All slugs 4 x 5 x 10/F29.

R.D. CONTEST NOTES

I wonder if you like me looked agast at the results of 1980 contest published in A.R. We had the highest participation, a higher average score than VK5 (the winner) - how come.

I went over the rules and past rules and can say that the only way VK5 won was due to the trophy calculation that gives a result proportional to number of logs submitted. VK5 has about three times our population so can muster more logs. Divide their total score by three and re-calculate score - 8800 points against our 18,000 points.

A letter is being written to AR especially protesting to headings "Divisional participation wins R.D. Contest", support from VK5/8 Amateurs were excellent. You will note that a new Contest Manager will be required after June. Maybe if VK7 got it we could get the rules right - even be able to use repeaters.

73
PETER VK7PF

HERE'S SOME GOOD ADVICE ON HOW TO HANDLE YOUR XYL - ELECTRONICALLY

If she talks too much	Interrupter
If she acts like the devil	Converter
If she meets you half-way	Receiver
If she's hungry	Feeder
If she's bored	Exciter
If she's new in town	Conductor
If she sings offkey	Tuner
If she gossips	Regulator
If she wants to get married	Resistor
If she is tired	Take her ohm
If she is wrong	Rectifier
If she's up in the air	Transformer
If she gets too excitable	Controiler
If she gets too fat	Reducer
If she drinks too much	Arrester
If she is cold	Insulator
If she wants a date	Meter
If you have two girls	Alternator

The above is from the S.A/W.I.A. Journal.

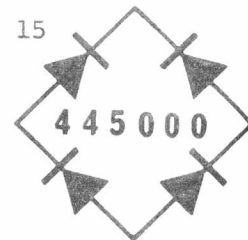


QRM

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J. D. ELECTRONICS

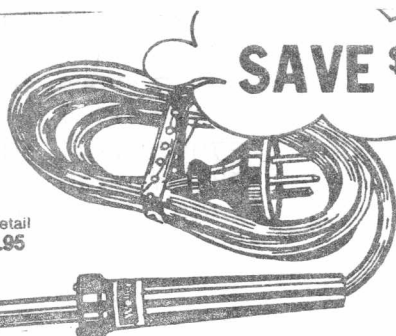
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Suppliers of Yaesu Amateur equipment, Test Gear and all Accessories. Antennae and Fittings. Novices check us now for a really good deal.



*HS ELECTRONICS,
104 CHARLES STREET,
LAUNCESTON. 31-8942*

**Soldering
Iron****9⁹⁵**Regular Retail
Price 18.95**SAVE \$9**

240 volt, 25 watt soldering iron screw-in tip. Ideal for handyman or hobbyist. 64-9500 Sale ... 9.95
64-9501. Spare tips: cone shape 1.99 Pr
64-9502. Spare tips: chisel shape 1.99 Pr

**Cordless,
Rechargeable
Soldering Iron****26⁹⁵**Regular Retail
Price 32.95**SAVE \$6**

•Solders up to 100 connections per charge

**"Pro"
Soldering
Iron****SAVE \$5****Replacement Tip
for Archer and
Weller Gun**

For Use With	Cat. No.	Pkg. of 2
Archer 64-9506 Weller 8100D	64-237	2.99

Regular Retail
Price 29.95**24⁹⁵**

Pull trigger and get 100 watts quickly. Spot-light for accuracy even in hard to get areas. Copper tip spreads solder evenly. Lightweight, comfortable to hold. 64-9506

No more cord tangle — and you can take it with you for easy soldering anywhere. Heats up in only 5 to 10 seconds and the high-efficiency copper tip spreads solder evenly. Easy-grip handle, pushbutton on/off, built-in worklight. Plugs into 240 VAC for recharging overnight. 64-9505 Sale 26.95
Replacement Tip. 64-2076 3.29

OSCAR 7 AND 8 PREDICTIONS

		A08				A07			
UTC		ORBIT	TIME	DEG.	MODE	ORBIT	TIME	DEG.	
DATE		NR.	Z	WEST		NR.	Z	WEST	
MON.	1 DEC.	13969	0018	60.5	A	27653	0020	79.7	
TUE.	2 DEC.	13983	0023	61.7	A+J	27666	0114	93.3	
WED.	3 DEC.	13997	0028	62.9	X	27678	0014	78.1	
THU.	4 DEC.	14011	0032	64.2	A	27691	0108	91.7	
FRI.	5 DEC.	14025	0037	65.4	A+J	27703	0007	76.5	
SAT.	6 DEC.	14039	0042	66.6	J	27716	0101	90.1	
SUN.	7 DEC.	14053	0047	67.8	J	27728	0001	75.0	
MON.	8 DEC.	14067	0052	69.1	A	27741	0055	88.6	
TUE.	9 DEC.	14081	0056	70.3	A+J	27754	0149	102.2	
WED.	10 DEC.	14095	0101	71.5	X	27766	0048	87.0	
THU.	11 DEC.	14109	0106	72.7	A	27779	0143	100.6	
FRI.	12 DEC.	14123	0111	74.0	A+J	27791	0042	85.4	
SAT.	13 DEC.	14137	0116	75.2	J	27804	0136	99.0	
SUN.	14 DEC.	14151	0121	76.4	J	27816	0036	83.9	
MON.	15 DEC.	14165	0125	77.6	A	27829	0130	97.5	
TUE.	16 DEC.	14179	0130	78.9	A+J	27841	0029	82.3	
WED.	17 DEC.	14193	0135	80.1	X	27854	0123	95.9	
THU.	18 DEC.	14207	0140	81.3	A	27866	0023	80.7	
FRI.	19 DEC.	14220	0001	56.7	A+J	27879	0117	94.3	
SAT.	20 DEC.	14234	0006	57.9	J	27891	0016	79.2	
SUN.	21 DEC.	14248	0011	59.2	J	27904	0111	92.3	
MON.	22 DEC.	14262	0016	60.4	A	27916	0010	77.6	
TUE.	23 DEC.	14276	0021	61.6	A+J	27929	0104	91.2	
AED.	24 DEC.	14290	0025	62.8	X	27941	0003	76.0	
THU.	25 DEC.	14304	0030	64.0	A	27954	0058	89.6	
FRI.	26 DEC.	14318	0035	65.3	A+J	27967	0152	103.2	
SAT.	27 DEC.	14332	0040	66.5	J	27979	0051	88.1	
SUN.	28 DEC.	14346	0045	67.7	J	27992	0145	101.5	
MON.	29 DEC.	14360	0049	68.9	A	28004	0045	86.5	
TUE.	30 DEC.	14374	0054	70.2	A+J	28017	0139	100.1	
WED.	31 DEC.	14388	0059	71.4	X	28029	0038	84.	

THE ABOVE IS BASED ON THE FOLLOWING DATA

A07 PERIOD $114.94732 - 1.806 \times 10^{-7}$ X ORBIT NUMBER

A07 ORBIT INCREMENT OF 28.7373 DEGREES

A08 PERIOD $103.22483 - 1.711 \times 10^{-7}$ X ORBIT NUMBER

A08 ORBIT INCREMENT OF $25.809827 - 5.8 \times 10^{-7}$ X ORBIT NUMBER

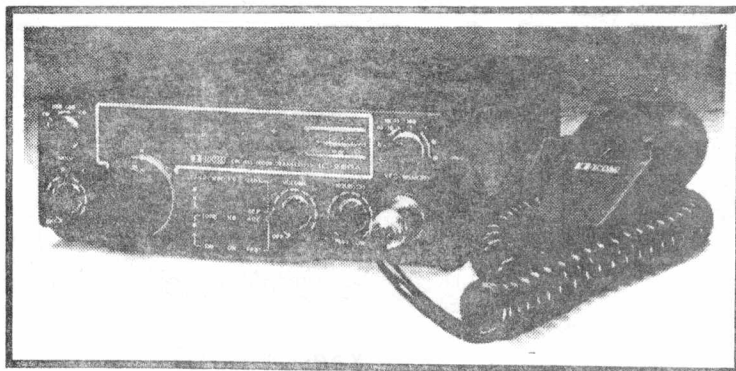
A07 CAN BE ON EITHER MODE A OR B

VK7PF

HANDY 2M FM/SSB MOBILE!



IC260A



FEATURES

* 2m ALL-MODE TRANSCEIVER INCORPORATING A MICROCOMPUTER

CPU control with ICOM's original programs provides various operating capabilities. No back-lash dial controlled by ICOM's unique photo-copper circuit. Band-edge detector and Endless System provides out-of-band protection. No variable capacitors or dial gear, giving problem-free use. The IC-260A/E provides FM, USB, LSB, CW coverage in the 143.8 — 148.2MHz frequency range. Thus the IC-260A can be used for mobile, DX, local calls, and satellite work.

* MULTI-PURPOSE SCANNING

Memory Scan allows you to monitor three different memory channels. Program Scan provides scanning between two programmed frequencies. Adjustable scanning speed. Auto-stop stops scanning when a signal is received, in all modes.

* DUAL VFO'S

Two separate VFO's can be used either independently or together for simplex operation, and any desired frequency split in duplex operation.

* CONTINUOUS TUNING SYSTEM

ICOM's new continuous tuning system features an LED that follows the tuning knob movement and provides an extremely accurate readout. Frequencies are displayed in 7 LED digits representing 100Hz digits.

Automatic recycling restarts tuning at the top of the band, i.e., 145.999.9MHz when the dial goes below 144.000.0MHz. Recycling changes 148.199MHz to 143.800.0MHz as well. Quick tuning is 1KHz steps is available, and fine tuning in 100Hz steps in the SSB and CW modes, and 5KHz steps and 1KHz steps in the FM mode, is provided for trouble free QSO.

* OUTSTANDING PERFORMANCE

The RF amplifier and first mixer circuits using MOS FETs, and other circuits provide excellent Cross Modulation and Two-Signal Selectivity characteristics. The IC-260A has excellent sensitivity demanded especially for mobile operation, high stability, and with Crystal Filters having high shape factors, exceptional selectivity.

The transmitter uses a balanced mixer in a single conversion system, a band-pass filter and a high-performance low-pass filter. This system provides distortion-free signals with a minimum spurious radiation level.

* ADDITIONAL CIRCUITS

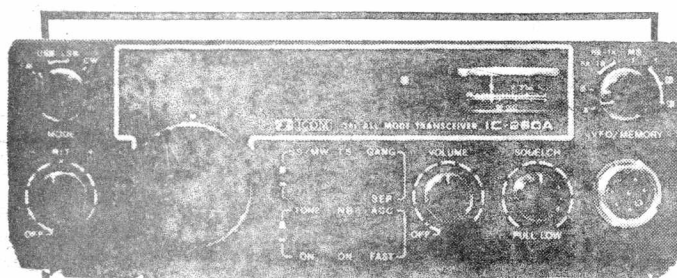
The IC-260A has a built-in Noise Blanker, CW Break-in, CW Monitor, APC, and many other circuits for your convenience. The IC-260A has everything you need to really enjoy VHF operation, in an extremely compact, rugged transceiver. Comes complete with mic, mobile mounting bracket and English manual.

* BACKED BY VICOM

90 day warranty and technical/spares support.

Typical Technical Characteristics (Australian model)

GENERAL. Number of semi-conductors: Transistor 72, FET 9, IC 44, Diode 90. Frequency coverage: 143.8000 — 148.1999MHz. Frequency resolution: SSB 100Hz steps FM 5KHz steps. 1KHz steps with TS button depressed. Frequency Control: Microcomputer based 100Hz step Digital PLL synthesiser. Independent Transmit-Receive Frequency Capability. Frequency Readout: 7 digit LED 100Hz readout. Frequency stability: Within ± 1.5 KHz. Memory channels: 3 channels, any inband frequency programmable. Usable conditions: Temperature: $-10^{\circ}\text{C} - 60^{\circ}\text{C}$ ($14^{\circ}\text{F} - 140^{\circ}\text{F}$) Operationable time: Continuous. Antenna impedance: 50 ohms unbalanced. Power supply supplement: 13.8V DC $\pm 15\%$ (negative ground) 3.5A Max. Current drain (at 13.8V DC): Transmitting: SSB (PEP 10W) Approx 2.2A. CW, FM (10W) Approx. 3.1A. FM (1W) Approx. 1.6A. Receiving: At max audio output Approx. 0.8A. Squelched Approx. 0.6A. Dimensions: 64mm (H) x 185mm (W) x 223mm (D). Weight: Approx. 2.7Kgs. Warranty: 90 days when purchased from authorised dealers. **TRANSMITTER.** Output power: SSB High 10W (PEP) Low 1W (PEP). CW High 10W Low 1W. FM High 10W Low 1W. Emission mode: SSB (A3J, USB/LSB), CW (A1), FM (F3). Modulation system: SSB Balanced modulation. FM Variable reactance frequency modulation. Max frequency deviation: ± 5 KHz. Spurious re-emission: More than 60dB below peak power output. Carrier suppression: More than 40dB below peak power output. Unwanted Sideband: More than 40dB down at 1000Hz AF input. Microphone: 1.3K ohm dynamic microphone with built-in preamplifier and push-to-talk switch. Operating mode: Simplex. Duplex. (Any inband frequency separation programmable) **RECEIVER.** Receiving system: SSB, CW Single conversion superheterodyne. FM Double conversion superheterodyne. Receiving Mode: SSB (A3J, USB/LSB), CW (A1), FM (F3). Immediate Frequency: SSB, CW 10.75 MHz. FM 10.75MHz. 455KHz. Sensitivity: SSB, CW Less than 0.5 microvolts for 10dB S+N+D/N+D at 1 microvolt. Less than 0.6 microvolts for 20dB Noise quieting. Squelch sensitivity: Less than 0.4 microvolts. Spurious response rejection ratio: More than 60dB. Selectivity: SSB, CW More than ± 1.2 KHz at -6 dB point. Less than ± 2.4 KHz at -60 dB point. FM More than ± 7.5 KHz at -6 dB point. Audio output power: More than 2W. Audio output impedance: 8 ohms.



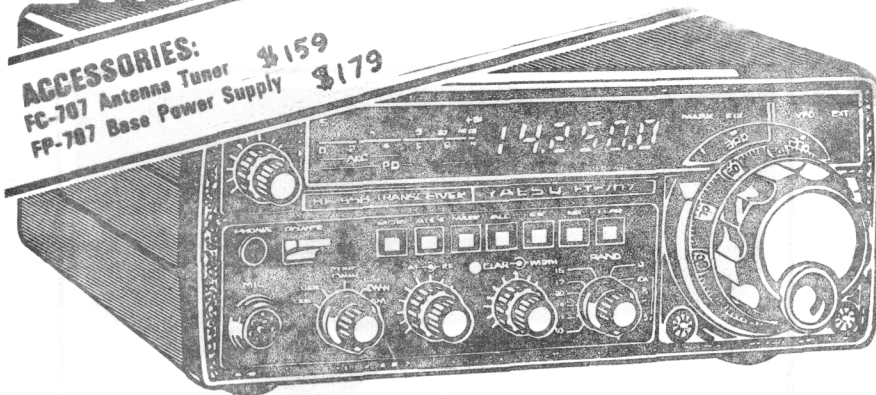
THE ATTRACTIVE FRONT PANEL

Check it out at your VICOM dealer.

VICOM

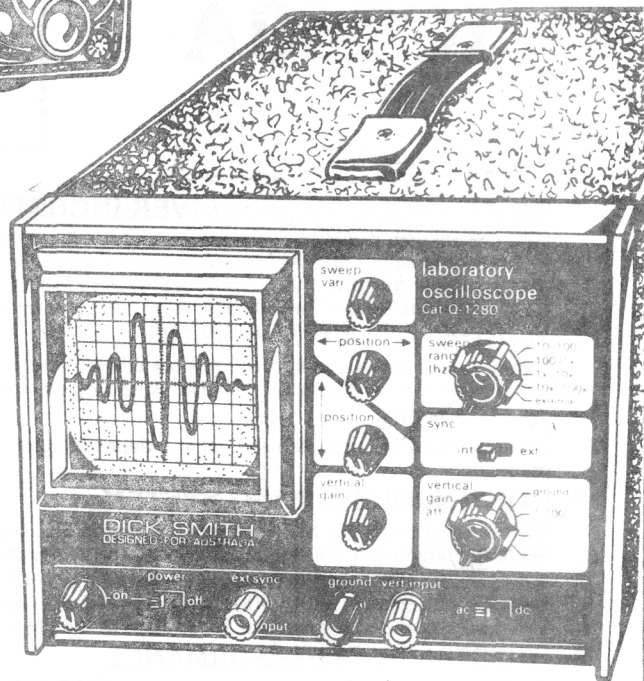
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TAS. 7250
PHONE: 003 - 44 3882

ACCESSORIES:
 FC-707 Antenna Tuner \$159
 FP-707 Base Power Supply \$179



Yaesu FT-707

DICK SMITH
OSCILLOSCOPE - 6.5MHZ
Q-1280 \$199



VK ELECTRONICS
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