



Australian Military Forces

MECHANICAL MAINTENANCE PAMPHLI WIRELESS No. 1 (AUST.)

REPAIR INSTRUCTIONS FOR A. A. O. C. WORKSHOPS

WAVEMETER CLASS "C" No. 1 (AUST.)
AND

UNITS H.T. VIBRATORY No. 1 (AUST.)

1942

Prepared by the Director of Mechanical Maintenance L.H.Q. (Aust.)



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CONTENTS

List of Plates and Drawin	ngs .				 		Page	1
General Description			,	<u></u> -	 	****	,,	3
Working Instructions .					 		**	4
Maintenance Instructions .					 		,,,	5
Recalibration		****	****		 		,,	5
List of Components			****		 		,, 7	-9

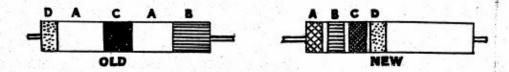
PLATES

Plate	1-Wa	vemeter,	Class	"C,"	No. 1	(Aust	.)—Front	lew		Page	10
Plate	2—	,,	,,	,,	,,		-Remove	d from Ca	ase	"	11
Plate	3—	,,	,,	,,		,,	Undern	eath View	of Chassis		12
Plate	4—	,,	,,	,,	**		—Details	of Case		**	13
Plate	5—Un	its H.T.	Vibrat	ory N	lo. 1 (Aust.)-	-Full View			**	14
Plate	6—	, ,,	,,		,,	,, -	-Removed	from Case		**	14
		·			DF	RAWI	NGS				<i>y</i> 8
Fig.	1—Sche	ematic D	iagran	-W	avemet	ter, Cla	ass "C," No	o. 1 (Aust	.)	,,,	15
Fig.	2—Sche	matic D	agram	-U	nits H.	T. Vibi	ratory No.	1 (Aust.)		,,	16



RESISTOR COLOR CODING

Two systems of marking may be in use in the service. The differences are as indicated below:—



- A. Color for 1st Significant Figure.
- B. Color for 2nd Significant Figure.
- C. Color for Multiplier.
- D. Tolerance, when applied.

Cole	or		Signific	ant Figure	Multiplyi	ng Value
Black		·		0	1	
Brown	·			1	10	
Red				2	100	
Orange				3	1,000	
Yellow		****		4	10,000)
Green	f			5	100,00	00
Blue				6	1,000,	000
Violet				7	10,000	,000
Grey				8	100,00	00,000
White				9	1,000,	000,000
Gold			± 5%	Tolerance	0.1	
Silver			±10%	Tolerance	0.01	
No Color			±20%	Tolerance	_	

WAVEMETER, CLASS "C," No. 1 (AUST.) (A.W.A. TYPE R.7647)

Frequency Coverage	Range 1 1470 - 2870 K.C.
	Range 2 2800 - 5520 K.C.
	Range 3 5280 - 10260 K.C.
H.T. Supply	Units H.T. Vibratory No. 1 (Aust.).
Alternative H.T. Supply	Batteries, dry, signal, 45 Volt, H.T. (Two connected in serie Wavemeter.)
L.T. Supply	Batteries, secondary, portable, 6 Volt, 25 Ampere-hour.
Valves	1 x 6J8G (in Wavemeter), 1 x 6J8G (boxed, spare).
Weight	Less Units H.T. Vibratory No. 1 (Aust.), 211 lbs.
Dimensions	151in. x 101in. x 9in. over-all.

WAVEMETERS, CLASS "C," No. 1 (AUST.) (COMPLETE STATIONS)

Vocab. No.	Designation		Essential for Work	Essential Spares	Total
	Section Z1.				
Z A 5624	Plugs, Single, No. 9	ento i			
	Receivers, headgear, double L.R (Anet)	****	1		1 (d)
Z A 6292	Satchels, Signals		1		1 (a)
	Units, H.T. Vibratory, No. 1 (Aust.)	****	1		1
	Volume W m m area		1		1 (b) (e)
7 4 4 050	Valves, W. T. Type 6J8G		- 1	1	2 (f)
Z A A 950	Vibrators, 6 Volt, V5211			1	1
	Wavemeters, Class "C," No. 1 (Aust.)		1		1
	Charts, correction		1		1 (1)
	Wireless Set, No. 101-Connectors, twin, N	Vo.	-		1 (b)
	11A		1		1
	Section Z2.				
Z A A 077	Batteries, Secy., port., 6 V., 25 A.H., Boxes		1	6	1
	Cells, Secy., port., 2 V., 25 A.H		3	V 40	3 (e)

- (a) Carried in Satchels, Signals.
- (b) Fitted in Wavemeter.
- (c) Fitted in box.
- (d) Fitted on Receiver headgear.
- (e) Pending availability of Units H.T. Vibratory No. 1 (Aust.), two Batteries, dry, signal, 45 Volt, H.T. (Section W2), will be issued in lieu.
- (f) Matched and marked with Serial No. of Wavemeter.

GENERAL DESCRIPTION

Wavemeter, Class "C," No. 1 (Aust.) is housed in a pressed aluminium case, and operates on the heterodyne principle, performing two prime functions:—

- (a) Emits an unmodulated Radio Frequency signal within the frequency ranges set out below, which can be received in any service type receiver placed at a distance not exceeding 6 feet from the Wavemeter.
- (b) Will receive an emitted signal from any service type transmitter, within the frequency ranges set out below. The received signal will be heard as a heterodyne note in the Receiver's Headgear L.R. (Aust.) of the Wavemeter, if the received signal differs from the present frequency of the Wavemeter, Class "C," No. 1 (Aust.) by any frequency in the audible range.

The effect known as "Zero beat" is used to determine the frequency to be read on the dial of the Wavemeter, Class "C," No. 1 (Aust.), and the accuracy of any such reading is dependent on the "correction" to be applied to any dial reading of the Wavemeter. This "correction" is obtained from the correction chart, which is contained in the accessories compartment of the instrument.

Frequency Ranges-

Range 1		 1470 - 2870 K.C.	2 K.C.	each	division	 4ha	dial
		2800 - 5520 K.C.	5 K.C.				
Range 3	170	 5280 - 10260 K.C.	10 K.C.				

NOTE.—Attention is drawn to the fact that Wavemeters, Class "C," No. 1 (Aust.), are precision instruments, made and calibrated to small tolerance limits, and should be treated as laboratory

Repairs and recalibration adjustments will normally be carried out by the following A.A.O.C.

Army Ordnance Workshops.
Advanced Ordnance Workshops.
L. of C. Area Ordnance Workshops.
Base Ordnance Workshops.

WORKING INSTRUCTIONS

1. Preliminary.

- (a) Unscrew the circular cover plate on the base of the case and see that a valve type 6J8G is plugged in its holder and that the valve cap connection is in place. Screw the cover back in place tightly.
- (b) Unfasten and open the wavemeter lid.

(c) Unfasten and lift the flap on the left-hand side of the top panel, and make sure that the 4-pin plug is inserted into the socket on the Units H.T. Vibratory No. 1 (Aust.).

- (d) Plug the L.T. lead in the socket above the L.T. "ON-OFF" switch and connect it to a 6-volt accumulator, the red and black leads being connected to the +ve and —ve terminals respectively of this battery.
- (e) Plug into the jack marked "Phones" a pair of L.R. headphones (Receivers, headgear, double, L.R., Aust.).
- (f) Set the L.T. Switch to "ON."

2. To Set the Wavemeter to a Given Frequency.

- (a) Adjust the range switch to Position 1, 2 or 3, according to the frequency required.
- (b) Inspect the correction chart and note whether at the given frequency, the curve lies above or below the datum line.
- (c) Observe the correction in kc/s.
- (d) If the curve at the given frequency lies above the datum line, subtract the correction in kc/s from the given frequency; if below, add to the given frequency.
- (e) Set the wavemeter scale to the value obtained in (d). The wavemeter frequency will now be the given frequency within 0.1 per cent.

3. To Set a Sender to a Given Frequency.

- (a) Place the wavemeter-about 6 feet from the sender.
- (b) Set the wavemeter to the given frequency according to Paragraph 2.
- (c) While listening in the wavemeter headphones, adjust the sender to the silent point of the heterodyne frequency.

NOTE.—If the wavemeter is placed too near to the sender, it will be found that the "silent space" of the heterodyne frequency becomes wide, and accurate setting of the sender to the given frequency difficult. A little experience will make this point clear.

For incoming signals into the Wavemeter, Class "C," No. 1 (Aust.), and curve above the datum line, ADD.

4. To Set a Receiver to a Given Frequency.

- (a) Set the wavemeter to the given frequency as described in Paragraph 2.
- (b) Place the wavemeter about 6 feet from the receiver.
- (c) Adjust the receiver for C.W. reception, and while listening in the receiver headphones, tune in the receiver to the silent point of the heterodyne frequency produced by the wavemeter.

NOTE.—Care must be taken that the receiver is tuned to the fundamental frequency of the wavemeter, and not to a harmonic.

For emitted signals from the Wavemeter, Class "C," No. 1 (Aust.), and curve above the datum line, SUBTRACT.

5. To Determine the Frequency of a Received Signal.

- (a) Tune in the signal accurately on the receiver.
- (b) While listening on the receiver, adjust the wavemeter (taking care to use its fundamental frequency) to the silent point of the heterodyne frequency.
- (c) Note the wavemeter reading, and correct this to true frequency by the use of the calibration chart.

6. Use of 90 Volt H.T. Battery in place of the H.T. Unit (Units H.T. Vibratory No. 1 (Aust.)).

If it is desired to use an H.T. battery in order to economise in L.T. current, or if the H.T. unit breaks down, the plug which normally connects to the Unit H.T. Vibratory No. 1 (Aust.) should be plugged into the adapter socket, which must first be removed from its clip in the lid of the wavemeter.

The two leads attached to this adapter are to be connected to the positive and negative terminals of the H.T. battery, comprising two batteries, dry, signal, 45 V., H.T., connected in series to give 90 volts.

of the White Tablet on the Front Panel.

There a number of frequencies are continually being used, it will be found convenient to write column of the white tablet on the front panel, these frequencies. This avoids loss of time and ted reference to the correction chart.

Varning.—Some knowledge is necessary as to the frequency to which a sender or receiver is ted, when checking by the wavemeter, to avoid the taking of a wavemeter reading on a harmonic sender, or the setting of the receiver to a harmonic of the wavemeter.

IAINTENANCE OF THE WAVEMETER.

The Correction Chart.

In accurate correction chart must be maintained. Each wavemeter is provided with a double chart, on one side of which the correction curve is drawn, prior to issue, for each of the three ency ranges.

The chart requires checking at intervals by comparing the wavemeter with a sub-standard, such a Calibrator Wavemeter, Class "C," and if the calibration has changed appreciably, a new series arrection curves should be drawn on the blank side of the chart.

This checking is necessary when the wavemeter is to be used in a temperature different from that which the original correction curves were drawn; since, although the temperature coefficient of tency is small, the calibration, and in particular that of Range 3, will vary with the temperatif the wavemeter is normally used at a temperature very different from that at which the nal coefficient of the correction curves are drawn, then a new set of correction curves should be drawn at the mean erature.

In drawing a new curve, the wavemeter readings should be taken every 100 kc/s for Range 1; kc/s for Range 2; and 400 kc/s for Range 3.

The differences between the scale plate readings and the sub-standard wavemeter frequencies should be plotted on the appropriate section of the blank chart.

If the frequency indicated by the wavemeter is higher than the true frequency given by the subdard wavemeter, then the difference is plotted above the datum line.

When all the required points for each range have been plotted, these points should be joined by ak line to complete the curves. The temperature at which the curves were taken should be entered ppropriate space at the head of the correction chart. If the differences in frequency from the true uencies as given by the sub-standard wavemeter are too great to be accommodated by the correctant, the trimmer condensers must be readjusted as below.

Resetting the Trimming Condensers.

If the calibration of the wavemeter has altered beyond the scope of the correction chart, the ming condensers, C3E (Range 3), C2E (Range 2), C1E (Range 1) and C1F (Range 1) should be sted. This should not be attempted unless a sub-standard is available for frequency comparison, his is available, resetting of the trimmer condensers should be carried out as follows:—

(i) Break the seals on the screws retaining the small rectangular cover plate at the back of the wavemeter. Removing this plate exposes three holes (marked 1, 2 and 3, which correspond to the three ranges of the wavemeter), located opposite the spindles of the trimming condensers.

Note.—Having removed the seals and the three screws holding the cover plate, some disculty may be experienced in removing the cover plate, as this may have adhered to the gasket. If this occurs, the cover plate can be easily removed by inserting a screwdriver in the groove of the plate, when it may be forced off.

Note.—Adjustment of the condensers may be made by means of a suitable box spanner or screwdriver. For further instructions, see Plate 4.

- (ii) Set the range switch to Range 1.
- (iii) Set the tuning dial to 2170 kc/s or thereabouts. This ensures that the wavemeter will be checked in a central position of the scale on all ranges.
- (iv) Check the calibration at this frequency and adjust the Range 1 trimming condenser until the frequency calibration is correct at this frequency.
- (v) Set the range switch to Range 2 and the frequency to 4160 kc/s or thereabouts, and adjust Range 2 trimming condenser until the frequency calibration is correct at this frequency.
- (vi) Set the range switch to Range 3 and the frequency to 7800 kc/s or thereabouts, and adjust Range 3 trimming condenser until the frequency calibration is correct at this frequency.

Having set the trimmers initially so that the frequency is correct at the centre of each range, the cors at the ends of each range and at four intermediate points should be observed and a rough cortion chart drawn.

In resetting the calibration, the aim of the operator should be to arrange that, over the greater part of the range, the correction applicable is as small as possible. At the same time, the maximum errors which occur at the ends of the ranges should not be too large to be accommodated by the correction chart.

If the requirements given in the preceding paragraph are met by this initial setting, then the final correction chart should be plotted as in (a) above—"The Correction Chart."

If, however, the requirements are not met, a slight readjustment of the trimmer condensers should be made before the final correction curve is drawn.

The trimming condensers should now be sealed with lacquer C100 (ZAA101).

The cover plate should then be placed together with its rubber gasket and resealed.

2. REPAIRS TO THE WAVEMETER.

Repairs to this instrument are only to be carried out by Ordnance Workshops. If the wavemeter is dismantled to remedy a fault or to correct the calibration, it must be checked against a substandard before being reissued.

(a) To Remove the Wavemeter from the Case.

- (i) Break the seals on the two screws on the top panel and remove the screws. Then remove the 10 other cheese-headed "ringed" screws on the top panel.
- (ii) Remove the 4-pin plug from the Unit H.T. Vibratory No. 1 (Aust.).
- (iii) Lift out the wavemeter, at the same time easing the lead through the hole in the partition.

NOTE.—Care should be taken, in withdrawing the wavemeter, that it does not foul the fixing bracket in the box.

(b) To Remove the Front Panel.

- (i) Remove the tuning handle and the range switch handle by unscrewing their respective grubscrews.
- (ii) Disconnect the lead from the telephone jack, which is connected to a stud on the sub-panel.
- (iii) Disconnect the lead from the L.T. switch, which is connected to a stud on the sub-panel.
- (iv) Disconnect the lead from the aerial, which is connected to a stud on the sub-panel.
- (v) Remove the four screws holding the jack face and name plate in position.
- (vi) Remove the L.T. switch escutcheon plate, which is held in position by two screws. These screws also fix the L.T. switch to the front panel.
- (vii) Remove the fourteen 4 B.A. screws in the front panel. Three screws at each corner hold the panel to brackets; the other two screws hold the panel to the round supporting pillars. The panel can then be removed.

(c) Assembly.

In the event of the apparatus being dismantled, the gears and associated apparatus should be assembled as follows:—

"Turn dial past '1470' to 'stop.' Lift spring-loaded idler assembly, after removing stop washer. Set coil brush to mark on end turn of coil. Holding dial at 'stop,' re-engage gears. Check and repeat if necessary."

3. UNITS, H.T., VIBRATORY, No. 1 (AUST.).

(a) To Remove the Unit from its Case.

Remove the two countersunk screws in the sides of the case and withdraw the unit. Any faulty component may now be replaced.

(b) To Change the Vibrator.

- (i) Before changing the vibrator, it should be ascertained that the 0.01 mfd. condenser in shunt with the secondary of the vibrator transformer (C2A in circuit diagram on side of unit) has not broken down. The condenser should be disconnected and checked. If this procedure is not carried out and a new vibrator is inserted, the vibrator may be seriously damaged. If the condenser has broken down, then it should be immediately replaced by a new one of the same voltage rating.
- (ii) The vibrator should be removed by withdrawing it from its socket. Care should be taken to see that the thick pins of the vibrator are inserted in the corresponding large holes in the socket; otherwise it will be impossible to replace the vibrator.

(c) Testing Components.

A continuity test may be applied to chokes where failure is suspected, and H.T. smoothing condensers tested with a megger, carefully observing their polarity.

CAUTION.-L.T. filter condenser (low voltage) must on no account be tested with a megger.

UNITS H. T. VIBRATORY No. 1 (AUST.) AND WAVEMETER CLASS "C" No. 1 (AUST.)

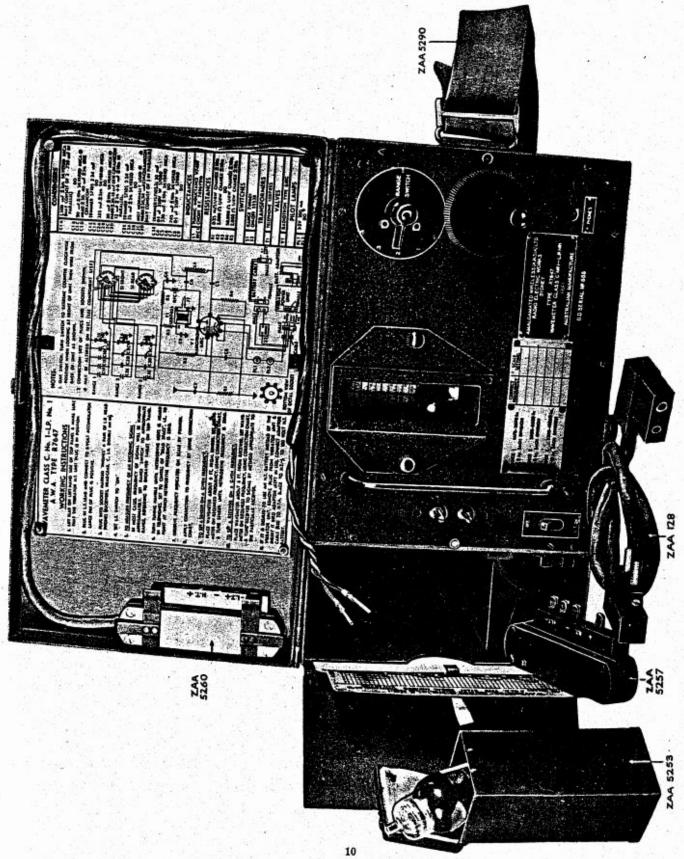
VOCAB.	DESIGNATION	SYMBOL	DESCRIPTION	CIATED WITH VALVE	TYPE, RATING, ETC.
	Wavemeter Class "C". No. 1. (Aust.) SECTION W.2.		Control 2		
W.B0067	Bulbs, 3.5 Volt P SECTION Z.1. Chokes, R.F.	PL1	Dial Lamp	Ī	3.5 Volts 0.3 Amps.
	R.F. No. 14	RFCI	3	Λ1	Multilayer, H.T.
ZAA 239 ZAA 239	Fixed, R.15	CIB	Tuned circuit splitting condenser (Range 1)	55	d. Silvered Mica plus or mi
040	Y.2	010	" " padding " "	V1	20mmfd " " " 10%
4		100 100 100 100 100 100 100 100 100 100	" " trimming " "	72	2-24mmid, Type S7105.
ZAA2708	Fixed, X.325	CSA	" " splitting " (Range 2)	55	325minfd. Silvered Mica plus or minus 2.5%
ZAA2708 ZAA2701	X.325	CSC	::	47	69" :: :: :: :: :: :: :: :: :: :: :: :: ::
	., Y.12	CSD	Consists of 1-12mmfd. in parallel with 1-6mmfd.	- I	Tvne. " "
ZAA 307 ZAA2700	Semi-fixed, No. 8 Fixed, Y.35	CSE	Tuned circuit trimming condenser (Range 2)	, VI	5. a plus or minus
ZAA2700	" Y.35	80 03 03 03		E	0/0/1 : " " : "
	Fixed, Y.12 }	CSD	. +	177	18mmfd. " 5% Erie Ceramicon Type. " 5%
ZAA 223	Fixed, P.1.C			F E	2-24nmfd. 0.1mmfd. 350 Volt Working, Type S7080.
ZAA2705	X.33	38	" " " " " " " " " " " " " " " " " " "	V1 V1	1000 voit Test plus or minus
N	" X.745 P.1.C	58	Antenna Series capacity	55	-
ZAA ZZ3	Inductances:	60	Amplifier Anode Supply Bypass	I.	:
ZAA 455	No. 31	1	Variable Oscillator Tuning Inductance	V1	Type V 7497.
	4 Watt, No. 3 or 4-	RI	Amplifier Grid Leak	M	Chanex or IRC Fixed metallized.
ZAA 088	2,000 ohms	R3	Screen Grid Decoup	55	:
ZAA 698 ZAA 688	00 ohms 00 ohms	R2	Resistor	SE	
ZAA7431 ZAA 744	Switches: 2 pole, 3 way wafers Single pole on-off	S2.	Range Switch Low Tension Supply Switch	Ι.λ	6D.
ZAA 824	Telephone K	Ę		Ľ	To couple from 6J8G to receivers headgear.
ZAA 913	W.T. 6J8G	VI	Amplifier and Oscillator Valve	I	Radiotron 6.18G Triode Pentode Mixer Valve

UNITS H.T. VIBRATORY, No. 1 (AUST.) AND WAVEMETER CLASS "C" No. 1 (AUST.) (B. CASE AND CHASSIS PARTS)

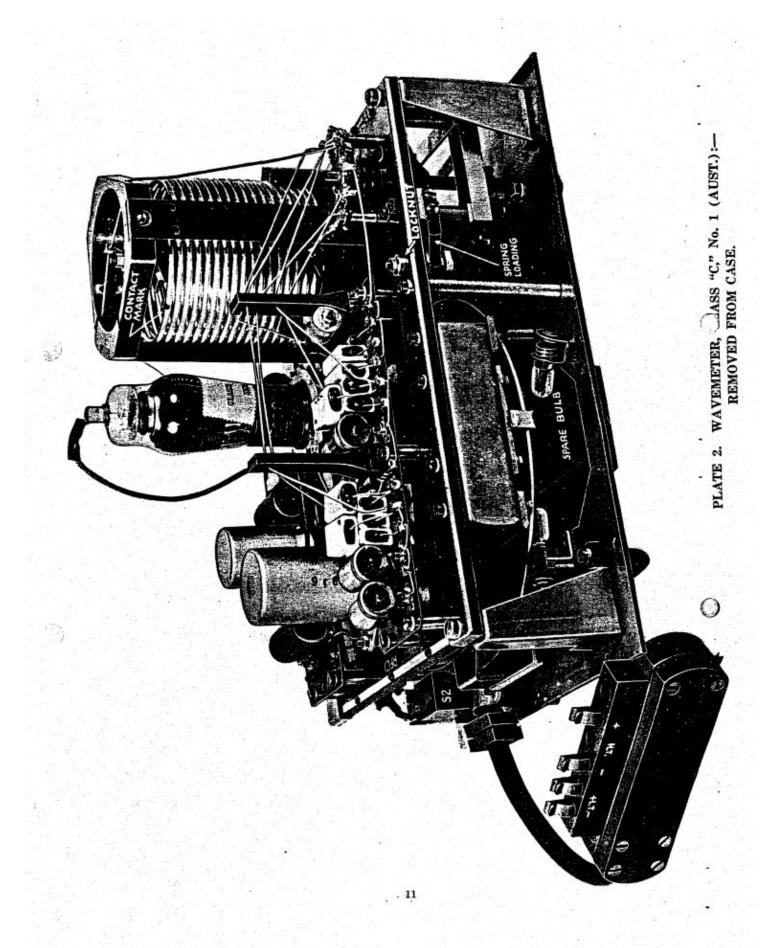
	DESIGNATION	SYMBOL	DESCRIPTION	ASSOCIATED WITH VALVE	TYPE, RATING, ETC.
	SECTION Z.1.				
	Units H.T., Vibratory, No. 1 (Aust.):			さればれば	
ZAA5294	Socket Assembly	1	The state of the s		
ZAA5295	Blocks	I	H.I. and L.I. output socket assembly	The State of the s	
ZAAbzyo	Contacts	1			
ZAA5281		1			
	Wavemeters, Class "C" No. 1. (Aust.):				
ZAA5250	Aerial Rods	I	Rod.		
ZAA5251	Bushes	ı	Hod		
ZAA5252	Collars	1	Aerial Kod Collars		
ZAA5201	Charts, correction	1			
ZAA5253	Cases, Spare Valve	1	Housed in Accessories Compartment		
ZAA5256	•	1	Connects to Socket Assembly of Thits		
ZAA5257	Connectors, 4 point	1	Um Withortow No. 1 (Auch)	1 111 111	
Z.4 A 5258		1	H.I. VIDERIOLY INO. I (AUSt.)		
D 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					
Apzin	sarpe	1	The Date of the Date	3	
ZAA5260	Connectors, adapter	1	٦,		
ZAA5261	Cursor Assemblies	1			
2.4 4 5 2 8 2	Lenses	1	Dial Assembly		
7 4 A 59.88	tension locating	١			
00000	Surana				
ZAA5264		1			
ZAA5265	Cursor wires sairw rosino	1	•		
ZAA5266	Brackets	!	_		
ZAA5267	Dial Plates	1	Dial Assembly		
7.4 45988	Collars	1	Dial Assembly		
7 4 4 5980	Discs. driving	-	Assembly		
7 1 1 20 20	College		Assembly		
01000			Accomble		
1120447		1			
Z1Z9FF7	Forms, canbrations	1			
	Gearing Inductance;				
7.4 4 5979	Driving	1			
7 4 4 5974		-			
1001	of contrast of con		Tood with Connectors & noint		
0120447	: : : :	1	Accompliant Connections, a point		
Z4402/0	Holders, I not	1	Dia Assembly		
ZAA5277	Insulators	1	Dial Assembly, Lamps		
	Knob:				
7 4 4 5978	ductance	1			
7 4 4 5070					
8000	Wanter All		D		
ZAA5280	washers, reit	1	For use with Knobs		
ZAA5281	Panels, front	1			
ZAA 5282	Collars	1			
7 4 4 5989	inductance	1			
10001					
7440284	Dusmings, range switch	1			
ZAA5285	Sockets, 2 pin, male	1	L.T. Input to Wavemeter	× -	
ZA A 5286	:	1			
74 4 5907					
10201	valve	1			
ZAA5288	Springs, Jockey, Assembly	1			

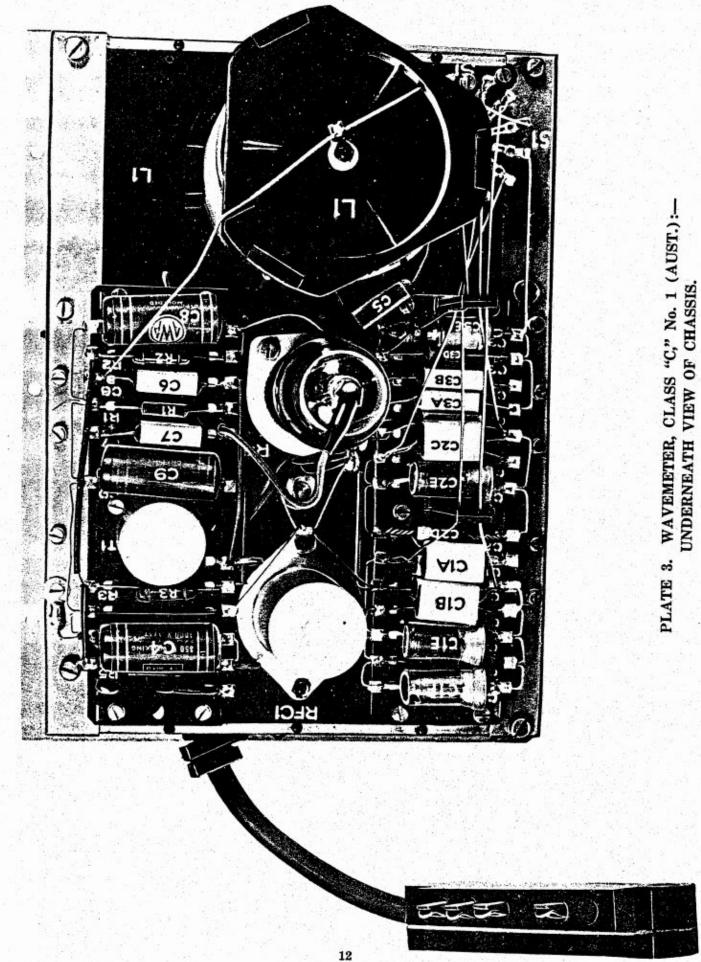
VOCAB.	DESIGNATION	CIRCUIT	DESCRIPTION	ASSOCIATED TYPE, RATING, ETC.
ZAA5290 ZAA5291 ZAA5292 ZAA5293 ZAA 128 ZAA 129 ZAA 139	Straps, carrying Thermometers Trimmers, tool adjusting Wax, Sealing Sticks Wireless Set No. 101: Catches, ball Connectors, twin No. 11A Cable Plug Assembly Sooket Assembly	1111-11111	Wavemeter Class "C" No. 1 (Aust.) Accessories Compartment, Lid	
ZAA 144 ZAA 147 ZAA 063	::::	1111		
ZAA5153	Apparatus, Loudspeaking (Aust.) No. 2—Sockets, Vibrator			
VOCAB.	DESIGNATION	CIRCUIT	DESCRIPTION	TYPE, RATING, BFC.
	Unit H.T. Vibratory No. 1. (Aust.)		SECTION Z.1.	
ZAA5158 ZAA5157 ZAA5156	Chokes: R.F. No. 16 R.F. No. 15 A.F. No. 6	LIA L2A L3A	Low Tension R.F. Choke High Tension R.F. Choke	Type QP, No. 3149/0 Single Layer L.T. Type QP, No. 3036/0 Mulitlayer H.T.
ZAA 269	Condensers:	CIA	Vibrator Primary R.F. Bypass	/Working
ZAA 243 ZAA 243 ZAA 243 ZAA 242 ZAA 246	Fixed Q1H Fixed Q1H Fixed Q1H Fixed Q1H Fixed P5F	C2B C2B C3C C3A C3A C3A	Vibrator Secondary R.F. Bypass Vibrator Secondary R.F. Bypass Vibrator Secondary R.F. Bypass Vibrator Primary R.F. Bypass Vibrator Primary R.F. Bypass	Olmmfd. 700 V. Working. Type S.7080. Olmmfd. 700 V. Working. Type S.7080. Olmmfd. 700 V. Working. Type S.7080. O.5mmfd. 350 V. Working. Type S.7080. Smmfd. 525 V. Working. Ducon EG.1080.
ZAA 684 ZAA 669	Resistors: 4-Watt No. 3 or 4, 350 ohms I-Watt No. 3 or 4, 30,000 ohms	R1A R2A	Primary Suppressor Resistor	
ZAA 831	Transformers:	TIA	Vibrator Power Converter	6 V/Primary to work with V5211 Vibrator.
040 1 14	Vibrators:			

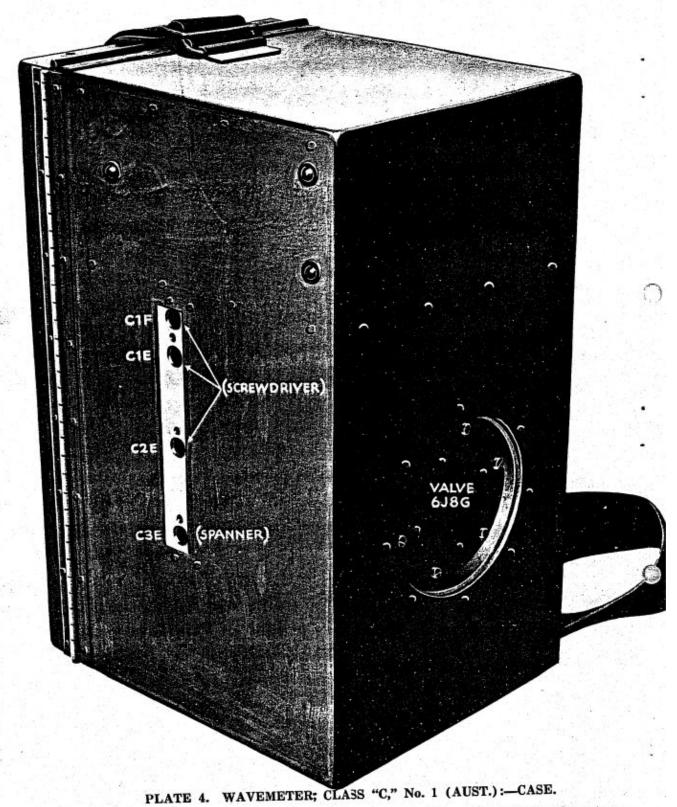
TYPE, RATING, ETC.		TYPE, RATING, ETC.		QP, No. 3149/0 Single Layer L.T. QP, No. 3036/0 Mulitlayer H.T.	750	d. 700 V Working. Type S.7080. d. 700 V Working. Type S.7080. d. 700 V Working. Type S.7080. d. 350 V Working. Type S.7080. 525 V Working. Ducon EG.1080.		6 V/Primary to work with V5211 Vibrator.	
ASSOCIATED WITH VALVE				Type Q	300mmfd.	01mmfd. 01mmfd. 0.5mmfd. 0.5mmfd.	Chanex	6 V/Prin	
DESCRIPTION	Wavemeter Class "C" No. 1 (Aust.) Accessories Compartment, Lid	DESCRIPTION	SECTION Z.1.	Low Tension R.F. Choke High Tension R.F. Choke High Tension Filter Choke	Vibrator Primary R.F. Bypass	Vibrator Secondary R.F. Bypass Vibrator Secondary R.F. Bypass Vibrator Secondary R.F. Bypass Vibrator Primary R.F. Bypass Vibrator Supply Filter Condenser	Primary Suppressor Resistor Vibrator Supply Load Resistor	Vibrator Power Converter	
SYMBOL	1111-11111111	СПССИТ		LIA L2A L3A	CIA	C28 C28 C3A C4A	R1A R2A	TIA	
	Straps, carrying Thermometers. Trimmers, tool adjusting Wax, Sealing Sticks Wireless Set No. 101: Catches, ball Connectors, twin No. 11A Plug Assembly Socket Assembly Connectors, 6 point Contacts Plug contacts Grommets	(Aust.) No. 2—	Unit H.T. Vibratory No. 1. (Aust.)	Chokes: R.F. No. 16 R.F. No. 15 A.F. No. 6	Condensers:	Fixed Q1H Fixed Q1H Fixed Q1H Fixed Q1H Fixed P5F Fixed 8C	Resistors: 4-Watt No. 3 or 4, 350 ohms I-Watt No. 3 or 4, 30,000 ohms	Transformers:	Wheeten
	ZAA5290 ZAA5291 ZAA5292 ZAA5293 ZAA 128 ZAA 129 ZAA 139 ZAA 144 ZAA 144 ZAA 144	ZAA5153 VOCAB.		ZAA5158 ZAA5157 ZAA5156	ZAA 209	ZAA 243 ZAA 243 ZAA 243 ZAA 242 ZAA 246	ZAA 684 ZAA 669	ZAA 831	



PLAT PLATE 1. WAVEMETER. CLASS "C." No. 1 (AUST.):-FRONT VIEW.







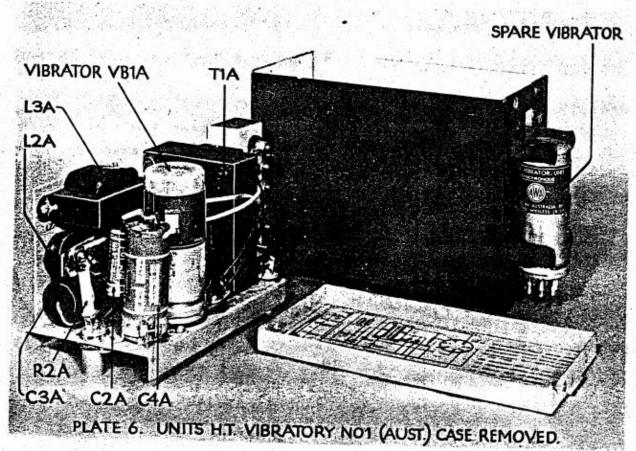
Condensers C1F - C1E - C2E should be adjusted with a suitable screwdriver, for all Wavemeters, Class "C," No. 1 (Aust.), excluding the following serial numbers:—1070, 1080, 1083, 1093, 1132 and all subsequent numbers.

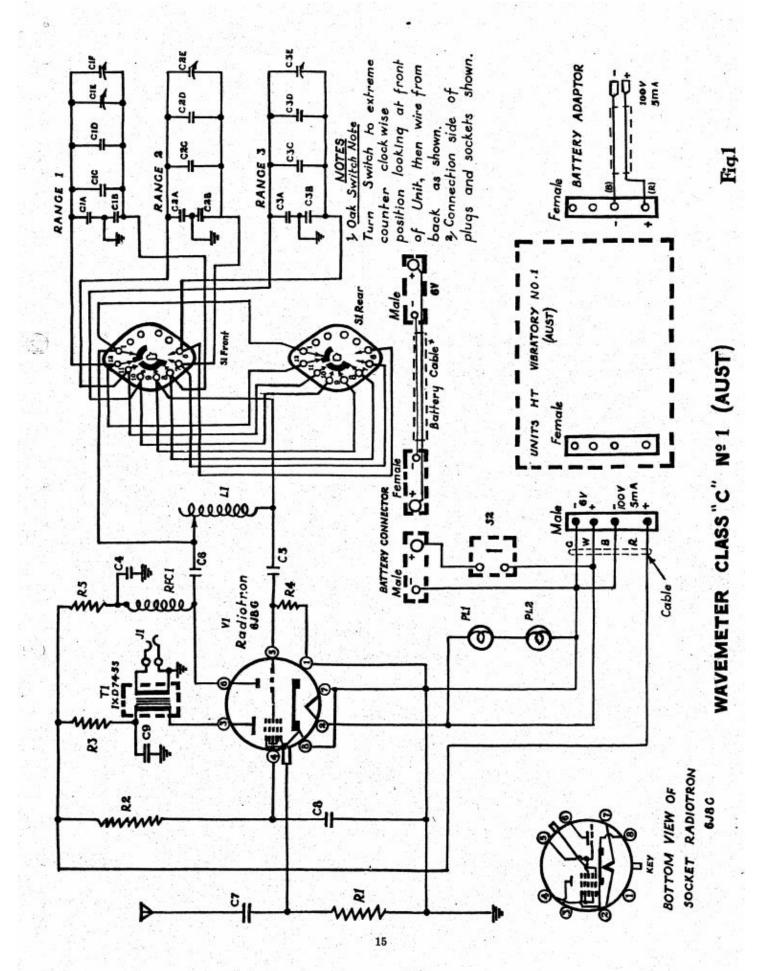
All Wavemeters, Class "C," No. 1 (Aust.) with serial numbers listed above will have condensers C1F-C1E-C2E adjusted by means of a suitable box spanner.

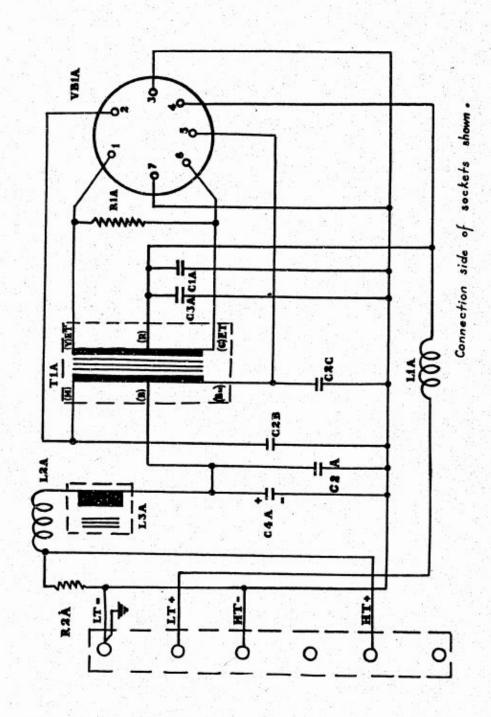
Condenser C3E will in all cases require adjustment with a suitable box spanner.

PLATE 5. UNITS H.T. VIBRATORY NO.1 (AUST.)









SCHEMATIC DIAGRAM UNIT H.T. VIBRATORY Nº I (AUST)