

QRM

Amateur
Radio
News



APRIL 1986

Issued by the Tasmanian Division of
the Wireless Institute of Australia

TASMANIAN DIVISION

PRESIDENT'S REPORT 1986

Ladies and Gentlemen,

It is with pleasure that I present to you the annual report of the Wireless Institute of Australia, Tasmanian Division, for 1985.

Divisional Council this year had two Councillors each from the South and North and four from the North-West. Meetings were held in members' homes in Launceston initially followed by a move to the facilities at the Australian Maritime College. Attendances during the year were satisfactory with Branch President's being in attendance at some meetings. Although the frequency of meetings is still a continuing problem and requires attention.

The past year again has seen Council adopting the the role of co-ordinator between branches with the main activities being controlled from within the Branches.

June 11th and 12th saw the 75th Anniversary of the Wireless Institute of Australia, Tasmanian Amateur Radio Convention held in Hobart, conducted by the Southern Branch on behalf of the Tasmanian Division. This event saw the re-enactment of the Historical Spark Transmission Experiments by 'Pop' Medhurst of 1901 at Blinking Billy Point on June 11th 1985. The Convention saw 200 plus of the Tasmanian Amateur population visit the Convention site at the Montrose Bay Yatch Club, with over 1000 visitors passing through the Convention. This event is one that all Amateurs can be proud of in the celebration of the 75th Anniversary of the Wireless Institute of Australia, the Oldest Amateur Radio Society in the World.

QRM under the editorship of John Rogers continues in publication but still requires the support of all the Branches for articles and items of news, distribution presently still via Branch meetings. Sunday morning broadcasts have been brought to you each week by a few dedicated amateurs, who originate and relay onto frequencies for all classes of licencees to listen statewide, however not without some difficulties during the year. This resulted in a Broadcast Co-ordination Meeting being held in Launceston on 15th February 1986 with excellent attendance from all Branches. The meeting was highly successful and the results are contained in a separate report.

WICEN was again active during the year participating in Tasmania Police and State Emergency Services exercise conducted in 1985. This being highly successful in demonstrating the capabilities and usefulness of the Amateur Radio Service.

The Tasmanian Devil Award has continued in popularity and is well sought after. The QSL Bureau continues at a similar rate to last year in the number of cards being handled, indicating present band conditions.

Divisional finances during the year have shown a decrease, brought about by increased expenditure during the year, this being detailed in the Treasurers report. This resulted in an increase of one dollar to all subscription rates. Membership during the year has also increased.

Finally, to all elected and ex-officio members of Council, I thank you for your support and co-operation during the past year.



Peter C. King VK7ZPK

BRANCH NOTICES.

NORTHERN BRANCH meets at 8 p.m. on the SECOND FRIDAY of each month (except January) in ROOM G25, Swanson Building, Australian Maritime College, Newnham, Launceston. (Address: P.O.Box 275, Launceston, 7250.)

NORTHWESTERN BRANCH meets at 8 p.m. on the SECOND TUESDAY of each month at the Penguin High School.
(Address: P.O.Box 194, Penguin, 7316)

SOUTHERN BRANCH meets at 8.15 p.m. on the SECOND WEDNESDAY of each month, at the Elizabeth Matriculation College, corner of Warwick and Elizabeth Streets, Hobart.
(Address: P.O.Box 123, Sandy Bay, 7005.)

LETTERS TO THE EDITOR.

Received from Jim Joyce, VK3YJ, correspondent to "73" mag, - thanks for your complimentary remarks, Jim, and we hope that super mike (your special award from "73") is giving you great satisfaction.

Also a letter from Tony Clayton, N.W. Branch Secretary, - your congratulations are much appreciated by the hard-working staff here. The delivery service to Sulphur Creek should be working now, but of course, if the "A.R." insert system is succesful, Max won't have to go "down to the depot" any more!

William Perleberg has also sent us a most picturesque letter enclosing broadcast schedules for Spanish over-seas services and NHK, Radio Japan. The Australian sections are given below.

RADIO JAPAN TIME AND FREQUENCY SCHEDULE													
March 2, 1986(0100 UTC).....April 6, 1986													
NHK 国際放送「ラジオ日本」実施表													
REGIONAL SERVICE (地域向け放送)													
TRANSMISSION	UTC	5	6	7	8	9	10	11	12	13	14		
	JST	14	15	16	17	18	19	20	21	22	23		
Australian & New Zealand Service ● (豪州・ニュージーランド向け)						E Daily			11875 kHz(25mb)				
						45		45					

SERVICIO EN LENGUAS INGLES.

TARGET AREA	FREQUENCY	BAND	BEAM	TIME UTC	DATE
NORTH AMERICA	(N) 6055kHz	49m	290°	0000-0200 0500-0600	Daily.
AUSTRALIA	(N) 9630kHz	31m	290°	0000-0200 0500-0600	Daily.

(N) Centro Emisor de Noblejas (Toledo) 6 x 350kW
(39°58'N, 3°27'W)

WOULD ALL ASPIRING CONTRIBUTORS TO "QRM" PLEASE NOTE THAT THE EDITOR'S CLOSING DATE FOR THE MAY EDITION COPY WILL BE

APRIL 21 st.

SJOERD GOES SOUTH.

VK7ZSJ, Sjoerd or "Sojo", left Hobart in early March for Macquarie Island where he will stay for the winter and will operate as VKØSJ. He will take his H.F. gear with the TONO for RTTY and 2m. gear for the Robot Satellite.

A keen group of VK3'rs have pooled in and given Sojo on loan for the year: a callsign keyer for the 2m. and 6m. beacon, a 6m. transceiver, a 6m. and a 2m. linear, 6m. and 2m. Yagi's and power supplies. So, says Sojo, keep an ear out on the 6m. and 2m. bands for the beacon. The exact frequencies will be notified when the equipment is installed and minimum interference with scientific equipment is determined.

If you are interested, keep also an ear out on his regular H.F. skeds with VK7HK, VK7VK or VK7RM around 09.00Z on 14.120 MHz.

TASMANIAN DIVISIONAL COUNCILLORS FOR 1986/7.

At the Annual General Meeting, and the Council Meeting following it on Saturday, 15th. March 1986, elected to the Divisional Council were:

President: Peter Frith, VK7PF.
Secretary: Barry Riseley, VK7RS.
Treasurer: Frank Beech, VK7BC.
Asst. Sec: Robin Harwood, VK7RH. (Also Minuting Sec.)
Federal Council: Joe Gelston, VK7JG.
Council Members: Byron Dilworth, VK7BD.
Arthur Tregaskis, VK7SE.
Russ Pitman, VK7ZRP.

We wish them all the best for a successful year in office.

PLEASE NOTE!!!

Robin Harwood's Intruder Watch Report has been held over until next month.

Also don't miss next month's article on the construction of Z22 JD TRI-BAND YAGI BEAM antenna.

DIVISIONAL BROADCASTS

This is VK7 GH calling. As you may now be aware, I've taken on the task of Divisional Broadcast Officer for 1986. I'm looking forward to the challenge and hoping to get the support of all members in putting to air the Divisional weekly broadcasts. To this end your support is required in the form of broadcast material, and operational support both in originating and relaying broadcasts. If you can assist in any capacity, please advise me or your local Branch broadcast officer immediately, these being:

North	VK7 AV	Bill
North West	VK7 ZFH	Frank
South	VK7 GH	Arthur

News gathering is presently undertaken on a regional basis by the local broadcast officers, collated and forwarded to the duty originator by Friday for broadcasting on the Sunday. Stop press items are acceptable but if you have an item, get it in early and save the originator of the day the panic of a last minute re-organisation to his broadcast schedule.

Enough of the boring logistics, what can the broadcast officer do to help the smooth running of the broadcast. A few early thoughts are:

- (1) Early issue of rosters of originators and relays
- (2) Oversee quality of technical production of the broadcast and ensure adequate facilities are available to achieve this.
- (3) Encourage positive and negative feedback on the broadcast.
- (4) Promote the Divisional image.

BUT WHAT CAN'T HE DO??

- (1) Read your minds.
- (2) Generate the news.

So here's looking forward to your information and support 73's for the time being and good listening.

Arthur VK7 GH

Address - 34 Ashbolt Cres, Lutana, 7009 Tel (002) 284963 H
(002) 305600 B

BROADCAST RO STER MARCH/APRIL 1986

23 March	- Northern Branch
30 March	- Northern Branch or VK7 GH
6,13,20,27 April	- North Western Branch

A W A R D S by Bob VK7NAI.

Two new short-term awards come to us from the Land of the Long White Cloud.

NZART CONFERENCE AWARD.

This year's NZART Conference Award will be available for contacts made with stations in the Conference area.

The award is called The 1986 Energy Centre Conference Award and its duration is from 20.4.86 to 20.5.86.

To qualify for the BASIC Award, you must work the COMPULSORY station, ZL2BDN, branch station, New Plymouth Branch and ten (10) members from the following branches:

Branch 14 Hawera.	Branch 32 Rahotu Central.
Branch 19 Inglewood.	Branch 47 Waitara.
Branch 27 New Plymouth.	Branch 54 Patea.

To earn the MERIT Award, you must make contact with two (2) NZART Councillors in addition to the above eleven (11) stations.

The cost of the Award is \$NZ2 and logs containing the usual details, certified by one other amateur, and showing your WIA membership number, must be posted before 25.5.86 to the Award Custodian, PO Box 651, Hawera, South Taranaki, NZ.

I am attempting to organise a special net for this award. Possible date at this stage is Saturday 3.5.86 at 1000Z or earlier on 3.590 $\pm$ QRM. Keep listening to the Weekly Broadcast for confirmation of date and time once the Award starts.

TARAWERA CENTENNIAL AWARD.

An award, sponsored by the ROTORUA BRANCH of NZART, has been instituted to commemorate the eruption of Mt. Tarawera 100 years ago.

The duration of the award is from 10.5.86 to 10.6.86 and to qualify for the award you are required to work five (5) Branch members (NZART Branch 33).

To earn the 1886 endorsement you must work ZL1AVG on Mt. Tarawera on Tuesday 10.6.86. (I will attempt to have this station come up on the Devil Net that night).

The usual details are required and logs (I am not sure if they need to be certified) must be posted to arrive before 17.7.86 with the Awards Manager, Rotorua A.R.C., PO Box 1984.

Two special prizes of free return flights to the top of Mt. Tarawera will be awarded to the first two recipients of the award carrying the 1886 Endorsement.

To assist you with the award, you might call on 3.686 or 7.086 Mhz. I have been assured that during the course of the award, Branch members will be active on the Novice section of 80 metres.

That's all for this month. Good chasing.

Bob, VK7NAI.

The Editor Regrets.....

It's not often we make mistakes in spelling names, but to make two errors in the same name is going a bit too far. We therefore apologise to the new Southern Branch Secretary, Kevan Davies - whose REAL name is KEVEN DAVIS! Now, when corresponding with him, we should all get it right!!.

ATV EXPERIMENTS IN HOBART.

Towards the end of March, some 625-line ATV signals were experimentally transmitted in the Fern Tree area of Hobart, by VK7ZAL and VK7ZAR. The actual spot was just opposite to where the Sphinx Hotel used to be. The tests were intended to ascertain whether the antenna - a 10-element Yagi - had a sufficiently broad lobe to cover a reasonable area.

By the time this paragraph is published, the results of those tests will have been evaluated and, if successful, will be followed by full tests on the 27th. April from 14.00 hrs. local time (EST). The main frequency of transmission on April 27th. will be 426.25MHz, though a second frequency may be made available on 444.25MHz. To receive the test signals, some owners of older TV receivers may find they can tune down to 426.25, but otherwise, an ATV converter will be necessary.

A 2m. handheld at the transmitter point will be used for reports on 146.45MHz.

"QRM" will print further information when experiment results come in.

W A N T E D . MOBILE MOUNTING BRACKET FOR AN ICOM 22S
V.H.F. RIG. Ron Mann VK7RM. QTHR. 002.232808.

QSL BUREAU - ANNUAL REPORT.

Totals of cards for the last three years:

	1983	1984	1985
Cards received	10,455	11,015	16,300
Cards sent	<u>7,096</u>	<u>7,672</u>	<u>11,696</u>
	<u>17,551</u>	<u>18,687</u>	<u>27,996</u>

The peak year was 1980, with a total of 49,062 cards. In and out cards are inflated this year by 7-800 by cards received from overseas bureaux for VK75A, the special anniversary call, and these had to be sent on to VK3. The deficiency for the year has been kept down to \$30.13, although no packet, with a minor exception, now pays for itself unless it contains 30 cards. A noticeable number of overseas bureaux now send cards at longer intervals. Only two lots have been received during the year from both U.S.A. and U.S.S.R.

Chas. Harrisson, VK7CH.

THE "BAND DOMINATOR" HF/VHF REGENERATIVE RECEIVER.

Constructional Notes.

This receiver is designed to use non-critical parts - the type that are found in most junk boxes! The R.F. stage (6CB6) is the only section where problems may occur, although I have made up two examples with no major problems. If you have trouble with making the regeneration work, or stabilising to a hiss, then change the resistors in the screen regen supply (i.e. the 50K pot or the 10K fixed)

The audio stage is easy as any configuration can be used, depending on valves available, or, for heretics and non-believers, those little "three-legged fuses" can be used here!

For those of you out there who have not tried regenerative receivers, some practice is needed in tuning the receivers, as they can screech and roar as tuning across the bands is done, and in the unstable state, they also act as transmitting oscillators (an interesting experimental basis on V.H.F.) So, keep it in the "hiss" region and keep the neighbours off your back!

References: 1. A.R.R.L. V.H.F. Manual (1960)
2. A.W.A. MR6A circuits.

See Over →

B.P.DILWORTH, VK7BD.

BROADCAST ARRANGEMENTS

Following endorsement of the Broadcast Committee's report by the Divisional AGM on 15.3.86, we can now look forward to further enhancement of Divisional Broadcast arrangements.

The basic thrust of the committee's recommendations is to provide for a statewide Divisional roster for broadcast purposes and to dispense with the previous "Branch by month" arrangements.

There will also be a new time for Broadcasts - 9 a.m. local time Sunday in lieu of the present 9.30 a.m. This will commence from the first Sunday in May (subject to administrative arrangements being okayed). So, get set for the earlier time.

The Broadcast Co-ordinator for the Division is Arthur VK7GH. Please see page 5 for his first informative briefing.

Divisional Council will be closely monitoring all aspects of broadcast during this year with a view to continued improvement.

PLEASE assist the Division to assist you be letting Arthur and/or your local Branch Broadcast Co-ordinator know if you are prepared to help with any facet of the Broadcasts. DO IT NOW!!!!

SO YOU WANT TO CONTACT THE EDITOR?

His name is John Rogers. His callsign is VK7JK. His telephone number is 002.293402. His address is:

1, Darville Court,
Blackman's Bay,
Hobart, 7152.

And when you lose your copy of "QRM", remember he's QTHR. When he is at home, the 2m rig is normally running and listening to Repeater 2.

To: Broadcast Co-ordinator VK7GH
34 Ashbolt Crescent, Lutana 7009

I wish to have the enclosed advertisement published on the Divisional Broadcast on Sunday at 9 a.m.

I certify that the advertisement refers to a bona fide amateur transaction, and is not concerned in any way with commercial business.

Signed Call Sign

WIRELESS INSTITUTE STORE (STOCK)
PRICE AND STATUS CORRECT AS AT 14/03/86

WIA	ITEM DESCRIPTION	STATUS	PRICE	WIA	ITEM DESCRIPTION	STATUS	PRICE
01	UNDERSTANDING AMATEUR RADIO	2 ON ORDER	\$ 8.40	40	CALLBOOK 1985 NZART	AVAILABLE	\$ 6.00
02	RADIO AMATEUR LICENCE MANUAL	AVAILABLE	\$ 6.85	41	RTTY TODAY UN.ELEC.	AVAILABLE	\$ 10.00
03	OPERATING MANUAL (2ND EDIT.)	AVAILABLE	\$ 7.60	42	WORLD PRESS SERVICE FREQ'S	AVAILABLE	\$ 10.00
04	ARRL HANDBOOK 1985	1 ON ORDER	\$ 23.70	43	AMATEUR OPERATORS H/BOOK P & T	1 ON ORDER	\$ 3.60
05	HINTS & KINKS FOR RADIO AMAT.	1 ON ORDER	\$ 6.85	44	W.I.A. BOOK VOLUME 1	1 ON ORDER	\$ 3.50
05D	NOVICE QUESTIONS & ANSWERS	IN STOCK	\$ 4.10	45	W.I.A. CALLBOOK 1985/86	6 ON ORDER	\$ 6.50
06	WEEKEND PROJECTS	AVAILABLE	\$ 7.00	45D	W.I.A. CALLBOOK 1984/85	IN STOCK	\$ 2.00
07	ARRL ANTENNA BOOK	2 ON ORDER	\$ 12.90	46	LOG SHEETS (PER 100)	AVAILABLE	\$ 2.50
08	FM & REPEATERS FOR RADIO AMAT.	AVAILABLE	\$ 8.30	47	W.I.A. LOGBOOK	IN STOCK	\$ 3.50
09	SATELLITE EXPERIMENTERS H/BOOK	IN STOCK	\$ 15.60	47D	MOBILE LOGBOOK RSGB	IN STOCK	\$ 2.40
10	RADIO AMAT. EXAM MANUAL RSGB	AVAILABLE	\$ 9.10	48	THE RADIO AMATEURS WORLD ATLAS	IN STOCK	\$ 2.00
11	RADIO AMAT. OPERATIONS MANUAL	AVAILABLE	\$ 15.60	49	STICKPIN TRADITIONAL AUST.	IN STOCK	\$ 2.00
12	RADIO COMMUNICATIONS H/BOOK	1 ON ORDER	\$ 24.50	50	STICKPIN INTERNAT. DIAMOND	IN STOCK	\$ 2.00
12D	AMATEUR RADIO AWARDS RSGB	IN STOCK	\$ 7.10	51	STICKPIN INTERNAT.(CALLSIGN)	IN STOCK	\$ 2.00
13	AMATEUR RADIO TECHNIQUES	1 ON ORDER	\$ 14.20	52	W.I.A. STICKERS (CAR WINDOW)	IN STOCK	\$.50
14	TEST EQUIPMENT FOR RADIO AMAT.	IN STOCK	\$ 14.50	53	W.I.A. MINI LOGO (SHEET OF 10)	AVAILABLE	\$ 1.00
15	HF ANTENNA'S FOR ALL LOCATIONS	2 ON ORDER	\$ 15.40	54	W.I.A. TIES	1 ON ORDER	\$ 9.50
16	VHF/UHF MANUAL RSGB	IN STOCK	\$ 21.50	55	W.I.A. KEYRING	IN STOCK	\$ 3.50
17	CALLBOOK 1985 RSGB	AVAILABLE	\$ 16.00	56	W.I.A. PENNANTS (FELT)	1 ON ORDER	\$ 4.00
18	UHF COMPENDIUM PARTS 1 & 2	AVAILABLE	\$ 35.00	56A	W.I.A. PENNANTS (SATIN)	1 ON ORDER	\$ 6.00
19	SATELLITE TRACKING SOFTWARE	IN STOCK	\$ 10.80	57	T-SHIRT (75TH ANNIVERSARY)	AVAILABLE	\$ 8.00
20	INTERFERENCE HANDBOOK	1 ON ORDER	\$ 12.00	58	DRESS SHIRT (LOGO ON POCKET)	AVAILABLE	\$ 11.00
21	WIRE ANTENNA'S FOR RADIO AMAT.	IN STOCK	\$ 9.60	59	WINDCHEATER (W.I.A. LOGO)	AVAILABLE	\$ 17.00
22	RADIO AMATEUR ANTENNA H/BOOK	IN STOCK	\$ 10.70	60	W.I.A. CLOTH BADGES	IN STOCK	\$ 2.50
23	BEAM ANTENNA HANDBOOK(NEW ED.)	IN STOCK	\$ 13.40	CA1	BELDIN COAX (RG213)/METRE	AVAILABLE	\$ 4.60
24	ALL ABOUT CUBICAL QUAD ANTENNA	IN STOCK	\$ 9.40	CA2	BELDIN COAX (RG58U)/METRE	AVAILABLE	\$ 1.55
25	CARE & FEEDING POWER GRID TUBE	AVAILABLE	\$ 10.70	CA3	ANDREWS HELIAX (LDF450)	AVAILABLE	\$ P.O.A.
26	VHF H/BOOK FOR RADIO AMATEURS	1 ON ORDER	\$ 14.50	CO3	N-TYPE ACME CONNECTOR(C39-19)	IN STOCK	\$ 7.10
27	MICROCOMPUTERS IN AMAT. RADIO	1 ON ORDER	\$ 16.60	SO1	MAGNA SOLDER & FLUX (PER FOOT)	IN STOCK	\$ 3.20
28	HAM NOTEBOOK VOLUME 1	1 ON ORDER	\$ 5.70	WI1	ENAMELLED WIRE 14 GAUGE PER/LB	IN STOCK	\$.55
29	HAM NOTEBOOK VOLUME 2	1 ON ORDER	\$ 5.70	WI2	ENAMELLED WIRE 16 GAUGE PER/LB	IN STOCK	\$.55
30	AMATEUR TELEVISION H/BOOK VOL2	1 ON ORDER	\$ 3.90				
31	AMATEUR TELEVISION H/BOOK VOL3	1 ON ORDER	\$ 3.90				
32	TV FOR AMATEURS	1 ON ORDER	\$ 3.90				
33	FORIEGN CALLBOOK 1986	AVAILABLE	\$ 29.50				
34	USA CALLBOOK 1986	AVAILABLE	\$ 30.30				
35	DX GUIDE	IN STOCK	\$ 4.70				
36	RADIO AMATEUR WORLD ATLAS	2 ON ORDER	\$ 4.70				
37	R.A. PREFIX MAP OF WORLD	4 ON ORDER	\$ 3.60				
38	A.R. AND ELECTRONIC STUDY GUIDE	AVAILABLE	\$ 13.75				
39	BASIC TRAINING MANUAL NZART	AVAILABLE	\$ 3.30				

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HIGH QUALITY

The PAL-series is not 'just' a variable (0 to rated output) switching supply. KIKUSUI have used a switching and series regulator that combine to provide a high performance and highly efficient supply. As these specifications show:

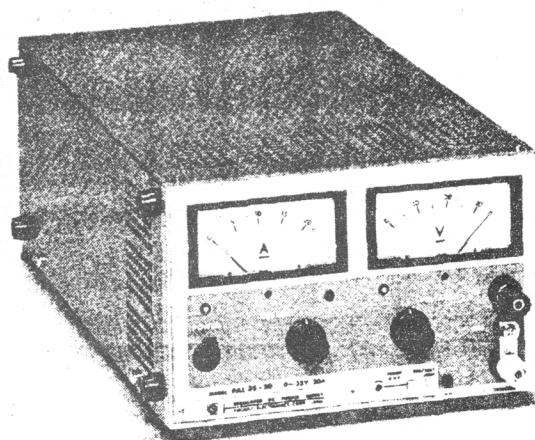
- 50 μ sec transient response (typical)
- 50 ppm/ $^{\circ}$ C constant voltage (typical)
- Lower output impedance in constant voltage mode
- Accurate and stable constant current mode.

LOW MASS

KIKUSUI has revolutionized the common concept that lab supplies are heavy. By using a new technique, the heavy power transformer and choke coil are replaced by much lighter switching circuits. This results in a 50% reduction in mass over the older style linear supply.

LOW NOISE

The extraordinary low noise characteristics achieved by KIKUSUI also allow the PAL series to be used in demanding analog applications — even audio.



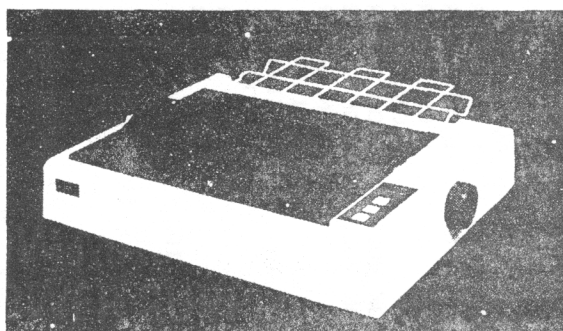
PAL SERIES

MODEL	VOLTAGE	CURRENT	MASS
PAL-10-100P	0-10V	0-100A	26kg
PAL-16-20	0-16	0-20	8.5kg
PAL-16-40	0-16	0-40	11.5kg
PAL-16-60	0-16	0-60	21kg
PAL-20-50	0-20	0-50	21kg
PAL-35-10	0-35	0-10	8.5kg
PAL-35-20	0-35	0-20	11.5kg
PAL-35-30	0-35	0-30	21kg

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MODEL	DESCRIPTION	SUGGESTED RETAIL PRICE
MC-55/2	MOBILE BOOM MIC SYSTEM 500	\$ 93.00
MC-60A	BASE STATION MIC INC. Amp. 500 /50K ohms (8P)	150.00
MC-80	BASE STATION MIC INC Amp. 700 ohms (8P)	93.00
MC-85	BASE STATION MIC ONC Amp. 3P SN 700 ohms (8P)	178.00
MJ-46	MIC ADAPTOR MIC 4 PINS-RADIO 6 PINS	15.00
MJ-48	MIC ADAPTOR MIC 4 PINS-RADIO 8 PINS	15.00
MJ-64	MIC ADAPTOR MIC 6 PINS-RADIO 4 PINS	15.00
MJ-68	MIC ADAPTOR MIC 6 PINS-RADIO 8 PINS	15.00
MJ-84	MIC ADAPTOR MIC 8 PINS-RADIO 4 PINS	15.00
MJ-86	MIC ADAPTOR MIC 8 PINS-RADIO 6 PINS	15.00
MS-1	MOBILE STAND/CHARGER FOR TR-2500 3600/2600/3600	75.00
MU-1	DCL MODEM FOR TM 2570	51.00
PB-21	NIC-CD BATTERY PACK FOR TH-21/41	49.00
PB-21H	NIC-CD BATTERY PACK HI POWER TH-21/41	65.00
PB-24	NIC-CD BATTERY PACK FOR TR-2400	49.00
PB-25	NIC-CD BATTERY PACK FOR TR-2500/ 3500	65.00
PB-26	NIC-CD BATTERY PACK FOR TR-2600	65.00
PC-1A	PHONE PATCH SUIT ALL KENWOOD	108.00
PG-2A	DC POWER CABLE FOR TR-8400/ 9500/AT-250	14.00
PG-2B	DC POWER CABLE FOR TR-7730/ 7850/7950	18.00
PG-2C	DC POWER CABLE FOR TS-120/ 130/130SE/180/43X	18.00
PG-2H	DC POWER CABLE FOR TM-201/401 TW-4000	14.00

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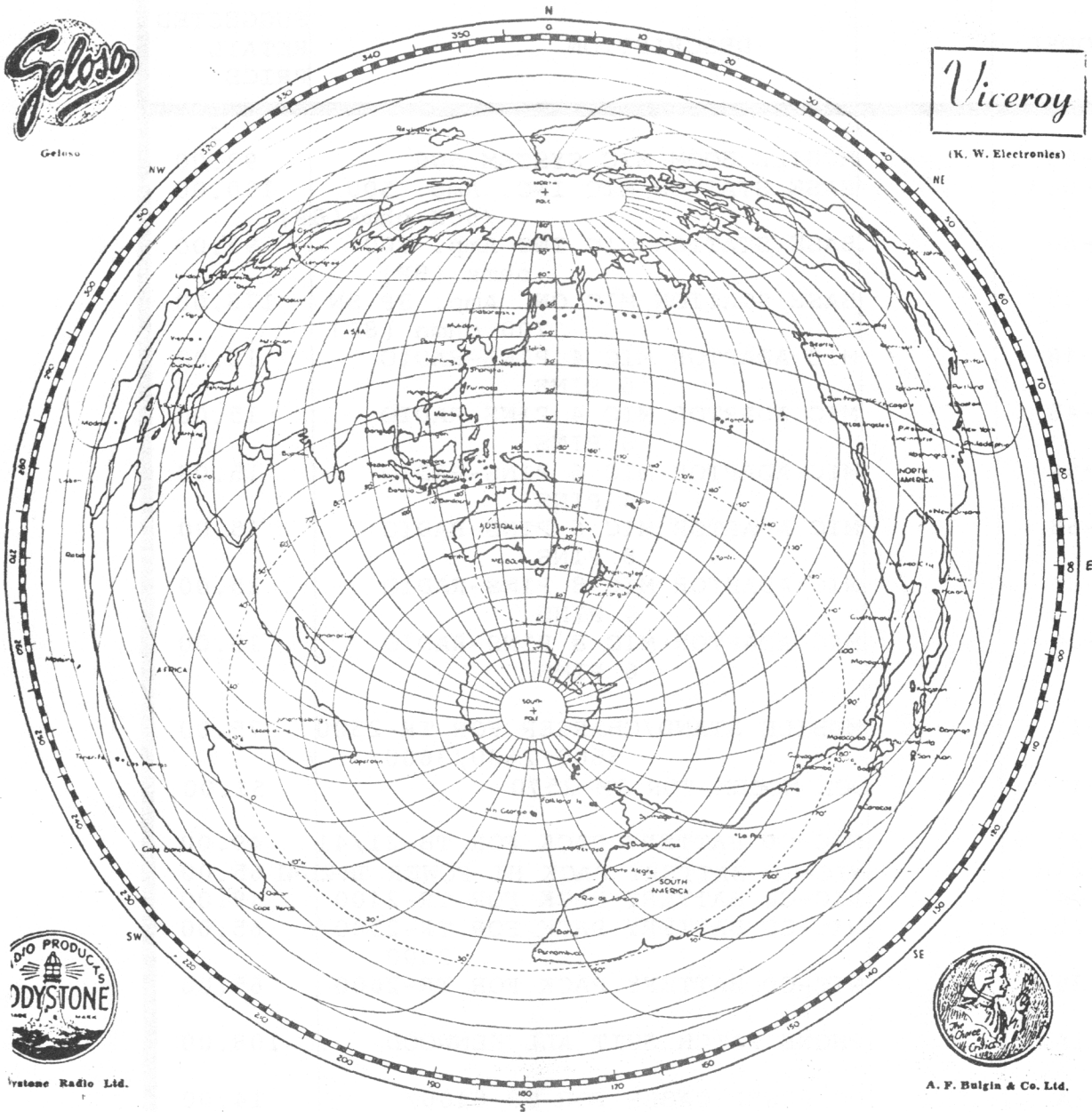
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95 Central Avenue, Sherwood. 79-2207



Supplement to "Amateur Radio," February, 1967