

THE PROPAGATOR

NO. 8/77

AUGUST 1977

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THE MONTHLY NEWSLETTER OF THE
ILLAWARRA AMATEUR RADIO SOCIETY

A Member Club of the Wireless Institute of Australia.
Published by the Illawarra Amateur Radio Society
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NOTICE OF MONTHLY MEETING - AUGUST 1977

Members are advised that the monthly meeting of the Illawarra Amateur Radio Society will be held at the Wollongong Town Hall Meeting Room on Monday, 8 August 1977 at 7.30 pm.

AGENDA

- 1 Apologies and welcome to visitors.
- 2 Minutes of previous General Meeting.
- 3 Correspondence.
- 4 Financial Report.
- 5 General Business.
- 6 Lecture.

LECTURE

This month Keith ^{6d}2BCU will demonstrate another of his construction projects - an S.W.R. Bridge. Details of this unit are included in this issue and parts may be obtained from the store.

73's
Geoff

Moonbounce Report - August 1977.

The VK2AMW EME tests for July were made on 28/7. with WA2VWL, YV5ZZ, W5FF and XE1RY.

We were hearing our echoes at 6 to 7dB over noise, but none of the scheduled stations appeared to be on.

K3NSS was heard on 432.015MHz and later on 432.010MHz with signal strength of up to 15dB over noise. This big signal comes from an 84ft. diameter dish at the US Naval Communications Station in Washington DC. according to their QSL card which was received recently for our contact with them on 28/5/77.

The hardware has now been made up for the new feed system for the dish. It is being initially set up at the QTH of VK2ALU to determine its effect on the resonant frequency of a 432MHz dipole and reflector, as a guide to the modifications needed to the crossed dipoles at present used as the dish feed.

Repair work is continuing on the dish surface and the high tensile bolts will be installed in place of bolts which have failed as main shaft bearing holding down bolts. All this work should be completed over the next two weeks if the recent strong winds abate for a few days. The new feed system will then be installed.

The next scheduled monthly tests are to be put back one week according to K2UYH. This will give VK2AMW a more favourable window with the European stations.

Lyle VK2ALU.

THE WIRELESS INSTITUTE OF AUSTRALIA

- INFORMATION
- EDUCATION
- FREE MONTHLY MAGAZINE "AMATEUR RADIO"
- VALUABLE MONEY-SAVING SERVICES:
 - Components, disposals, surplus gear — Magazines and books
 - QSL Bureaux — Sales and exchange facilities
- Modest membership target is 8000 for WARC 79.
- REPRESENTATION
- ADVICE
- SOCIAL ACTIVITIES
- CONTESTS
- AWARDS

GET WITH IT — GET FACTS NOW

STOLEN

Jim Potts VKZBBG has had his MULTI-7 and wip aerial stolen from his car while parked in his drive. It is fitted with 6 Repeater channels and 3 Semplex channels. It also has a 2N5590 in the PA instead of the normal device. The serial number of the unit is at this time not known. If you have any information on this set please contact Jim direct.

Make sure all your equipment is identifiable and as secure as possible.

BAR-B-Q

It is proposed to hold a BAR-B-Q on the first Saturday in November. Keep this date free for this event and watch for further details as the meeting and in the Propogator.

RAFFLE

The I.A.R.S. will be conducting a raffle for a Cathode Ray Oscilloscope. Tickets will be \$1 and the raffle is to enable us to make a contribution to the WARC79 fund. It is proposed to conduct the draw for this unit at the December meeting.

DISPOSAL SALE

HI-TECK ELECTRONICS are conducting a disposal sale at the present time with lots of goodies at bargain prices so get out to Corrimal and see what you can get.

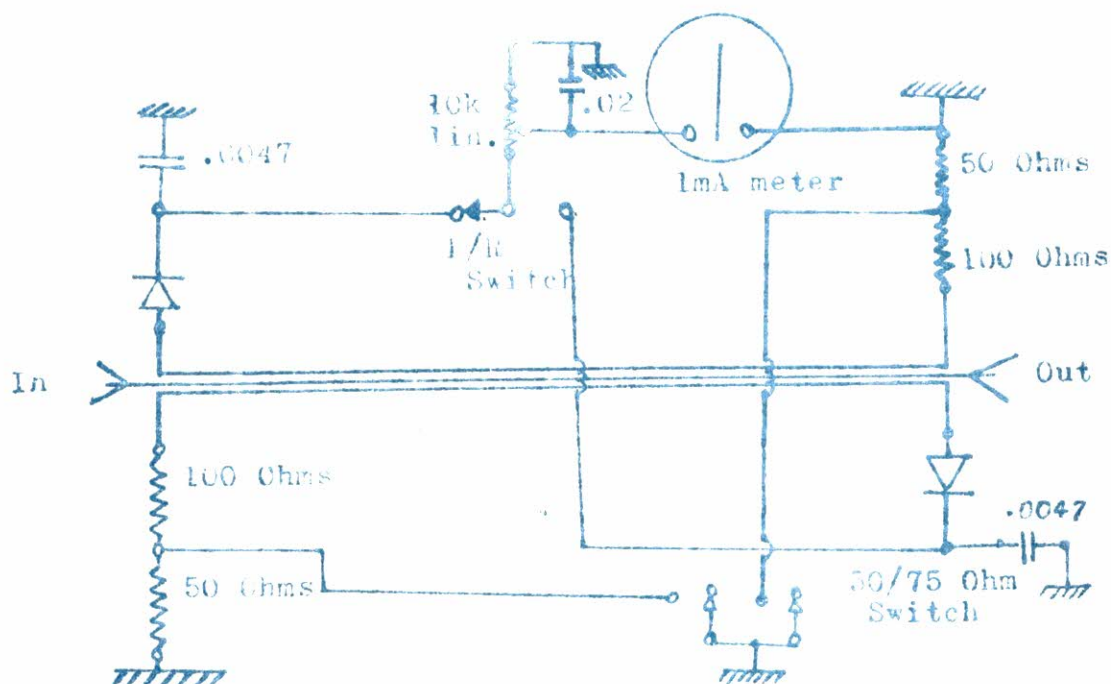
WANTED URGENTLY

Information from other groups etc for inclusion in the PROPOGATOR, similar to above. (Now about something from the southern repeater). We would also welcome articles on any interesting subject or some small device you have built and think other people may be interested in.

SIMPLE CIRCUITS CORNER.

Because of the number of new calls in the club and the need for every station to have an SWR bridge, this month we have published the circuit of a simple unit requiring few parts and an inexpensive meter.

Rather than go into great detail on the construction of the unit and the PCB design I will have a sample unit at the next meeting.

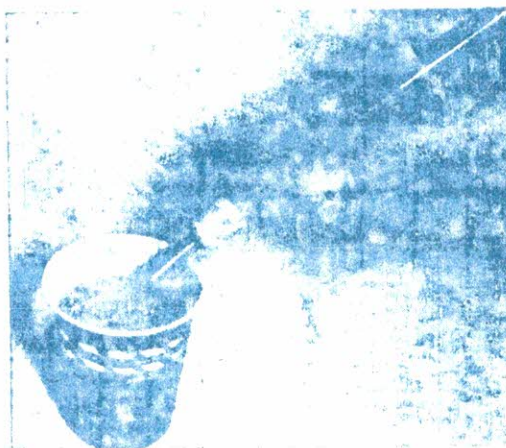


Keith VK2OB

Ham Hints

Quick Dip Cleans Iron Tip

Actually, there is no need for you to get out a wire brush or a file every time you are in the midst of a soldering job to clean off that black crust that forms on your iron's tip. Just keep a small container of water on the bench and plunge the hot tip into it occasionally. The rapid cooling effect will shrink the coating of crust and it will flake off easily with just the wipe of a clean cloth.



HIGH RANGE 2 METRE BEACON

This experimental beacon is situated on High Range, 15 km north west of Mittagong, 2700 feet above sea level, with omnidirectional get-away. Transmitter is on 144.12 MHz, 10 watts to 5 el. collinear vertical antenna, now ident. VK2RHR

Reports of reception would be welcomed by the Beacon Officer, Barry VK2ZAG at P.O. Box 318, Mittagong, 2575, or at I.A.R.S. meetings.

It is proposed to develop the site for a repeater if it proves satisfactory. A shack with 240V A.C. power has already been constructed.

MACELEC
99 KENNY STREET, WOLLONGONG.
PHONE 29 1455



TS 820S 160 thru 10 metres. FSK - SSB - CW complete with true
Digital Frequency Readout.
Variable I.F. Bandwidth - Full Speech Processing - Speech Monitor etc.
.....\$998.00 ea

THE NEW KENWOOD TS520S - Now has 160 metres thru 10 metres and
Provision for Optional Digital Display. This unit has all the
features of the Previous 520 except DC-DC Converter which is an
option. Price.....T..B..A.

TR 7400 A 2 metre F.M. Transceiver. Utilizing a Unique Squelch
System - Digital Readout. - Fully Synthesized with 5KHZ steps
from 144 Thru 148 MHZ.
.....\$390.00 ea

R 300 Kenwood Receiver all Bands from 170 KHZ to 30 MHZ -
Selectivity selectable 2..5KHZ or 5 KHZ.

Sensitivity Better than 0.3 microvolt. Inbuilt 500 KHZ
marker A.C. or D.C.. External or Internal Batteries.

.....\$260.00 ea

HC2 Kenwood Hamclock. A must for every Amateur Operator or
S.W.L.

Limited Stocks at.....\$29.50 ea



We also stock a range of Oscilloscopes, Signal Generators, Audio
Generators, TVI Filters, ETC., As well as a limited stock of
Selective 27 MHZ equipment

MACELEC
99 KENNY STREET, WOLLONGONG.
PHONE 29 1455
or Contact Barry Hartley VK2FE.

Sideband Electronics Sales

HF TRANSCEIVERS

ASTRO - 200 digital solid state 200 W.P.E.P.	P.O.A.
TRIO KENWOOD model TS 520 - D AC - DC 10 to 80 M.	\$590
TRIO KENWOOD model 520 - D AC only 10 to 80 M.	\$650
TRIO KENWOOD model TS - 820 - S AC only 160 to 10 M. with digital readout	\$980
TRIO KENWOOD model TS - 820 AC only 160 to 10 M.	\$850
TRIO KENWOOD DS 1 DC Converter	\$ 65
VFO - 820	\$145
DG - 1 Digital Display	\$160
YG. 88C Crystal Filter	\$ 64
SP. 520 - 820	\$ 36

TRIO KENWOOD model TS - 700 - A FM-AM-CW-SSB transceivers. Full 144-148 MHz coverage, 10-Watt output, VFO controlled, self-contained, AC-DC operation. \$650

TRIO KENWOOD model TS-600-A FM-AM. SSB transceiver full 50-54 MHz coverage 10 Watt output variable form 1 Watt to full power. VFO controlled AC-DC operation. Styling as TS-700-A. P.O.A.

TRIO KENWOOD model TR-7400 2 meter FM transceiver 10 to 25 watts output. Frequency range 144.00 to 147.995 MHz No. of channels 800, Double conversion superheterodine sensitivity better than 0.4 UV for 20 DB. \$385

KYOKUTO 2 M FM 15 W output transceivers with digital read-out and crystal synthesized PLL circuitry now tiwh 800 transmit and 1000 receive channels 5 KHz apart, covers all of 144-148 MHz, receive to 149 MHz. No more crystals to buy. Includes simplex, repeater and anti-repeater operation. only \$310

NOVICE OPERATORS

All above HF transceivers will be modified for low cost to suit novice. Requirements 27 MHz conv. x-tals in stock now for kenwood models.

IT IS HERE AGAIN, the well known SE-501 in new style case 15 Watt pep 23 AM SSB for as low as \$215 Same model with AC built in supply and DC built in SWR power meter and many goodies. \$260

ICOM

VHF TRANSCEIVERS SSB

ICOM model IC-202 2 M SSB portable transceiver 144-144.4 MHz \$215

ICOM model IC-502 6 M SSB portable transceivers 52-53 MHz \$215

USED EQUIPMENT

Collins KWM-2 - A in new condition with power supply \$1,600
PM.2
6146 - b valves RCA new Large stock \$10 each.

FDK MULTY QUARTZ with 24 channels 10 sets of crystals supplied 10 Watts, new style. \$265

YAESU MUSEN model FT-101-E AC - DC transceivers 10 to 160 M with speech processor P.O.A.

YAESU MUSEN model FT - 301 P.O.A.

YAESU MUSEN model FT 301 - D P.O.A.

YAESU MUSEN model FT - 301 - S P.O.A.

YAESU MUSEN model FP - 301 P.O.A.

YAESU MUSEN FR 6-7. Uses Wadley loop principal \$300

YAESU MUSEN model YC-500 P.O.A.
FREQUENCY COUNTERS

HY - GAIN ANTENNAS

14AVO 10-40M. verticals, 19' tall, no guys	\$ 65
18AVT-WB 10-80 M. verticals, 23' tall no guys	\$ 95
TH3JR 10-15-20 junior 3 el. Yagi 12' boom	\$ 160
TH3MK3 10-15-20 senior 3 el. Yagi 14' boom	\$220
TH6DXX 10-15-20 senior 6 el. Yagi 24' boom	\$250
HY-QUAD 10-15-20 cubical quad Yagi 8' boom	\$250
TIGER ARRAY 2048A 20M4el. Yagi 26' boom	\$250
BN-86 balun for beam purchasers only	\$ 25

CUSH CRAFT ANTENNAS

A144-11 11 Element 2M-Yagi	\$ 45
A147-11 11 Element 2 M Yagi	\$ 45
A147-20 combination horizontal vertical 2 M	\$ 70
A144-20 combination Yagi with matching harness circular polarization	\$ 75

ANTENNA ROTATORS

Model CDR Ham-11 for all hf beams except 40 M	\$200
Model CDR AR-22 L junior rotator for small beams	\$ 65
KEN model KR-400 for all medium size hf beams with internal disc brake	\$110
KEN model KR-500 for vertical control of satellite tracking	\$110
All models rotators come complete with 230-volt AC indicator-control units.	
6-conductor cable for KR-400-500	65 cents per metre

COAX CABLE CONNECTORS

PL-259	\$1.20
SO-239 Chassi Mount	\$1.20
Male to male joiner	\$1.20
Female to female joiner	\$1.20
Angle connector	\$1.70
T-connector	\$2.00

COAX CABLE

RG - 8 - U foam filled	per metre	\$1.20
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SWR METER

Twin meter model: Y.M. - I.E. 3.5 to 145 MHz prof quality \$ 28

DRAKE TV - 3300 TVI lowpass filter \$ 31
SSR-1 Receivers \$270

All prices quoted are net SYDNEY, N.S.W., on cash-with-order basis, sales tax included in all cases, but subject to changes without prior notice. ALL-RISK INSURANCE from now on free with all orders over \$100; small orders add 50c for insurance. Allow for freight, postage or carriage; excess remitted will be refunded.

Sideband Electronics Sales

For personal attention: 24 KURRI STREET, LOFTUS
P.O. BOX 184, SUTHERLAND, 2232

OPEN ON SATURDAYS TILL 12 NOON
TELEPHONE: 521 7573

PETER SCHULZ, VK2ZXL

COMPONENTS FOR SALE

SCOTCHCAL

Photosensitive panel material for making professional looking front panels to pretty up your gear. See article in November issue.

Sheet size 10" x 12" \$3.50

BOOKS

Basic Electronics A very useful book, especially for beginners. Published by Electronics Australia. \$3.00

Projects and Circuits Over thirty Electronics Australia projects combined into a book of 112 pages. \$1.50

Westlakes Novice Licence Manual This excellent book is being revised. At the time of writing, we have run out of copies for sale, but we might have supplies of the revised Manual by this meeting.

GENERAL

Pair meter leads with alligator clips	50c
Vernier dials 35 mm. 4 turns knob for $\frac{1}{2}$ turn dial	\$1.50
DPDT slide switches	25c
Four pin plug and socket - pair	15c
Alligator clips - large, insulated. Red or Black	20c
Ground Plane Antenna Base	\$1.00
Edge connectors	\$1.00
Tag strips	10c

CONDENSERS

Ceramic trimmer, mica insulation	30c
Small solder type feed through capacitors	5c
Wire wrap type trimmers	10c
Ceramic bolt-down trimmers	10c
25V Electrolytics, double ended	
4.7 μ F	6c
100 μ F	12c
220 μ F	15c
470 μ F	20c
Greencaps 100V	
.0047, .002	8c

NEOSID

Formers	8c
Balun formers - small	12c
- large	15c
Cans - single	10c
- double	12c
Slugs - F 16,	7c

METERS

S Meter 400 μ A $1\frac{1}{2}$ " x $\frac{5}{8}$ "	\$2.50
Level Meter dual 200 μ A meters, illuminated	\$3.00
0 - 1 mA Meter 50mm square	\$4.00
0 - 1 mA Meter 75mm x 50mm.	\$5.00

RESISTORS

Bag of 160 $\frac{1}{2}$ watt resistors.
10 each of values 10, 47, 68, 100, 220, 470, 680, \$4.00
1K, 2.2K, 4.7K, 6.8K, 10K, 22K, 47K, 68K, and 100K.

ANTENNA WIRE

Bronze alloy wire, single strand, 1.2mm diameter. See sample at meeting.
Lengths cut to order 5c/metre

The I.A.R.S. Store is stocked with selected purchases of good quality components. A small profit is marked up on these items yet prices are very reasonable. The profit goes towards expanding the range of items kept in stock.

Bring your money on meeting nights and keep stocked up with those often needed components.

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Newsletter of the Illawarra
Amateur Radio Society



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