

JANUARY 1947

BREAK-IN

for the

RADIO AMATEUR



**SPECIAL
CALL BOOK
NUMBER**



PUBLISHED BY
NEW ZEALAND ASSOCIATION OF RADIO TRANSMITTERS (Inc.)

Registered for transmission by post as a newspaper

FOR YOUR NEW
HAM RECEIVER
CHOOSE
PHILIPS
VALVES

ECH35

Triode Hexode Frequency Changer,
Conversion Slope 650 μ A/V.
Variable μ .
Frequency drift at 20 Mc/s 3 Kc/s maximum
with hexode biased to cut-off.

Price 16/6

EF39

Variable μ High-gain RF, IF, tube.
Mutual conductance 2.2 mA/V.
Variable screen voltage characteristic.
Low noise factor.

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Double Diode Triode.
Capacity from diodes to grid less than .005 mmf.
Mutual conductance 2 mA/V.
Internal resistance at working point, 15,000 ohms.
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EL33

Steep slope output Penthode.
Mutual conductance 9 mA/V.
Driving volts only 4.2 RMS.
Output, 4.5 watts with 10% distortion: (2 x EL33
in push-pull Class AB 8.2 watts with 3.1%
distortion).
Optimum load, 7,000 ohms.

Price 13/-

All the above tubes are fitted with standard octal base, have
6.3 volt .3 amp heaters, and have metallised shielding.

PHILIPS ELECTRICAL INDUSTRIES OF N.Z. LTD.
P.O. Box 1673
WELLINGTON

THE NEW ZEALAND ASSOCIATION OF RADIO TRANSMITTERS (Inc.)

OFFICERS

President: C. G. Liddell, ZL2BI. **Vice-Presidents:** H. W. Batty, ZL1HQ; W. D. Gorman, ZL2IY; S. P. Wills, ZL3AV; C. Morris, ZL4AS. **Secretary:** W. D. Gorman, ZL2IY. **Treasurer:** A. Bornholdt, ZL2QN. **Editor:** J. F. Freeman, ZL3FB.

Association Address: G.P.O. Box 489, Wellington, C.I. **Subscription to N.Z.A.R.T.:** 7/6 per annum. All financial members receive the magazine of the Association, "Break-In," post free.

ANNUAL CALL BOOK NUMBER

This is the second Call Book of New Zealand Amateur Stations to be issued since the war. The issue of February, 1946 proved so popular that it has been decided to issue such a Call Book each year in January or early February in lieu of the normal January issue of "Break-In." This book is therefore a free service to all financial members of the Association.

The names and addresses have been supplied officially by the Post and Telegraph Dept. and include amendments and additions as per an official list dated 16th January 1947. The book is therefore fully up-to-date.

Those users of this book who are not members of the Association, particularly those with a genuine interest in Amateur Radio in any of its many phases, are invited to contact our Headquarters or any of our Branches regarding membership. A list of local Branches with relevant details will be found overleaf.

A limited number of these Call Books are available from Radio Dealers or from the General Secretary of N.Z.A.R.T. at 1/6 per copy.

N.Z.A.R.T. BRANCHES

COOK ISLANDS—Meets monthly. **Chairman:** M. J. Lee, Rarotonga. **Secretary:** Stuart Kingan, ZK1AA, Rarotonga.

AUCKLAND—**Secretary:** R. S. Thain, ZL1LT. Meets first Wednesday each month in Main Lecture Hall, Science Buildings, Auckland University, Lower Symonds St., Auckland.

NORTH SHORE—Meets monthly, (1st Monday) at Waitemata Electric Power Board Meter Test Room. **Secretary:** J. Fish, ZL1GF, 58 Lake Road, Takapuna.

HAMILTON—Meets 2nd Wednesday each month at Welding Club Rooms, Hamilton. **Secretary:** Alf Wood, ZL1FE, 96 Peachgrove Road, Claudelands, Phone 4067.

TE AWAMUTU—Meets fortnightly. **Contact:** Eva H. Nobes (Mrs ZL1CB!), Mangapiko Street, Te Awamutu.

ARAPUNI GROUP—Visiting Hams contact ZL1GW, ZL1ON or ZL1OS at Power Station.

TAUMARUNUI—Meets 1st and 3rd Tuesday each month. **Secretary:** F. Taylor, ZL1QL, Box 17. **Chairman:** C. Baldrop, ZL1LX

GISBORNE—Meets Army Drill Hall alternatively on 1st Monday or 1st Thursday of each month. **Chairman:** Basil R. Page, ZL2TC. **Secretary:** Harry A. Coleman, ZL2TK. **Contact:** Clem Smith, ZL2DM, 94 Derby Street, Phone 4612.

NEW PLYMOUTH—Meets alternate Tuesdays in Central School Scot. Hall, Penderes Street, at 7.30 p.m. **Chairman:** J. Pinhey, ZL2LE. **Secretary:** R. Brewster.

EGMONT—Meets 1st Sunday each month. **Secretary:** Denis Rush, ZL2TB, 14 Mountain Road, Eltham, Phone 312. **Chairman:** Les White, ZL2HQ, Ladies Mile, Eltham.

WANGANUI—Meets 1st Wednesday each month in C. L. Duigan's Rooms, Ridgway St., Wanganui at 7.30 p.m. **Chairman:** E. Holst, ZL2CO. **Secretary:** Chas. Berry, ZL2BY, 20 Rata Street, Phone—Day 2137.

HASTINGS—Meets 1st Sunday each month at places to be arranged. **Chairman:** N. Padman, ZL2QS, Phone 2091. **Secretary:** R. N. Thompson, Phone 6083 after 6 p.m.

CENTRAL HAWKE'S BAY—Meets 1st Sunday each month at 2 p.m. at various homes on "rota" basis. **Secretary:** Graham Goodger, ZL2RP, Waipukarau, Phone 175M and D. **Chairman:** H. T. Hutana, ZL2JY, Waipawa, Phone 52.

MANAWATU—Meets 3rd Tuesday each month, Railway Social Hall, Church Street, Palmerston North. **Chairman and Contact Officer:** Ray Hanley, ZL2GU. **Secretary:** Dick Chatfield, ZL2VL, 21 Pirie St., Palmerston North.

OHAKEA, R.N.Z.A.F.—Meets first Wednesday each month at 7.30 p.m. in Education Building R.N.Z.A.F. Station, Ohakea. **Chairman:** F/O Goodwin **Secretary:** F/Sgt M. McLeod.

DANNEVIRKE—Meets regularly. **Chairman:** B. H. Guilliard, ZL2JF, 4 Barraud Street, **Secretary:** Jim Meldon.

WAIRARAPA—Meets 3rd Wednesday each month at 7.30 p.m. **Chairman:** S. M. Bell, ZL2MU, Maroa, Greytown. **Secretary:** W. D. Barnes, ZL2OD, 8 Second St., Masterton.

UPPER HUTT—Details awaited. **Contact:** B. R. S. Anderson, ZL2CS, 187 Main Road, Upper Hutt.

HUTT VALLEY—Meets 1st Sunday every month in Hibernian Society Hall cnr. Victoria and Tama Sts., Lower Hutt. **Secretary:** Rex Randall, ZL2RX, 257 Jackson St., Petone. **Chairman:** Ken Hanlon, ZL2UJ.

WELLINGTON—Meets every fourth Thursday at W.E.O.G. Dramatic Club Rooms, Hunter St., (next M.L.C. Building). **Secretary:** J. F. Murphy, ZL2RT, 117 Cashmere Ave., Khandallah.

NELSON—Meets third Thursday each month in the W.C.T.U. Building, Collingwood St., Nelson. **Secretary:** Pat Hight, ZL2MA, 2 Milton Street, Nelson.

WESTLAND—**Chairman:** Sid Wills, ZL3AV. **Secretary:** Paul Daniels, ZL2DX.

CHRISTCHURCH—Meets 1st Tuesday each month at 7.45 p.m. in Hay's Tea Rooms, Gloucester Street. **Secretary:** Ray Anderson, ZL3JW, 262 Lincoln Rd. **Chairman:** J. F. Freeman, ZL3FB.

ASHBURTON—Details awaited.

SOUTH CANTERBURY—Meets second Monday each month at 7.30 p.m. in Timaru Radio Club's Rooms, 53 Church St., Timaru. **Tuition Classes** every Monday at 7.30 p.m. **Chairman:** J. N. McKim, ZL3LL. **Secretary:** R. Vincent.

DUNEDIN—Meets every Wednesday at 7.30 p.m., 151-3 Stuart St., Dunedin. **Secretary:** Mr. H. W. Natta, ZL4AR, 137 Bay View Rd., Dunedin. Phone, day, 14-460; Private 23-552.

EASTERN SOUTHLAND—Meets every 1st and 3rd Thursday each month at Radio Centre, Irk St., Gore **Contact Members:** Mr. I. Whyte, C/o Radio Centre, Gore, or H. Callender, Main St., Gore. **Secretary:** Mr G. Kitto, 5 Anzac Street, Gore.

SOUTHLAND—Meets 2nd Tuesday each month. **Secretary:** N. Hall. **Chairman:** A. Ellis, ZL4FG.

INTERNATIONAL AMATEUR PREFIXES

This list is merely a guide and does not claim to be correct. It is based on pre-war allocations and information gleaned from various recent international publications, DX contacts, etc. It is impossible to be accurate because of:—

1—The number of undercover stations using self allotted prefixes and calls, e.g.: YR5X, XQ4BB, PR4AA, YR5USA, RL and RV are one and the same station—from R.S.G.B., July 1946.

2—Recent alterations where countries have changed their sovereignty, and no recent information is to hand.

3—Divergence of opinion by Hams in some localities where no governing body has issued licences as to the correct prefix to use

4—Re-allocation of prefixes frequently, e.g. VS 3-4-5 JH.

Tibet	AC4	French India	FN
Syria	AR	Tahiti (Fr. Ocean.)	FO8
China	C	Miquelon and St. Pierre Islands	FP8
Chile	CE	Fr. Equator. Africa	FQ8
Cuba	CM-CO	Reunion Island	FR8
Tangier Zone	CN1	Tunisia	FT4
Morocco (French)	CN8	New Hebrides	FU8-YJ
Bolivia	CP	French Guinea and Inini	FY8
Cape Verde Islands	CR4	England	G
Port. Guinea	CR5	Channel Isles	GC
Angola	CR6	Northern Ireland	GI
Mozambique	CR7	Scotland	GM
Port. India Goa	CR8	Wales	GW
Port. Macau	CR9	Hungary	HA
Timor Island	CR10	Switzerland	HB
Portugal	CT	Ecuador	HC
Azores	CT2	Haiti	HH
Madeira Islands	CT3	Dominican Republic	HI
Uruguay	CX	Colombian Republic	HJ-HK
Germany, Brit. Zone	D2	Panama	HP
Germany, USA Zone	D4	Honduras	HR
Spain	EA	Siam	HS
Belearic Islands	EA6	Hedjaz	HZ
Canary Islands	EA8	Italy	I
Morocco (Spanish)	EA9	Eritria	16
Irish Free State	EI	Japan	J
Tangier Zone	EK1	Brit. Forces in Japan	J4
Liberia	EL	Chosen (Korea)	J8
Iran (Persia)	EP-EQ	Marshall Islands	J9
Estonia	ES	Formosa (Taiwan)	J9
Ethiopia	ET	Phillipines	KA
France	F	Baker, Howland Is. Am. Phoenix Group	KB6
Algeria	FA	Baker, Howland Island,	
Madagascar	FB8	Am. Phoenix Group	KB6
Togoland (French)	FD8	Guam	KG6
Cameroons (French)	FE8	Hawaiian Islands	KH6
Fr. West Africa	FF8	Johnstone Is.	KJ6
Guadeloupe	FG8	Alaska	KL7
Fr. Indo China	F18	Midway	KM6
New Caledonia	FK8	Porto Rico	KP4
Fr. Somaliland	FL8	Jarvis Is., Palmyra Group	KP6
Martinique	FM8	Samoa (USA)	KS6
		Virgin Islands	KV4
		Wake	KW6
		Canal Zone	KZ5-NY
		Norway	LA-LH
		Argentina	LU
		Luxembourg	LX
		Lithuania	LY
		Bulgaria	LZ
		Manchukuo	MX
		Canal Zone (USA)	NY
		Peru	OA
		Was in Sarawak area	OB
		Lebanon	OD
		Austria	OE
		Finland	OH
		Czechoslovakia	OK
		Belgium	ON
		Belgian Congo	OO5
		Greenland	OX
		Fareroes Is.	OY
		Jan Mayen Is.	OY
		Denmark	OZ
		Netherlands	PA

Curacao	PJ	Burma	XZ2
Java	PK1-2-3	Afghanistan	YA
Sumatra	PK4	Iraq	Y1
Borneo (N.E.I.)	PK5	New Hebrides,	FU8-YJ
Celebes and Molucca Islands	PK6	Latvia	YL
Dutch New Guinea	PK6	Danzig	YM
Andorra	PX	Nicaragua	YN
Brazil	PY	Roumania	YR
Surinan	PZ	Salvador	YS
Sweden	SM	Yugoslavia	YI-YU
Poland	SP	Venezuela	YV
Sudan	ST	Albania	ZA
Egypt	SU	Malta	ZB1
Crete	SV	Gibraltar	ZB2
Greece	SV	Tran Jordania	ZC1
Turkey	TA	Cocos Island	ZC2
Iceland	TF	Christmas Island	ZC3
Guatemala	TG	Cyprus	ZC4
Costa Rica	TI	Palestine	ZC6
U.S.S.R.	U-UA-UK	Sierra Leone	ZD1
Canada	VE	Nigeria and Brit. Cameroons	ZD2
Australia	VK	Gambia	ZD3
Also Papua	VK4	Gold Coast, British Togoland	ZD4
Tasmania	VK7	Nyasaland	ZD6
New Guinea	VK9	St. Helena	ZD7
Newfoundland	VO	Ascension Island	ZD8
British Honduras and Zanzibar	VP1	Tristan Da Cunha	ZD9
Leward Is., Windward Is. & Antigua	VP2	Sth. Rhodesia	ZE
British Guinea	VP3	Cook Island	ZK1
Trinidad and Tobago Island	VP4	Niue	ZK2
Jamaica, Cayman Island, Turks and Caicos Is.	VP5	New Zealand	ZL
Barbados	VP6	Brit. Samoa (West.)	ZM
Bahama	VP7	Paraguay	ZP
Falkland Is. Sth. Georgie Is. Sth. Orkney Is. and Sth. Shetland Is.	VP8	South Africa	ZS
Bermuda	VP9	South West Africa	ZS3
Nth. Rhodesia	VQ2	South Africa	ZT
Tanganyika	VQ3	South Africa	ZU
Kenya	VQ4		
Uganda	VQ5		
Brit. Somaliland	VQ6		
Mauritius	VQ8		
Seychelles Is.	VQ9		
Gilbert, Ellice, and Ocean Islands	VR1		
Fiji	VR2		
Fanning Is.	VR3		
Solomon Is.	VR4		
Tonga (Friendly Is.)	VR5		
Pitcairn Is.	VR6		
Sts. Settlements	VS1		
Fed. Malay States	VS2		
Non-Fed. Malay States	VS3		
Brit. Nth. Borneo, and Sarawak	VS4		
Labuan and Brunei	VS5		
Hong Kong	VS6		
Ceylon	VS7		
Bahrein, Khuria, & Muria Islands	VS8		
Aden	VS9A and another letter		
Kamara	VS9K and another letter		
Perim Island	VS9P and another letter		
Socotra	VS9S and another letter		
India	VU		
Bahrien Is.	VU7		
U.S.A.	W		
Mexico	XE		
China	XU		
Mongolia	XU4		

FREQUENCY ALLOCATIONS

For the purpose of the record we advise that the full pre-war 40 and 20 metre bands were re-allocated for our use as from November 15th last.

For general information we print below the frequency bands now available to N.Z. amateurs.

For General Use—

- 3.5—3.96 Mc/s: C.W. and A.M. 'phone.
- 50—54 Mc/s: C.W. and A.M. 'phone.
- 52.5—54 Mc/s: F.M. and P.M. 'phone.

For High-Frequency Permit Holders—

- 7.0—7.3 Mc/s: C.W. only.
- 14.0—14.4 Mc/s: C.W.
- 14.2—14.3 Mc/s: A.M. 'phone (by special permit).
- 28—30 Mc/s: C.W. and A.M. 'phone.
- 166—170 Mc/s: C.W., A.M., F.M., and P.M., 'phone.
- 420—450 Mc/s: C.W., A.M., F.M., and P.M., 'phone.
- 1345—1425 Mc/s: C.W., A.M., F.M., and P.M., 'phone

NEW LINES

Bezels, red with l.h.	Each	2/-	Plug—	Amphenol 71-1S, for 3/32" socket	1/-
" " without l.h.		1/5		Howard Jones, 4, 6, and 8-way, for cable end and chassis, from	2/1
Grid Clips, Small		1½			
" " Medium		2½			
" " Large		10		Polystyrene, Sheet 1/8", sq. inch	-/3
Condensers— (See also September issue)	Each			" " 3/16", sq. inch	-/3½
.00025 mfd. 6.0 KV working		9/3		" " Rod 3/16", per foot	1/3
.001 " 4.0 " "		11/6		" " 1/4", per foot	2/2
.002 " 4.0 " "		14/9		" " 1/2", " " "	4/3
2.0 " 2.0 " "		36/-		" " 3/4", " " "	6/9
4.0 " 2.0 " "		46/-		" " 1", " " "	19/-
Electro's, 8.0 mfd. 450.0v. working		4/9		" " 1½", " " "	32/6
" 32.0 " 500.0v. "		10/9		Potentiometers—	
Gangs, 385.0 mmfd. 2 gang		18/-		Carbon, from 25K up	3/9
" 450.0 " 3 "		19/3		Wire wound, 1K, 2K, 5K, 15K, 20K, 25K, all 4-watt	6/-
Connectors, Amphenol Single MC1M		3/3		50K, 4-watt	7/10
" " " MC1F		3/3		Resistors—	
" " " PC1M		2/8		½ watt, good selection	doz. 6/-
" " " 80M		5/7		1 " good selection	doz. 7/6
" " " 80F		5/7		2 " 1K, 2.5K, 5K, 10K, 25K,	
" " " 80C		3/6		" 75K, 100K	doz. 9/-
" " " MC3M		4/11		3 " 10K, 20K	doz. 10/6
" " " PC3F		3/2		25 " 25K	each 5/7
Crystal Holders		19/6		50 " 50K	each 10/6
Dials, Crowe 294 Slow Motion		28/6		100 " 10K	each 15/3
" National Type "N"		55/-		100 " 30K	each 15/3
" " " "ACN"		45/-		200 " 10K	each 19/-
Formica Sheet, 1/16"	sq. ft.	4/6		Socket—	
" " 1/8"	sq. ft.	6/-		Amphenol, 78-1S for 71-1S plug, ea.	1/2
" " 3/16"	sq. ft.	8/2		Octal Amphenol	dozen 6/-
Headsets, Dynamic, 75 ohms.		21/-		Octal Amphenol, 54-8 polystyrene, each	3/3
Meters—				Johnston, 50-watt	each 10/9
0-50 microamp. Electrotec		150/-		Terminals, Belling Lee, large.	each 2/4
0-100 M.A. R.F. Weston		105/-		" " " medium	each 1/3
0-1 " Sifam, 2" sq.		73/-		Valves—	Each
0-1 " Simpson, 2½" rnd.		67/6		5X4G	9/3
0-1 " Westinghouse, 3" sq.		90/-		5Z3	9/3
0-25 " Burlington, 3" sq.		55/-		6F6	9/7
0-20 " Sifam, 2½" sq.		68/9		6H6	9/3
0-50 " Simpson, 3" sq.		75/-		6J5	8/6
0-100 " Burlington, 3" sq.		55/-		6N7	11/3
0-150 " Burlington, 3" sq.		55/-		6L6G	13/-
0-300 " Burlington, 3in sq.		55/-		6SJ7	9/4
0-150-watts Triplett		£12/5/-		6U5/6E5	13/-
Microphones—				6V6/ GT/G	9/1
Dynamic Hand Type, with cord		26/6		866/866A (not rejects)	15/10
Carbon Hand Type, with cord		17/6		807 (not rejects)	33/6
Imported English "Cycloid"				9002-3-4	17/6
Dynamic, chrome finish and high fidelity		£7/18/6		Vibrator Power Supply (12v.)	£5/5/-
Multitesters—				Wire Pushback, 6 colours, 100ft	10/6
American R.C.P., pocket size		£15/12/6			

AND MANY OTHER LINES

W. G. LEATHAM, A.A.S.E.
P.O. Box 11 - LOWER HUTT

Registered with War Assets Realisation Board for Direct Purchase

USEFUL OPERATING DATA

OPERATING PRACTICE

R.S.G.B.'s Council recommends the use of the undermentioned Q signals which we suggest be used by ZL operators:—

QBK?—Can you work break-in?

QBK—I can work break-in.

QHI?—Shall I move higher in frequency?

QHI—More higher in frequency.

QLO?—Shall I move lower in frequency?

QLO—Move lower in frequency.

It is also recommended the greater use be made of the following:—

QHM—I am searching for replies from the high frequency end of the band to the middle.

QLM—I am searching for replies from the low frequency end of the band to the middle.

QMH—I am searching from the middle to the h.f. end of the band.

QML—I am searching from the middle to the l.f. end of the band.

QSQ—Send words once only.

QSY—I will send a series of vees.

OPERATION OF V.F.O.'s.

The increasing popularity of these excitors has prompted A.R.R.L. to suggest some procedure signals to cover their operation and we reprint these below. It is very bad practice to call a station exactly on his frequency or on the frequency of the station he is working because of the danger of interfering with the QSO in progress. This is particularly so on the DX bands where the practice is becoming too prevalent.

The A.R.R.L. suggested signals are:—

NS—I shall listen for answers close to, but not on, this frequency. Call me 1 to 5 Kc/s on either side.

There will be cases where we do not know if the other fellow is equipped with V.F.O. When necessary to determine this, we suggest the following signals:

Question: VF?—Are you using variable frequency control?

Answers: VF—I am using variable frequency control. **CC**—I am using fixed (crystal) frequency control.

Once we are sure the other fellow is equipped with V.F.O. we can ask him to shift to our frequency. But we must have simple, concise way of asking. Or, if we intend to shift to the station whose CQ we answered, how to tell him so? We suggest the signal QZF, which means:

Question: QZF?—Shall I zero-beat (tune) my transmitter to your frequency (or to the frequency of . . .)?

Answer or Request: QZF—Zero-beat (tune) your transmitter to my frequency (or to the frequency of . . .).

W.A.C. CERTIFICATES

These certificates are issued by the International Amateur Radio Union through its Headquarters Society, the American Radio League.

To claim a W.A.C. (Worked All Continents) Certificate evidence must be produced confirming contacts with licensed amateur radio stations on all the six continents; Europe, Asia, Africa, North and South America and Oceania. Special endorsements are available if W.A.C. is worked on 10 Metre Band.

QSL Cards should be submitted to the General Secretary, N.Z.A.R.T., Box 489, Wellington. If found in order, the I.A.R.U. will be notified and will issue a certificate. A stamped addressed envelope should be enclosed for the return of the cards.

Financial Members of a Member Society of I.A.R.U. (i.e.—N.Z.A.R.T.) only are eligible.

B.E.R.T.A. AWARD

This certificate is issued by the Radio Society of Great Britain under similar conditions to the W.A.C. Certificate. The British Empire Radio Transmission Award requires proof of contacts with 40 Dominion and British Colonial Zones.

W.B.E. CERTIFICATES

...Other certificates issued by R.S.G.B. are the W.B.E. Series (Worked British Empire) for contacts with a British Empire Zone in each of the five continents, separate awards being given for telephony and telegraphy and for 28 Mc/s work.

Qualification evidence may be sent to N.Z.A.R.T. as in the case of the W.A.C. Certificate. Financial Members of N.Z.A.R.T. (as a member society of the British Empire Radio Union) are eligible only.

HIGH FREQUENCY PERMITS

The requirements for these permits are:—

- 1.—Six months' consistent operation on 3.5 Mc/s. band.
- 2.—Ability to send fluently and receive 15 words per minute.
- 3.—A good knowledge of the Q-code.
- 4.—Station to be equipped with a monitor or calibrated receiver and an accurate frequency meter.
- 5.—Power supply to be adequately filtered, note pure D.C., and sharply tuneable.

All applications for permits should be made to the respective District High Frequency Testing Station—as set out opposite.

The Post Office has now advised that those who have passed the test for the High-Frequency Permit are permitted to operate on all high-frequency bands allotted for amateur communication.

High Frequency Testing Stations are as below:—

- 1st District: ZL1HQ—Mr. H. W. Batty.
- 2nd District: ZL2AB—Mr. D. Wilkinson.
- 3rd District: ZL3AF—Mr. J. Strachan.
- 4th District: ZL4BQ—Mr. F. Frame.

20-METRE 'PHONE PERMITS

Brief details are:—

- (1) Permitted from 30th November, 1946, between 14,200-14,300 Kc/s.
- (2) 3 months' trial of unrestricted hours.
- (3) **Qualifications:** (a) H.F. Permit required. (b) Sound technical knowledge necessary. (c) High Morse standard to be maintained. (d) 6 months' experience on 10-metre 'phone, with at least 25 overseas QSO's on this band.
- (4) **Technical Equipment Required:** (a) crystal control. (b) At least one buffer stage. (c) Approved frequency meter. (d) Approved over-modulation meter. (e) Approved monitor.

Application to be made to N.Z.A.R.T. for new permits. Holders of pre-war 20-metre 'phone permits to re-apply to Director-General (Radio Division), P. and T. Department, Wellington, enclosing previous permit and certifying that condition (4) above has been complied with.

QSL BUREAU MANAGERS

- 1st District: Mr R. S. Thain, ZL1LT, 22 West View Road, Grey Lynn, Auckland.
- 2nd District: Mr W. Fouhy, ZL2LB, 99 Washington Avenue, Brooklyn, Wellington, or c/o Box 489, Wellington.
- 3rd District: Mr I. A. G. McCulloch, 38 Retreat Road, Christchurch.
- 4th District: Mr H. Natta, ZL4AR, 137 Bayview Road, St Kilda, Dunedin.

The above will, as far as possible, distribute district cards.

Send your outward cards direct to the QSL Bureau Manager, Mr W. Fouhy, Box 489, Wellington, with a remittance of 6d per dozen cards.

File a stamped addressed large envelope with your District Bureau to ensure receiving your inward cards.

SIGNAL REPORTING

The International Regulations lay down two scales for this purpose—Strength (QSA 1-5) and Readability (QRK 1-5). Amateur practice, however, is to use a system evolved by W2BSR known as the "RST System." This system is given below, as are the international QSA and QRK scales.

The RST System is an abbreviated method of indicating the main characteristics of a received signal, and the method of using it is extremely simple. The letters RST determine the order of sending and in asking for this form of report one need only transmit—RST? or simply—QRK?

Such a signal report as "RST387X" will be interpreted as "Your signals are readable with considerable difficulty; good signal strength; near d.c. note, smooth ripple; crystal characteristic noticed." Thus, a single group will constitute a complete report on an amateur signal.

THE INTERNATIONAL SYSTEM

Strength

- QSA1—Barely perceptible.
- QSA2—Weak.
- QSA3—Fairly good.
- QSA4—Good.
- QSA5—Very good.

Readability

- QRK1—Unreadable.
- QRK2—Readable now and then.
- QRK3—Readable with difficulty.
- QRK4—Readable.
- QRK5—Perfectly readable.

THE "RST" SYSTEM

READABILITY (R)

- 1—Unreadable.
- 2—Barely readable, occasional words distinguishable.
- 3—Readable with considerable difficulty.
- 4—Readable with practically no difficulty.
- 5—Perfectly readable.

SIGNAL STRENGTH (S)

- 1—Faint—signals barely perceptible.
- 2—Very weak signals.
- 3—Weak signals.
- 4—Fair signals.
- 5—Fairly good signals.
- 6—Good signals.
- 7—Moderately strong signals.
- 8—Strong signals.
- 9—Extremely good signals.

TONE (T)

- 1—Extremely rough hissing note.
- 2—Very rough a.c. note, no trace of musicality.
- 3—Rough, low-pitched a.c. note, slightly musical.
- 4—Rather rough a.c. note, moderately musical.
- 5—Musically modulated note.
- 6—Modulated note, slight trace of whistle.
- 7—Near d.c. note, smooth ripple.
- 8—Good d.c. note, just a trace of ripple.
- 9—Purest d.c. note.

(If the note appears to be crystal controlled simply add an X after the appropriate number.)

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THE "Q" CODE

In the International Radiotelegraph Regulations the following very useful and internationally agreed code is given to meet the major needs in international radio communication. We have omitted several signals which have little bearing on Amateur work.

When the abbreviation is followed by an interrogation mark (?) it has the meaning shown. When without the (?), the signal becomes the appropriate answer.

- QRA—What is the name of your station?
QRB—How far approximately are you from my station?
QRG—Will you tell me my exact frequency (wave-length) in kc/s (or m)?
QRH—Does my frequency (wave-length) vary?
QRI—Is my note good?
QRJ—Do you receive me badly? Are my signals weak?
QRK—Do you receive me well? Are my signals good?
QRL—Are you busy?
QRM—Are you being interfered with?
QRN—Are you troubled by atmospherics?
QRO—Shall I increase power?
QRP—Shall I decrease power?
QRR—Shall I send faster?
QRS—Shall I send more slowly?
QRT—Shall I stop sending?
QRU—Have you anything for me?
QRV—Are you ready?
QRW—Shall I tell.....that you are calling him onkc/s (or.....m)?
QRX—Shall I wait? When will you call me again?
QRY—What is my turn?
QRZ—Who is calling me?
QSA—What is the strength of my signals (1 to 5)?
QSB—Does the strength of my signals vary?
QSD—Is my keying correct; are my signals distinct?
QSG—Shall I send.....telegrams (or one telegram) at a time?
QSK—Shall I continue with the transmission of all my traffic, I can hear you through my signals?
QSL—Can you give me acknowledgement of receipt?
QSM—Shall I repeat the last telegram I sent you?
QSO—Can you communicate with.....direct (or through the medium of.....)?
QSP—Will you retransmit tofree of charge?

- QSR—Has the distress call received frombeen cleared?
QSU—Shall I send (or reply) on.....kc/s (or m) and/or on waves of Type A1, A2, A3, or B?
QSV—Shall I send a series of VVV.....?
QSW—Will you send on.....kc/s (or.....m) and/or on waves of Type A1, A2, A3 or B?
QSX—Will you listen for.....(call sign) on.....kc/s (or.....m)?
QSY—Shall I change to transmission on.....kc/s (or.....m) without changing the type of wave?
Shall I change to transmission on another wave?
QSZ—Shall I send each word or group twice?
QTA—Shall I cancel telegram No.....as if it had not been sent?
QTB—Do you agree with my number of words?
QTC—How many telegrams have you to send?
QTG—Will you send your call sign for fifty seconds followed by a dash of ten seconds on.....kc/s (or.....m) in order that I may take your bearing?
QTH—What is your position in latitude and longitude (or by any other way of showing it)?
QTT—Can you communicate with my station by means of the International Code of Signals?
QTR—What is the exact time?
QTU—What are the hours during which your station is open?
QUA—Have you news of.....(call sign of the mobile station)?
QUC—What is the last message received by you from.....(call sign of mobile station)?
QUD—Have you received the urgency signal sent by.....(call sign of the mobile station)?
QUM—Is the distress traffic ended?

●

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GREAT CIRCLE BEARINGS

Great Circle Bearings to some of the more important countries appear below. No great accuracy is claimed but as most amateur beams are relatively broad this is unnecessary. In addition over long paths such as ZL—G, signals frequently arrive 20° or more off the great circle bearing. Of course long scatter from Sporadic E can cause signals to arrive from practically any direction.

The writer will be pleased to supply bearings for other paths if the positions of the end points are supplied.

All bearings are reckoned clockwise from true north.

	Auck.	Wgtn.	Ch'ch.	Dun.
Australia—				
Sydney	275	290	295	305
Perth	255	265	270	275
Asia—				
Delhi	285	290	290	295
Tokyo	335	335	335	340

	Auck.	Wgtn.	Ch'ch.	Dun.
America—				
Chicago	60	55	55	60
San Francisco	45	40	40	45
Vancouver	35	35	35	35
Rio de Janiero	145	140	145	150
Miami	80	75	75	80
Winnipeg	60	55	55	55
Europe—				
London	340	350	320	300
Oslo	335	345	320	310
Berne	300	320	310	300
Moscow	305	320	300	310
Africa—				
Cairo	260	270	270	270
Capetown	200	205	205	210
Pacific—				
Honolulu	25	25	30	30
Rarotonga	50	40	45	50

These bearings have been supplied by Allan Gardner, ZL3HD, of the Ionosphere Laboratory, D.S.I.R. Box 1152, Christchurch, to whom we express our gratitude.

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LAWS OF AMATEUR RADIO

These laws are by no means official regulations but are compiled in the interest of all Amateurs who use any of our crowded bands particularly the 80 metre band. The self imposed rules have been gathered from long experience and information obtained from the recent questionnaire held amongst New Zealand Amateurs.

1. No recordings of any description to be played between the hours of 7 p.m. and 11 p.m.
2. No duplex or triplex to be worked between the hours of 7 p.m. and 11 p.m. on any night of the week.
3. No testing of any description unless on a dummy antenna between the hours of 7 p.m. and 11 p.m.. This applies to both phone and c.w.

4. Make your overs short and frequent.
5. Always use correct operating procedure.
6. Always sign your call on a test transmission.
7. On c.w. call at a reasonable speed until you contact a fast operator.
8. On phone use good plain English and not c.w. abbreviations. On no account whistle into a microphone.

Remember, when you are using your frequency unnecessarily someone may be wanting to use it for communication purposes. Co-operation with these laws will enable us to get the most use of our bands.

OPERATING PROCEDURE

C.W. PROCEDURE

Calling CQ, or calling ZL1AA—"CQ, CQ, CQ de ZL2AA, ZL2AA, ZL2AA"—All this repeated 3 times. Until actual contact has been made, "AR" only should conclude the calling.

Contact made—ZL1AA de ZL2AA once only is required followed by "BT." Send your over then "AR" followed by "ZL1AA de ZL2AA K."

Final Signing at end of Contact—"ZL1AA de ZL2AA SK" which means that you will look around the band for calls from other stations before transmitting again.

In unofficial amateur practice "CL" after "SK" means closing down without looking around for further calls.

PHONE PROCEDURE

Calling CQ or another station—"Hullo CQ or ZL1AA—This is ZL2AA calling" 3 times each and repeated for 80 metres for a maximum period of 3 minutes. At the conclusion of the call one of the following phrases may be used—

1. "ZL2AA is looking around the band (starting from the High or Low Frequency end)—over."
2. "ZL2AA is going to the receiver—over."

3. "ZL2AA is standing by at the receiver—over."

For a period of 3 minutes look around the band and if no answer to the call is received you may repeat the procedure for a further 3 minutes.

It is extremely bad practise to call a long CQ.

Contact Established—"Hullo ZL1AA, ZL2AA answering (or in reply). Your signals received." If received less than QSA5 give a report on readability in the approved manner. When signing at the end of the over "ZL1AA this is ZL2AA over."

Signing Off—"ZL1AA this is ZL2AA signing off," and "looking around the band" or "closing down," as the case may be.

BREAK IN OPERATION

During the calling up procedure on c.w. send "BK" at the conclusion of one's own call, and on phone say "Break-In please."

During Break-In or Push to Talk operation it is only necessary to identify your station every quarter of an hour.

It is bad practise to use c.w. abbreviations on Telephony communication except in the recognised methods of reporting signals, i.e., "QSA5 R8," etc. The use of the word "hi" and whistling into a microphone are practices to be avoided at all costs.

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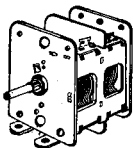
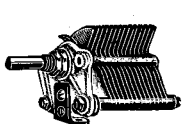
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- ZL2CC—Rowe, C. F., 7 Pharazyn Street, Lower Hutt.
- ZL2CD—Day B. C., House 30, R.N.Z.A.F. Station, Ohakea.
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- ZL2CF—Speedy, S., Herbertville, Hawkes Bay.
- ZL2CG—Cornick, M. L., 33 Kells Avenue, Wanganui.
- ZL2CH—Gallagher, E. E., 17 Adams Tce, Wellington, C.2.
- ZL2CI—Sinton, A. J., 46 McDonald Street, Gisborne.
- ZL2CJ—Upchurch, E. G., Whiteman's Valley Road, Upper Hutt.
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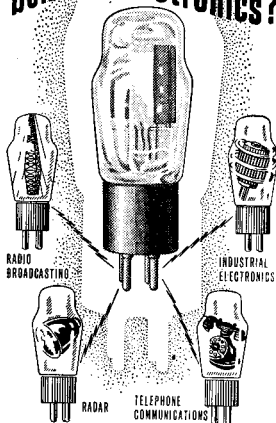
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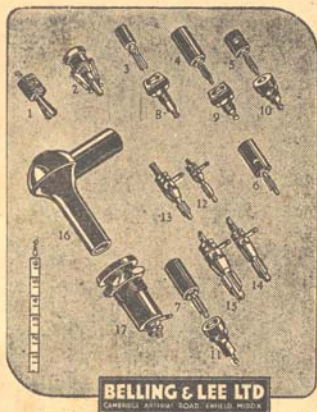
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