E-M-I SERVICE LTD.

"HIS MASTER'S VOICE" 1400 MARCONIPHONE 872

MANUAL SERVICE

5-valve Mechanical Push-Button Battery Superhet

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SPECIFICATION

PHYSICAL.

MODEL 1400.

MODEL 872.

Height $14\frac{1}{4}$ inches. Width $23\frac{1}{4}$,, Depth II ,,

Height $14\frac{1}{8}$ inches. Width $23\frac{1}{8}$,, Depth $10\frac{3}{4}$,,

Net weight (both models), 29 lb. Gross weight (both models), 39 lb. Weight of batteries (both models), 16 lb.

WAVELENGTH RANGE.

 Short Waves
 ...
 16 to
 50 metres.

 Medium Waves
 ...
 195 to
 580 ,,

 Long Waves
 ...
 950 to 2,000 ,,

SPEECH OUTPUT.

Approximately 0.8 watt maximum.

BATTERIES.

L.T.—Exide type CZG4-C 2v.40AH. H.T.—Marconiphone Cat. No. B498, 120 volt.

CONSUMPTION.

L.T.—1.05 amp. H.T.—9.0 millamps 6.0 ,, (Economy) average.

VALVES.

Marconi X23 or X24 ... Frequency changer.

,, Z21 ... I.F. amplifier.

,, HD23 ... Second detector, A.V.C. and L.F. amplifier.

,, KT2 ... Push pull output valves.

Pilot Lamp 2.0 v. 0.1A. Part No. 22704B.

LOUDSPEAKER.

No. 24760D

This sensitive moving coil loudspeaker is fitted with a new type high flux permanent magnet.

D.C. resistance of speech coil, 4 ohms.

Impedance at 800 cycles, 5 ohms.

EXTRA LOUDSPEAKER.

Sockets are provided for the connexion of an extra loudspeaker. To disconnect the internal loudspeaker the yellow plug should be removed from the right-hand socket on the extra loudspeaker panel. Adjust extra speaker for an impedance of 5 ohms.

CIRCUIT DESCRIPTION

AERIAL COUPLING.

Two aerial sockets are supplied, one for use when a powerful station is in the near vicinity of the receiver. These sockets feed through image rejectors to inductive coupling coils (L4, L5) for medium and long waves. On short waves direct capacity coupling (C4) is employed. A single high magnification preselector circuit in which both the medium and long wave coils are iron cored is employed across the grid of the frequency changer, VI.

FREQUENCY CHANGER.

The triode-hexode frequency changer ensures consistent performance at all wavelengths. The hexode portion is A.V.C. controlled, whilst the triode portion generates oscillation in conjunction with the tapped coils L8, L11, L9 and L10 in which capacitative and inductive coupling is employed.

I.F. AMPLIFIER.

An iron cored I.F. transformer feeds the Z21, I.F. amplifier (465 kc.) and a second I.F. transformer feeds the second detector.

SECOND DETECTOR AND A.V.C.

The A.V.C. diode of the HD23 (V3) is fed from the anode of V2 via C28, and has a tapped load resistance R21, R29. Delay voltage and initial bias for V1 and V2 is obtained via R27 from a tapping on the bias potentiometer R23, R24. The signal diode has a load resistance R18, across which the volume control (VR1) is connected. The components C24, R19, C25, C32 constitute a filter network. The grid of the L.F. amplifier section of the valve is connected to the slider of the volume control.

OUTPUT STAGE.

A resistance capacity coupled transformer TI with centre tapped secondary feeds the push pull output valves.

In series with the main H.T. feed is a resistance, R28, with the economy switch connected across it. The effect of this resistance is to reduce the effective H.T. voltage, and bring about a marked economy in battery consumption without seriously reducing performance.

PUSH-BUTTON MECHANISM

The instructions for changing push-button stations given in the Instruction Card are reprinted below.

- 1. Decide what stations you wish to alter. A perforated sheet of station names is supplied with the instrument for special requirements.
- 2. Any newly selected station must take the place of an existing station. You must decide, therefore, which station you no longer require to be tuned automatically.
- 3 Manually tune the receiver exactly to the station required, and decide which button is to be used.
- 4. Unscrew, by one or two turns, the button to be changed.
- 5. With the cap unscrewed, press in fully the button, and keeping the button pressed in, tighten the button sufficiently for it to hold. Allow the button to return to its normal position and finally tighten.
- 6. Check the setting of the button, by comparing the reception on automatic and manual tuning.

The essential points for successful adjustment are that the knobs shall be very tight, and that pressure to one side or other of the knobs is avoided.

Lubricate all frictional points (except the edge of the friction drive disc) with a good lubricant such as Mobilgrease No. 2. This applies especially to the front bearing of the tuning spindle.

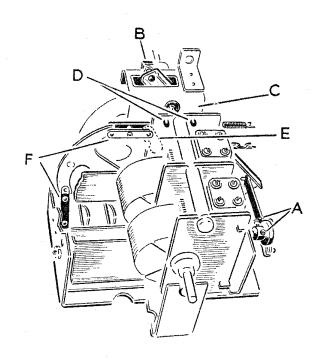
In the event of the mechanism jamming it may be due to failure of the bar to release the friction drive. This effect can be caused by grub screws (A) being loose or adjustment (B) incorrectly set.

Alternatively, the friction disc may not be located between the driving surfaces of the spindle. Reposition bracket (C) secured by screws (D).

If a button knob will not lock it may be due to a stripped thread. Replace the knob and thread.

If tuning (by button) is erratic it may be due to single grub screw securing lever arm (E) to gang condenser spindle being loose.

If spring links (F) become detached it is useless to replace the same links. New links must be fitted or the entire mechanism replaced.



PRELIMINARY TESTS

- I. Battery Voltage.—The accumulator must read at least 1.9 volts on load, and the H.T. battery should be replaced if its total voltage on load is less than 60 volts. Examine all battery leads and if necessary clean or replace plugs or tags to ensure good contact. This applies especially to L.T. connexions, as bad contact at the accumulator terminals may cause unsatisfactory short wave performance. Apply vaseline to the accumulator tags and terminals to prevent corrosion.
- 2. L.F. Test.—Switch on, turn volume control fully up and remove the metal cap from the HD23 valve. Touch the top terminal of the valve with a wetted finger. This should produce a definite sound from the loudspeaker. If no sound is heard try replacing

- V3 (HD23) or V4 or V5 (KT2) or examine loudspeaker leads or speech coil for discontinuity; see Continuity Checks page 8.
- 3. H.F. Test.—Contact aerial lead on to fixed vanes of VCI. Medium wave results (but with whistles and lack of selectivity) should be obtained. The test eliminates the aerial coupling and image rejector circuits.
- **4. Oscillator Test.**—Connect a milliammeter in the H.T. + lead and note readings with L8, L11, L9, L10, first in circuit, and then shorted out.

This test shows whether the oscillator is functioning correctly. When the coils are shorted the current should rise, due to the increased oscillator anode current.

H.F. TESTS AND ADJUSTMENTS.

Do not attempt to make any adjustment to the circuits of this receiver unless you have adequate equipment as outlined below. All necessary oscillators, trimming, tools etc., essential for the correct adjustment of H.F. and I.F. circuits can be obtained from:—

E.M.I Service Limited.

The use of a tuning unit (comprising all R.F. coils, trimmers and wavechange switch) and the provision of fully adjustable inductances considerably simplifies ganging work on this receiver. For instance, in the event of a seriously faulty wave-change switch or coil, the entire unit can be replaced very easily (see below) and if the M.W. and L.W. inductance trimming has already been done on a standard chassis, only a slight touch up will be needed to the trimmer condensers to bring the receiver perfectly into alignment.

In general, the iron cored inductances are very stable, and unless repair work or replacement has been carried out on the coil itself it is rarely necessary to re-adjust these inductances when ganging. The usual symptom of mismatched inductances is low sensitivity at the

high end of the wave-scale. In the event of it being thought necessary to adjust inductances it is important first to remove the shield covering the R.F. unit, and scrape or melt the wax away from the thread on the L.W. coil, and from the sides of the M.W. coil. Replace the shield before ganging.

REMOVAL OF COIL UNIT.

- I. Remove cover shield.
- 2. Unsolder eight leads connecting the unit to the rest of the receiver.
- 3. Slacken switch fixing nut, and remove two screws securing switch bracket. The unit may now be lifted out.

GANGING

Always follow any adjustment to the I.F. trimmers with complete R.F. alignment (M.W., L.W., S.W.) but where work has been done or sensitivity is low on a specific band, it is necessary only to regang this band. For this the following are required. screened oscillator 50 to 2,000 metres (6 megacycles to 150 kilocycles) with an attenuator, an output meter or 0-2 A.C. voltmeter, a trimming screwdriver with a minimum of metal in the blade, and if the inductance trimming on M.W. requires to be done a special tool for this purpose. (Stock No. Q2527). In carrying out ganging operations the input to the receiver from the oscillator must be kept low and progressively reduced as the circuits are brought into line so that the output meter reading does not exceed 50 mW or 0.5 volt with the receiver volume control at maximum. The E.M.I. Service output meter should be connected between the anodes of V4 and V5 (KT2) and chassis, but if the A.C. voltmeter is used it must be connected across the L.S. speech coil.

I.F. GANGING.

Switch receiver to L.W., battery economiser to maximum H.T., set gang condenser to maximum capacity, volume control to maximum. Tune oscillator to 465 kc. (645·2 metres) and connect output leads to fixed vane tag VCI (via a 0·1 mfd. condenser) and to chassis, leaving grid lead connected to VI.

- 1. Switch on oscillator.
- 2. Adjust TCII, TCI2, TCI3 and TCI4 in that order for maximum output.
- 3. Check adjustment in the same order.

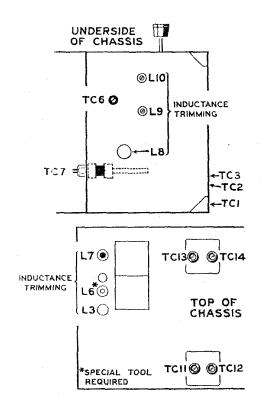
MEDIUM WAVES.

Set receiver to M.W. and volume to maximum. Connect oscillator to normal aerial and earth sockets. Important Note.—It is essential that before ganging, the position of the pointer in relation to the wavescale is checked. The pointer must be adjusted to be horizontal when the gang condenser is at maximum. All ganging is now done to settings on the scale itself, and the gang condenser must not be rocked, or the position of the pointer altered in any way. The use of this method produces very good accuracy of calibration.

WARNING—Owing to the flexible nature of the condenser mounting the indication of wavelength is affected if the chassis is turned on its side. For this reason it is important that the chassis should be horizontal during ganging. Some arrangement must be made to support it above the bench so that the trimmers on the underside are accessible.

- 1. Set receiver (by spot on scale) and oscillator to 225 metres (1333·3 kc.).
- 2. Adjust TC7 and TC2 for maximum output.
- 3. Set receiver (by spot on scale) and oscillator to 530 metres (566 kc.).
- 4. Adjust inductance trimmers of L9 and L6 (if necessary) for maximum output.

The adjustment of L6 is done by rotating the upper core by means of the special tool (obtainable from E.M.I. Service, Stock No. Q 2527), which consists of a pointed rod of insulating material with a rubber bush. It should be inserted through the hole in the chassis, the point located in the hole in the paxolin coil mounting strip, and the rubber bush bearing on the core. The core may now be rotated by turning the tool.



- 5. Repeat operations 1 to 4.
- 6. Repeat operations I and 2.

LONG WAVES.

Switch receiver to L.W., volume control as for M.W.

- 1. Set receiver (by scale) and oscillator to 1,100 metres $(272 \cdot 7 \text{ kc.})$.
- 2. Adjust TC6 and TC1 for maximum output.
- 3. Set receiver (by scale) and oscillator to 1,900 metres (158 kc.).
- 4. Adjust inductance trimmers of L10 and L7 (if necessary) for maximum output.
- 5. Repeat operations I to 4.
- 6. Set oscillator and receiver (by scale) to 1,400 metres (214·3 kc.).
- 7. Readjust TCI for maximum output.

SHORT WAVES.

Switch receiver to S.W.

Important.—For short wave ganging the oscillator output should preferably be terminated with a 100 ohm non-inductive resistance in parallel, and a 400 ohm non-inductive resistance in series with the "hot" lead.

- 1. Set receiver (by scale) and oscillator to 50 metres (6 megacycles).
- 2. Adjust loop in L8 to receive signal, and loop in L3 for maximum output. These loops are adjusted through a hole in the shield. A strip of insulating material with a slot in it should be used to move the wire up or down.
- 3. Set receiver (by scale) and oscillator to 18 metres (16.6 Mc.) and adjust TC3 for maximum output.

Do not alter the position of the pointer after ganging.

VALVE TABLE

Values ± 20 per cent.

(Voltage, Current and Resistance Tests.)

Voltage and current readings taken with an H.T. battery reading 115 volts on load (between H.T.+ and chassis) economy switch in max. H.T. position, aerial disconnected, receiver switched to MW and tuned to point of no reception. Resistance readings (in ohms) taken with batteries disconnected and valves and pilot lamp removed.

 $S=short\ circuit.$ $\infty=open\ circuit.$ Socket numbers are given in brackets.

Valve	es.			VI (X23)	V2 (Z2I)	V3 (HD23)	V4 (KT2)	V5 (KT2)
Anode— Volts to chassis Current (mA) Resistance to chassis	•••	•••		Mxr. Osc. 114 50 0·7 1·3 (7)ω (1)ω	114 1.0 (Cap)∞	√. 55 0·6 (1)∞	114 0.9 (1)\omega	114 0.9 (1)∞
Screen— Volts to chassis Current (mA) Resistance to chassis	•••	•••	•••	58 I ⋅ 2 (3)∞	90 0·7 (I)∞		Depends on 0 · 25 (5)∞	valve letter. 0·25 (5)∞
Bias— Voltage	•••		•••	2.0*	0.2*		6.0	6.0
Control grid—Resistand	ce to ch	assis	• • •	(Cap) 3·6 megohms	(2) 0·35 megohm	(2) 25 ohms to 2 megohms (VRI)	(2) 233,000 ohms	(2) 233,000 ohm
Filament— Volts Current (amps) Resistance to chassis	•••	 (3) c (4)	 or (5)	2 0·3 S &	2 0·1 S ∞	2 0·15 S ∞	2 0·2 S ∞	2 0·2 S ∞

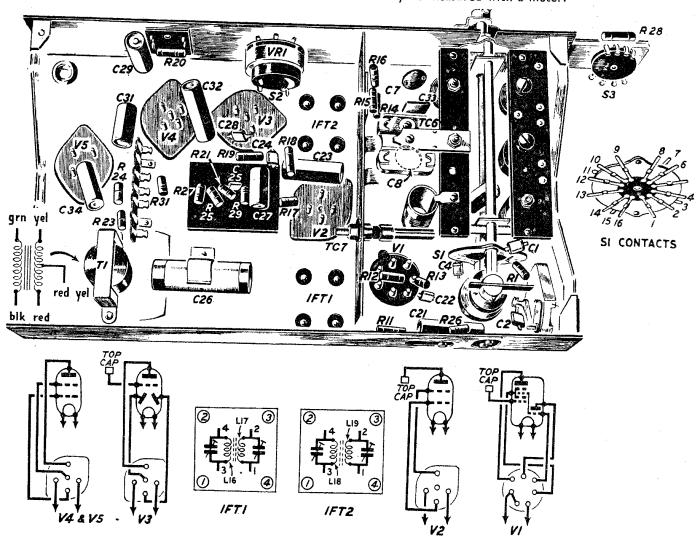
H.T. consumption at H.T. + (red) lead ,, ,, Yellow lead

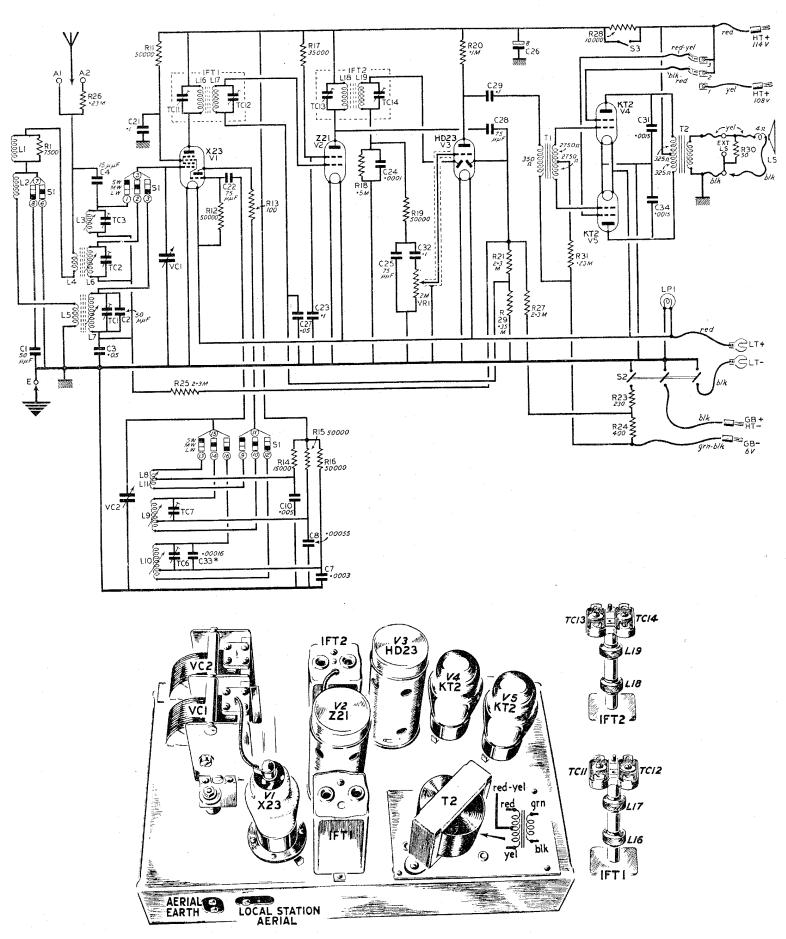
7.3 mA Total H.T. consumption 7.8 mA approx.

0.5 mA Note.—This value cannot be read at either the black (HT—) or green-black (GB—) lead.

L.T. consumption, I.05A.

^{*} Owing to the high resistances in circuit these values cannot satisfactorily be measured with a meter.

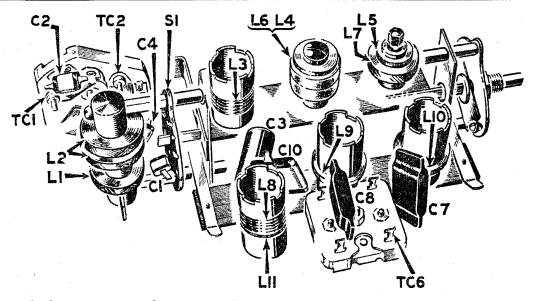




CONTINUITY CHECKS

Resistance values \pm 20 per cent. Remove valves and pilot lamp, and switch economy switch to max. H.T.

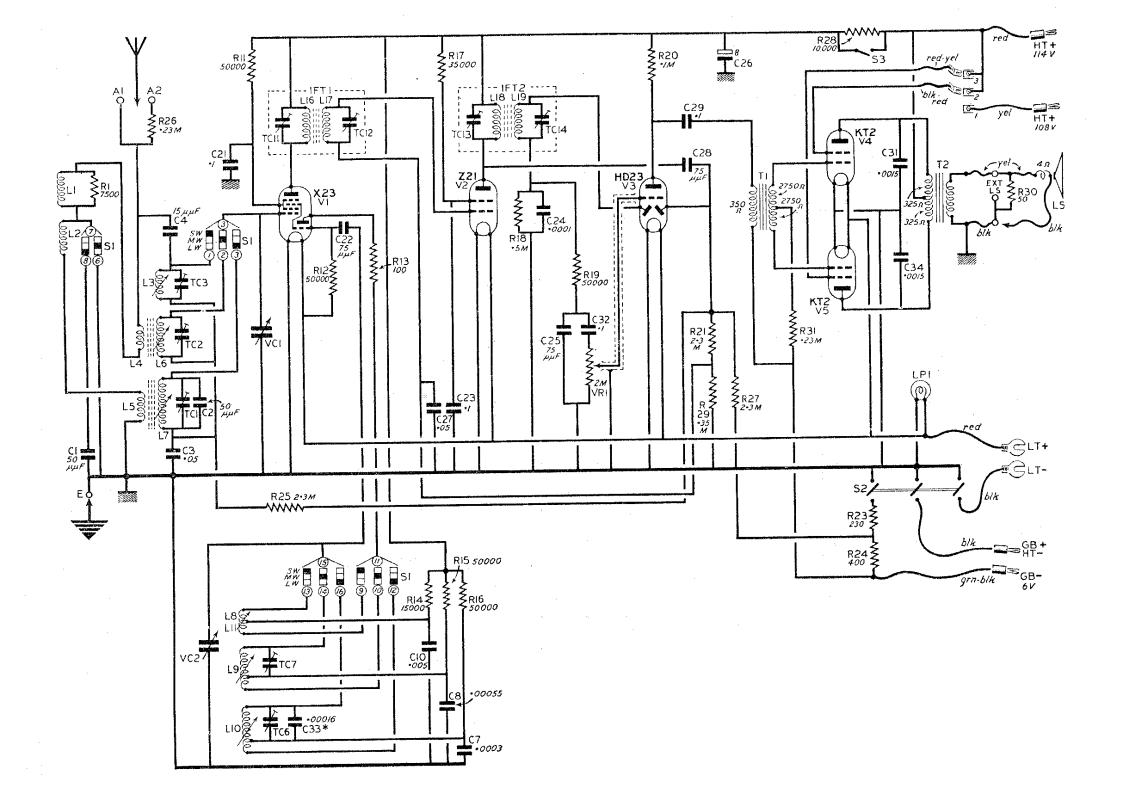
Component.	Measured.	Switch.	Resistance.
L1, L2, L4, L5, R1	Al and earth sockets	MW SW	(L1 and L4) 10 ohms. (L1, L2, L4, L5) 44 ohms. L1, 9·5 ohms. L2, 33 ohms. L4, 0·4 ohms. L5, 1·6 ohms.
L3, L6, L7	Fixed vanes VCI and C3	SW MW LW	0·1 ohm (L3). 2·0 ohms (L6). 10·0 ohms (L7).
L8, L11	. Contacts 15 and 11, S1	SW	I·0 ohm (LII 0·9 ohm).
L9	. Contacts 15 and 11, S1	MW	2·8 ohms.
L10	. Contacts 15 and 11, S1	LW	3.6 ohms.
L16	. Anode VI (X23) and red H.T. + lead	_	4.0 ohms.
L17, R29	. Grid V2 (Z21) and chassis		0·35 megohm. (L17, 4·0 ohms).
L18	. Anode V2 and red H.T. + lead	·	4·0 ohms.
L19, R18	. Diode V3 (HD23) and chassis	. —	0·5 megohm. (L15, 4·0 ohms).
R12	. Oscillator grid VI and L.T. + lead		50,000 ohms.
VRI	. Control grid V3 and chassis	Francis	10 ohms to 2 megohms.
L3, R25	. Grid VI and AVC diode V3	SW	2·3 megohms.
R21, R29, R27, R23	. AVC diode V3 and chassis	ON	1-24 megohms.
For T1, T2, L.S. Speech coil	. See circuit diagram	·	



Order spare parts from :—
E.M.I. SERVICE, LTD.,
SHERATON WORKS,
HAYES, MIDDLESEX.

Telephone: Southall 2468. Telegraphic Address: Service, Hayes, Middlesex.

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E·M·I SERVICE LTD.

"HIS MASTERS VOICE" 1400 872 MARCONIPHONE

LIST A R T A R E P

5 Valve Battery Superhet.

RADIO UNIT PARTS

Part No.			De	escrip	tion	•				ī	Parts er Inst.	Finish.	Retail List Price.	Per
		(For	com	plete	ra	dio ui	nit, se	ee pa	ges 6	and	7.)			
		(. 0.	••••	F			Í	•	•		·		£ s. d.	
20650M	H.F. Unit										l	-	1 17 6	Each.
2063011 20670A	LI and L2 aerial	coils	• • • • • • • • • • • • • • • • • • • •		•••	•••					1		0 1 9	,,
	Panel with four				•••					• • •	1		0 0 2	,,
27085A		_		•••		•••	•••			•••	4		0 0 1	Doz.
10400 10710	lag	•••								٢	2		0 0 2	,,
	Screw Washer, SP se	curing L1	, L2 an	d tag	pane	to swi	tcn	•••	•••	1	2		0 0 2	,,
3166 20660G	Grid coils panel	assembly	,							•••	ľ	. •	086	Each
	L3—S.W. g			•••	•••			•••			I		0 1 0	,,
20657H 20652	Clip)	110 0011	•••	•••	•••					ſ	ı		0 0 6	Doz.
20652 20653	Bush >se	curing L3	to pai	nel	•••	•••			•••	₹	1		0 0 7	,,
	Nut	caring L	, со ра.		***						1	-	0 0 3	**
20654 20666D	L4 and L6-	_M.W. cc	ounling	and ø	rid c	oils					1		0 1 0	Each
	Coil stem		, up6			•••	•••		•••		ı		007	,,
20662	Screw secu	ring coil	stem t	o pane	el		•••			• • •	I		0 0 7	Doz
20664	Core						•••				2		006	Each
20672	Insulating v				two (ores)				• • •	1	-	0 0 2	Doz
20667	Felt washe		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,				(I		0 0 4½	,,
20659	Insulating	washer	securi	no coi	ls and	cores	to stem	٠		₹	1		0 0 1	,,
20668	Screw	wasiici	3000111							l	i	_	1 0 0	Each
20669	L5 and L7-	I W co	unling	and gi	rid co	oils		•••	•••		i		0 I 9	,,
20661C	Coil stem	<u>L.</u> ++. CO	upinig	ua 6.						1	l		0 0 2	11
20729		securi	na 15 a	nd 17					•••	₹	1		100	,,
20727	Spacer Screw	Securi	116 -5 4	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						- 1	1		001	,,
20728	Core screv	v for L5	and 17						•••	•••	I		0 0 6	,,
20542	Panel (for	arid coils	with	six tas		•••	•••		•••		I		0 0 3	,,
20660A	Tag		•••		•••	•••	•••		•••	•••	6		0 0 1	Doz
10400	Oscillator coils					•••	•••	•••	•••	•••	1		058	Each
20650L	L8 and L11	SW c	scillate	r and	reac		I. with	mount	ing bra	icket	i		0 1 6	,,
20657T	LO AND LI	3.**. c	/SCIII acc				.,			ſ	1		0 0 4	Doz
11228	Screw Washer, S	securi ج م	ng L8 a	and Li	I to	panel	•••	•••	•••	1	ı		0 0 2	,,
3165	L9—M.W.	oscillato	r coil		•••						1	Marries and	0 1 0	Eacl
20657C	Bracket fo			•••	•••	•••	•••				1		0 0 1	,,
20673	Clip)	1 1 00	•••	•••	•••					ſ	1		0 0 6	Doz
20652	Bush >s	ecuring L	9 and I	racke	t to	panel				₹	1	*********	007	,,
20653	Nut	ccurring L	, and t	.,			***				ı		0 0 3	,,
20654	Adjusting	ccreW an	d dier f	for L9							1		001	Eac
20655B	LIO-L.W	Occillate	o diaci	J/	•••			•••	•••	•••	1		0 1 0	,,
20657B		. Oscillate), CON	•••	•••					ſ	I		0 0 6	Do
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20655B	Panel (for	occillato	r coile)		• • • • •	•••	• •	•••	•••	•••	1		$0 \ 0 \ 4\frac{1}{2}$,,
20650A	ranel (for	Oscinato	nel to s	witch		•••		•••	•••	•••	2		0 0 6	Do
8777	Screw, PK, sec	utting har	with	nut	•••	•••	•••	•••			1		0 4 8	Eac
20288A	SI—Wave ran TCI, TC2 and	AC 3 AL-	i, willi	11U L 0-50 <i>t 1</i>			•••		•••		İ		0 2 0	,,
23922D				C-2Cr (301		• • • • • • • • • • • • • • • • • • • •	•••	•	2		0 0 3	Doz
24027	Adjusting	screw	•••	•••	•••	***	•••	•••	•••	•••	_		-	rch, l

Part No.				Descrip	tion.						erts Inst.	Finish.	Retail List Price.	Per
19050	Screw	ì .								c	1	1475	£ s. d.	
3166	Washer, SI	p > securing	TCI	and TC2	2 to b	racket o	n swite	ch		{	!	WN	0 0 4	Doz.
26350BG	TC6-Pre-	set condens	er	•••	•••	•••	• • •			Ĺ	1	branching	0 0 2	٠٠٠.
25067	Adjust	ting screw			•••	•••	•••	•••	•••	•••	i		0 3 0 0 7	Each.
1485	Washe	er	• • •	• •••	•••		•••	•••	•••	•••	i		0 0 7	Doz.
10710	Screw)								1	i	WN	0 0 2	**
3166	Washer SP	, $ angle$ securing	TC6	to brack	et on	panel	•••	• • • •		1	i		0 0 2	,,
11628 24150S	Nut	- h								(Ī	WN	0 0 4	"
241503 22164J	RI—7,500 CI—50 mn		•••	***	•••	•••	•••	•••	•••	• • •	1		0 0 6	,,
22164J	C2—50 mn	ntd nfd	•••		•••	•••	• • • •	•••	•••	•••			0 0 9	Each.
24900W	C30.05 n	nfd	•••	•••	•••	•••	•••	•••	•••	•••	ļ		0 0 9	,,
22164D	C415 mn	nfd	•••	•••	•••	•••	•••	•••	•••	•••	1		0 1 3	**
29945A	C7300 m	mfd	•••	• •••	• • • • • • • • • • • • • • • • • • • •	•••	• • • •	•••	•••	***	i I	Marian And	0 0 9	,,
29945B	C85-50 m	mfd			•••	•••		•••	•••	•••	į į		0 I 0 0 I 0	**
22005A	C10-0.00	5 mfd	•••		• • • •	•••	•••	•••	•••	•••	i		8 1 0	91
28444G	C33—160 r	mmfd	•••	•••		•••		• • •	•••		i		0 1 0	**
27092	Insulation	•••	•••	•••	•••	• • • •			•••	•••	İ		Ŏ Ó Ĭ	Doz.
15159 8777	Tag			•••	•••	•••	•••	• • •	• • • •		1		0 0 3	,,
1061	Screw, PK. secu Washer	arıng H.F. L	ınıt	•••	•••	• • •		•••	• • •	***	2		0 0 6	**
5673	Washer, SP for	r waveband	swit	ch	•••	•••			•••	∫	Ī	WN	0 0 3	,,
20305A	Screen for H.F.	unit							•••	Į	!		0 0 3	,,
8777	Screw, PK, secu	ring screen	•••	•••	•••	•••	•••	•••	•••	•••	1	CdP	0 1 0	Each.
	,,		•••	•••	•••	•••	•••	•••	•••	•••	3		0 0 6	Doz.
					TR	A NSF	ORME	ERS.						
26330AW	Ist I.F. transform	mer. with I	16 1	17 TCU	land.	TCI2								
26330AX	2nd I.F. transfor	mer, with	118	. 17, 1011 I 19. TCI	3 TC	ICIZ 14 and 1	ead an	d valve			1	*****	0 6 6	Each.
12619	Screw, PK, secu	ring I.F. tra	nsfor	mers	٠					-	1		0 6 9	_ ,,
18792E	TI—Intervalve i	transforme	•	•••	•••	•••	•••	•••	•••	•••	4	_	0 0 6 0 9 6	Doz.
8777	Screw, PK, secu	ring TI	• • •					***	•••	•••	2		0 9 6 0 0 6	Each. Doz.
22624AB	T2—Output tra	nsformer	•••	•••	•••	• • •			•••	•••	ī		0 6 6	Each.
10606	Screw, PK, secu	ring 12	•••	• • •	•••	•••	•••	• • •	•••		2	-	0 0 6	Doz.
					R	RESIST	A NCE	S						
	RI-See H.F. U	Init			-									
24150J	R11-50,000 ohr		•••								,			_
24150J	R12-50,000 oh:	ms		•••	•••	•••	•••	•••	•••	•••	i i		0 0 6	Doz.
24150AA	R13 100 ohms	•••		•••	•••	•••		•••	•••	•••	1		0 0 6 0 0 6	,,
24150AH	R14-15,000 ohi	ms	• • • •	•••	•••	•••	•••		•••	•••	i		0 0 6	"
24150J	R15-50,000 ohr	ms	•••	•••	•••				•••	•••	i	******	0 0 6	,,
24150J	R16-50,000 ohr		•••	•••		•••	•••	•••			i		0 0 6	,,
24150H 24150N	R17 35,000 ohr	ms	•••	• • •	• • •	•••	•••	• • •	•••		1		0 0 6	"
24150J	R18-500,000 of R19-50,000 of		•••	•••	•••	•••	• • •	•••	•••	•••	1		0 0 6	"
24150L	R20—100,000 of	ns	•••	•••	•••	• • •	•••	• • •	•••		!	-	0 0 6	,,
24150AM	R21—2·3 megol	nms nms	•••	•••	•••	•••	•••	•••	•••	•••	ļ	***************************************	0 0 6	11
30020BW	R23—230 ohms,	Special Lin	nit	•••	•••	•••	•••	• • •	•••	•••	!		0 0 6	,,
30020CR	R24-400 ohms,	Special Lir	nit	•••	•••	•••	•••	•••	•••	•••	!		0 3	,,
24150AM	R25-2·3 megot	ıms			•••	•••		•••	•••	•••	1		0 1 3	,,
24150M	R26-230,000 of	ıms	•••	•••	•••	•••	•••	•••	•••	•••	i	********	0 0 6	,,
24150AM	R27-2·3 megol	nms	•••	•••	•••	•••	•••	•••	•••		i		0 0 6	. **
17140B	R28—10,000 ohr	ns	• • •	•••	•••	•••			•••	•••	l		0 0 6	,,
24150AK 19104AA	R29—0.35 mego	ohm	•••	•••	•••	•••	• • •	• • •	•••	•••	1	**********	0 0 6	"
24150M	R30—50 ohms . R31—230,000 oh		•••	•••	• • •	•••	•••	•••		•••	1		0 1 0	"
27655EA	VRI and S2—Vo	ims	ol (2	merchm	c) and	006	 د میدنده	 h!ab	•••	•••	!		0 0 9	,,
5673	Washer, SP .	··· ···	01 (2	megonin						•••	<i>]</i>		0 5 0	,,
1061	Washan'	•••	•••	•••	•••	•••	•••	•••	•••	***	I I	\A/N!	0 0 3	,,
			•	***	•••	•••	•••	•••	•••	• • •	1	WN	0 0 3	,,
					С	ONDE	NSER	S.						
	CI-C4, C7, C8,	. C10see	H.F	unit	_									
24900AA	C21-0·1 mfd				•••								0 1 0	. .
22164K	C22 75 mmf		•••	•••	•••	•••	•••	•••	•••	•••	1	*******	0 1 0	Each.
24900AA	C23—0·I mfd		•••	•••	•••	•••	•••	•••	•••	•••	i		0 0 9 0 1 0	,,
						•			- • •	•••	•		0 1 0	"

Part No.			•	Descri	ption.						Parts per Inst.	Finish.	Retail List Price.	Per
	A A A A A A A A A A A A A A A A A A A		,										£ s. d.	
22164L	C24-100 mmf.	•••									I		0 0 9	Each
22164K	C25—75 mmf.	•••	•••			•••		• • •		•••	i.		0 0 9	,,
17250K	C26—8 mfd	•••	• • •	•••	•••	•••	•••	• • •	•••	•••	ļ	\ \A/\!	0 2 0	**
19810	Clip	ring C26		•••			• • •			{	i i	WN	0 0 I 0 0 6	Doz.
8777	JCFCH, I IC									Ĺ	i i		0 0 0	Each.
24900W 22164K	C27—0·05 mfd C28—75 mmf.		•••	•••	•••	•••	•••	• • • •		•••	i	-	0 0 9	,,
24900AA	C29—0 · I mfd	•••	•••			•••	•••	•••		•••	j	-	0 1 0	,,
24900C	C31—0.0015 mfd.			•••	•••	•••	•••	•••	•••		l l	· Constant	0 1 0	,,
24900AA			•••				•••	• • •	•••	•••	Į.	***************************************	0 0	,,
24900C	C34-0.0015 mfd.			•••	• • •	•••	•••	•••	•••	•••	i		0 1 0	"
	C33—see H.F. uni			•.										
202506	TC1, TC2, TC3 ar	nd IC6s	ee H.F	. unit.							ı	,	0 I 9	
20250C	TC7—Tubular tri				•••	•••	•••	•••	•••	٠	i	WN	0 0 I	"
202 57 202 58	Nut, thin $\int_{0}^{\infty} s\epsilon$	curing TC	7 to ir	nsulatin	g panel	•••	•••	•••	• • • •	{	i	WN	0 0 1	,,
2994	Insulating panel							•••			I	_	0 0 6	Doz.
12619	Screw, PK, securi	ng panel	•••	•••	•••		•••	•••	•••	• • • •	4	_	0 0 6	,,
	TCII and TCI2—	-in ÍFT I												
	TCI3 and TCI4												2 0 0	Each
20280F	VCI and VC2—C						•••	• • •	• • •	• • •	 		2 0 0 0 11 0	Each.
20280E	VC and VC2,	less push	butto	n unit	 naha an	d for	 r scrow	e for	securin		ı		0 11 0	,,
29904B	Push button								3ecu 111		I		0 16 9	"
29905A	base plat Base plate, w		 ud	•••		•••	•••	•••		•••	Ì	AISp	0 0 9	,,
29906A	Wing plate a					•••	•••	•••	•••		I	AlSp	0 0 4	11
29940	Bearing plate	·				•••		•••	•••		2	AISp	0 0 4	Doz.
10606	Screw, P.K,	securing b	earing	plate					• • •		2		0 0 6	_ ".
29909	Bush				•••	•••	•••	• • •	•••	•••	l	WN	0 0 6	Each.
13387	Screw, secur			end be		•••	***	•••	• • •	•••	2	WN AlSp	0 0 3 0 0 2	Doz. Each.
29910A	Adjusting lin	ik and pin	•••	•••	•••	•••	•••	•••	•••		i I	WN	0 0 6	Doz.
11227 2165	Screw Washer, SP	cocuring	diusti	na link	to bush	h			•••	J	ì	_	0 0 2	,,
10606	Screw, PK	Securing	aujusti	ing mick	to busi	•	•••	•••	•••		2		0 0 6	,,
20752	Screw									Ì	2	WN	0 0 6	,
3166	Washer, SP	securing	two-ga	ang con	denser	to pu	sh butt	on un	it	{	2		0 0 2	,,
29911	Spacer			•		•				l	2	WN	0 0 6	, ,,
29912A	Condenser of			•••	•••	•••,		•••	•••	•••	1	AlSp	0 0 3	Each.
28325	Screw, secur	ing operat	ting ar	m to co	ondense	r spin	idle			•••	i I	WN WM	0 0 3	Doz. Each.
29913A	Link assemble	ly, connect	ting of	perating	g arm to	o quad	irant oi	F.D. (11111	•••	i	WN	0 0 6	Doz.
29914 3165	Guide pin, fo	or disenga;	gillg le	ivei		•••	•••	•••	•••	٠	i		0 0 2	,,
11629	Washer, SP	securing	guide	pin to f	ront pla	ate of	conder	iser	• • •	1	1	WN	0 0 3	,,
29915B	Bracket asse	mbly, with	n bush	•••			•••	•••	•••		I	AlSp	0 0 9	Each.
10606	Screw, PK, s	ecuring br	acket	assemb	ly to to	pofc	ondens	er fro	nt plate		2	Process.	0 0 6	Doz.
29917	Tuning spine		•••	• • •	• • •		• • •	• • •	•••	•••	į		0 0 3	Each.
29918	Friction bush	h	• • •	•••	•••	•••	•••	•••	•••	•••	!		$\begin{array}{cccc} 0 & 0 & 1\frac{1}{2} \\ 0 & 0 & 1 \end{array}$,,
29919		•••	• • •	•••	••••	••	•••	•••	•••	•••	!		0 0 1	Doz.
1048	N.I.		• • •	•••	•••	•••	•••	•••	•••	•••	i	WN	0 0 3	",
11629 29920	Spring wire,	 securing 1	 Tuning	spindle	···	•••		•••	•••	•••	i		0 0 6	"
14987										ſ	I	WN	0 0 1	,,
8777	Washer Screw, PK	securing	spring	wire	•••		•••	•••	***	1	ļ		0 0 6	
29941	Adjusting sc	rew (at to	p of b	racket)	•••		•••	•••	•••		!	WN	0 0 1	Each.
15938	Locking nut	•••	• • •	•••	•••		•••	• ; •	•••	•••	į.	WN	0 0 6	Doz.
29921A	Disengaging	lever for f			with b	ali	• • •	•••	•••	• • •	1	AlSp	0 0 3 0 0 I	Each.
29922	Link .		•••	•••	•••	***	•••	•••	•••		1	AlSp	0 0 1	Doz.
20936	Felt washer Washer	securir	og link	to nin	on adiu	stina	link 129	9104)	J	i	WN	0 0 1	,,
23108 21233B	vvasner Split pin	Securii	ig HIIK	to biii	on auju	aciiig	(2	. , 10/1	<i>,</i> .)	i	WN	ŏŏi	,,
29924A	Condenser of	drive disc	and bu	sh, wit	h chain	pulley	<i>/</i>			•••	Ì		0 I 3	Each.
23048	Screw, secui						•••	•••	•••		2	WN	0 0 6	Doz.
29968A	Lead anchor			•••	•••	• • •	•••		•••	•••		-	0 0 1	Each.
16755	Rubber bush			•••	•••		• • •		•••	•••	I		0 0 6	Doz.

Part No.				De	scrip	tion.					ī	Parts per Inst.	Finish.	Retail List Price.	Per
21236A 6305 3167 11627 28399	Rubber bush Washer Washer, SP Nut Felt disc, for	sec		wo-gai	ng cor	ndenser :	and p	ush but 	ton un	it	{	3 3 2 3 6	 WN WN	£ s. d. 0 0 1 0 0 1 0 0 2 0 0 3 0 0 2	Each. Doz.
						TUNI	NG	DETA	11 5						
	Tuning scale	see pag	ges 6 ar	nd 7.		. •		DLIA	ı Ew.						
6276 3166 11220 29929A 20810B	Washer Washer, SP Screw Pointer Chain pulley	•••	g tuning	scale 		***					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 2 2 1	WN — MGSp	$\begin{array}{cccc} 0 & 0 & 6 \\ 0 & 0 & 2 \\ 0 & 0 & 2 \\ 0 & 0 & 4\frac{1}{2} \\ 0 & 0 & 7 \end{array}$	Doz. ", Each.
1021	Washer	• • • • • • • • • • • • • • • • • • •		· · · ·	•••	***	•••	•••	• • •	•••	•••	2		0 0 4	Doz.
20938 20844F 9076 29928A 29931	Screw, secur Chain Spring, for cl Lampholder: Screw	 hain assembly	····	 	***	•••	•••	•••	•••	•••		2 	 WN	0 0 4 0 0 9 0 0 1 0 0 6 0 0 1	Each.
28876 29936 3165 11629 28735A	Rubber wash Washer Washer, SP Nut				_	mpholde		embly	•••	•••		2 	WN 	0 0 6 0 0 2 0 0 2 0 0 3 0 0 6	Doz. ,, ,,
27734	Insulating wa Spring	SIICI AIIG	Cyclet	} for	lead	to lamp	•••	•••	***	•••	{			0 0 1	Each.
22704B 24337D 13387	Lamp Lever and bu Screw, secur	 Ish, with ing bush	pin to spin	 dle of	 SI	•••	•••	•••	•••	•••	•••]] 	WN WN	0 0 9 0 0 6 0 0 3	, ,, Doz.
29932 20936 23108 21233B	Link Felt washer Washer Split pin) ···	•••	•••	•••	 der and	 to le	··· ver on s	 switch	 spindle	{	 2 2	WN	0 0 1½ 0 0 1 0 0 1	Each. Doz.
						S	WIT	CHES.			-				
29901A 8777	SI—Wave ra S2—On/Off s S3—Battery bracket Screw, PK, s	witch—s economis	see VRI ser swit 	ch, co 	mplet 					d mount 	ing 	1 3		0 2 9 0 0 6	Each. Doz.
			V	ALVE	но	LDERS	. sc	REENS	S. PAN	NELS, E	TC.				
28830A 18299	Valve holder, Rivet, securi		•••				, 		 	···		ı I 2		0 I 2 0 0 3	Each. Doz.
26000B 24981 16353	Valve holder, Valve screen Rivet, securin	5-pin base		 and sc	 reen l		•••	· · · ·	•••	•••	•••	4 2 8	CdP	$\begin{array}{cccc} 0 & 0 & 4\frac{1}{2} \\ 0 & 0 & 3 \\ 0 & 0 & 1 \end{array}$	Each.
24982B 26112 28834A	Valve screen Valve screen A and E pane	top	•••	•••	•••	•••	•••	•••	•••	•••	•••	2 2		0 0 1 0 0 8 0 0 2 0 0 6	Doz. Each. ,,
16352 17274A 14512	Rivet, securii Valve matchii	ng panel ng panel,	 with t	 hree t	 ermin	•••	 's and	_	•••	•••	•••	4 !	-	0 0 1	Doz. Each.
14511 11228	Tag Nut Termina	 I screw	•••	•••	•••	•••	•••	•••	•••	•••	•••	3 3 3	WN WN	0 0 6 0 0 4 0 0 2	Doz.
16352 22677D 26139	Rivet, securing Condenser as Backing pane	nd Resis	tance p	 anei, v 	 vith e 	•••		•••	•••	•••		2 4 1		0 0 I 0 0 6 0 0 6	;; Each. Doz.
8777 25494 25495	Screw, PK, se Small panel Small backing	curing p	an e ls			•••	•••	•••	•••	•••	•••	2 		0 0 6 0 0 I	Each.
10400 8777	Tag Screw, PK, se	 curing p		•••	•••	•••	•••	•••	•••	•••	•••	8 4		0 0 1 0 0 1 0 0 6	,, Doz. ,,
25174B 12619 20334A	Tag panel, wi Screw, PK, se Insulated tag	curing t		 I	•••	•••	•••	•••	•••	•••	•••	1 2 1		0 0 2 0 0 6 0 0 2	Each. Doz. Each.

Togs Petrox	rt No.				Descr	iption.						Parts er Inst.	Finish.	Retail List Price.	Pe
Insulating bush. In agree		//	1.1.20												_
	755	Insulating bush		•••	•••	•••	***			•••	•••		Married Co.	-	Doz
1 0 0 0 0 0 0 0 0 0		Insulating bush	. (larger)			• • •			•••	***	• • •	_			_ ''
1975 Pilg. yellow	9969A	Battery lead, w	ith four plu		two tag	ξs	• • •	•••		• • •	• • •	_	****		Eaci
Tag									• • •	•••			-		_ ,,
STATE Company Compan							• • •		• • •	•••		2			Doz
Clip, for valve top												l			Eac
1												2			,,
Screw, PK, securing tags			•									1	-	0 0 3	Do
Strew, resouring eleat to front of chassis 1							•••	•••				1	***	0 0 6	,,
Loudspeaker		Screw, PK, sec	uring tags				•••	•••	•••			1		0 0 3	,,
COUDSPEAKER.		Large cleat, to	· leads					•••	•••			ì		0 0 6	
Cap Cop 606	Screw, PK, sec	uring cleat	to trof	it of chi	15515	•••	•••	•••	•••	•••	•			•	
Course Cone chassis, with 4 brackets and two studs						LO	UDSF	PEAKE	R.				*		
Cape chassis, with 4 brackets and two studs Cape Cap	760D	Loudspeaker				•••	•••	•••		•••	•••	ļ.			Eacl
		Cone chas	sis, with 4 b		s and t	wo studs	s	•••	•••	• • •	• • •	l	CdP		*.
Acc				4				•••		•••		l			,
											ſ				•
		Nu+ sec	uring magne	t to co	one cha	SSIS	•••	•••	•••	•••	1	4	AcD		Do
100 Cone mounting ring, inner							4		•••	• • •	•••	I			Ea
Cone mounting ring, outer									•••			1		0 0 3	,
1012 Felt		Cone mot	inting ring,	HIHE								1	-	0 0 2	
1012 Felt												l	-		
1314 Washer			••• •••	•••	•••	•••	•••	•••	•••	•••		ż	WN.	0 0 6	
1975 1975					1			n cone	chassis	c	J	5		0 0 1	
Cabinet back Cabi				ng spi	der of c	one to	stuas c	on cone	CHASSI	3)	วั			
				_							C	Į.			
1		Terminal	panel, with	2 tags	•••	•••	•••	•••	• • •			່ວ			
	806	Tag				•••	•••	•••	•••	***					
Dust bag	211	Screw, Pk	(, securing t	emina	l panel	•••	•••	• • •	•••	•••	•••				
Screw Securing loudspeaker	280					•••	•••	•••	• • •	•••	•.,	-			
											-				D
CABINET FITTINGS, PLUGS, ETC.			securing lou	dspeak	(er	•••	•••		•••	•••	- ₹				1
CABINET FITTINGS, PLUGS, ETC.			J	•							Ĺ	4	VVIN	0 0 2	•
2935A Cabinet back					CABII	NET FI	ITTIN	GS. P	LUG	s, ET	3.				
Screw Securing cabinet back to bracket	303 E A	Cobinet back								•		ı		0 1 6	Ea
8882 Strap, for accumulator				٠.٠	 Lanhu	nekot	•••	•••			ĺ				Δ,
Base Strap, for accumulator Base Base O 0 9 D		Washer se	curing cabin	et dac	K to Dr	acket	•••	***	***	•••	l	3			
B881 Pivot pin 3165 Washer, SP Securing strap to cabinet back		Strap for acci	umulator					•••			•••	ı			_
1655 Washer, SP securing strap to cabinet back			amaracor	***	• • • • • • • • • • • • • • • • • • • •							ı	BzP		D
1629 Nut				an to	cahinet	back				•••	{	ı			
9939 Tuning escutcheon	888 I	Washer SP	cocuring str	αριο.		ouc.		• • • •			1	ı	WN	0 0 3	
9545 Screw, securing escutcheon	8881 3165	Washer, SP	securing str								•	I		0 1 2	
Rubber strip .	8881 3165 1629	Washer, SP Nut													D
9934 Window	8881 3165 1629 9939	Washer, SP Nut Tuning escut	cheon	•••	•••		•	•••				4	BzP	0 0 2	
19934 Villow	8881 3165 1629 9939 9545	Washer, SP Nut Tuning escute Screw, securi	cheon ing escutche	 on	•••		•••		•••	•••		-			
Screw Scre	888 3 65 629 9939 9545 7893	Washer, SP Nut Tuning escute Screw, securi Rubber strip	cheon ing escutche 	on	•••	•••		•	•••	•••	•••	-		0 0 6	_
9937 Push button escutcheon	888 3 65 629 9939 9545 7893 9934	Washer, SP Nut Tuning escute Screw, securi Rubber strip Window	cheon ing escutche 	on	• • • • • • • • • • • • • • • • • • • •	•••		•	•••	•••	•••	4	•	0 0 6	E
9937 Push button escutcheon	8881 3165 1629 9939 9545 7893 9934 6107	Washer, SP Nut Tuning escute Screw, securi Rubber strip Window Clamp	cheon ing escutche 	on	• • • • • • • • • • • • • • • • • • • •	•••	•••	•••	•••	•••	•••	4 	— — ParB	0 0 6 0 0 6 0 0 6	E
9932 Screw, securing escutcheon	8881 3165 1629 9939 9545 7893 9934 6107 4791	Washer, SP Nut Tuning escuto Screw, securi Rubber strip Window Clamp Screw	cheon ing escutche ecuring wind	on	• • • • • • • • • • • • • • • • • • • •	•••	•••	•••	•••		{	4 	ParB ParB	0 0 6 0 0 6 0 0 6 0 0 4	E C
Station strip	3881 3165 1629 9939 9545 7893 9934 6107 4791	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button	cheon ing escutche ecuring wince	on low to	escutc	•••	•••	•••	•••			4 1 4 4	ParB ParB	0 0 6 0 0 6 0 0 6 0 0 4 0 I 0	E C
Station strip—Radio Normandie, Midland Regional, London Regional, North Regional, Luxembourg (LW) and Droitwich (LW)	8881 3165 1629 9939 9545 7893 9934 6107 4791 9937	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button Screw, securi	cheon ing escutche ecuring wind escutcheon ing escutche	on on dow to	escutc	 heon					···· {	4 1 4 4 1	ParB ParB BzP	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2	E C
Regional, Luxembourg (LW) and Droitwich (LW)	3881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button Screw, securi	cheon ing escutche ecuring winc escutcheon ing escutche	on dow to	escutci	 heon					{	4 1 4 4 1 4	ParB ParB BzP	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2	E C E
9218 Station sheet	3881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button Screw, securi Backing strip Station strip	cheon ing escutche ecuring winc escutcheon ing escutche , for station —Radio No	on dow to	escutci	 heon Iand Re	 gional,	 Londo	 on Regi	 ional, I	 { 	4 1 4 4 1 4	ParB ParB BzP	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1	E C E E
6787B Ex. L.S. bracket and panel with three sockets	3881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button Screw, securi Backing strip Station strip	cheon ing escutche ecuring winc escutcheon ing escutche , for station —Radio No	on dow to	escutci	 heon Iand Re	 gional,	 Londo	 on Regi	 ional, I	 { 	4 1 4 4 1 4	ParB ParB BzP	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1	E C C E
1531G	3881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9937 9933 9217	Washer, SP Nut Tuning escution Screw, securion Rubber strip Window Clamp Screw Push button Screw, securion Backing strip Station strip Regional Station sheet	cheon ing escutche ccuring winc escutcheon ing escutche , for station —Radio No , Luxembou	on dow to on strip rmand rg (LV	escutci	heon land Re	 gional, ch (LW	 Londo	 on Regi	 ional, f	 { North	4 1 4 4 1 4	ParB ParB BzP	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1	E C C E
6353 Rivet, securing panel	3881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9937 9932 9933 9217	Washer, SP Nut Tuning escution Screw, securion Rubber strip Window Clamp Screw Push button Screw, securion Backing strip Station strip Regional Station sheet	cheon ing escutche ccuring winc escutcheon ing escutche , for station —Radio No , Luxembou	on dow to on strip rmand rg (LV	escutci	heon land Re	 gional, ch (LW	 Londo	 on Regi	 ional, I	 North	4 1 4 4 1 4	ParB ParB BzP	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 6	E C C E
8697 Screw, securing panel to cabinet	3881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933 9217 9218 6787B	Washer, SP Nut Tuning escution Screw, securion Rubber strip Window Clamp Screw Push button Screw, securion Backing strip Station strip Regional Station sheet Ex. L.S. brack	cheon ing escutche curing winc escutcheon ing escutche , for station —Radio No , Luxembou ; ket and pane	on dow to on strip rmand rg (LV	o escutci	heon land Re Droitwic	 gional, ch (LW	 Londo	 on Regi	 ional, f	 { North 	4 4 4 1 1 1 1 1 1 1	ParB ParB ParB — BzP —	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 3	E C C E
9104AA Resistance 50 ohms (R30)	3881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9931 9217 9218 6787B 1531G	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button Screw, securi Backing strip Station strip Regional Station sheet Ex. L.S. brack	cheon ing escutche curing winc escutcheon ing escutche , for station —Radio No , Luxembou ; ket and pane	on dow to strip rmand rg (LV el with	escutci	heon land Re Droitwic	 gional, ch (LW	 Londo	 on Regi	 ional, f	 { North 	4 1 4 1 4 1 1 1	ParB ParB ParB — BzP —	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 3 0 0 1	E C C E
3475G Plug, yellow	8881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933 9217 9218 6787B 1531G 6353	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Screw Push button Screw, securi Backing strip Station strip Regional Station sheet Ex. L.S. brack Panel wi Rivet, se	cheon ing escutche curing winc escutcheon ing escutche , for station —Radio No , Luxembou ; ket and pane th three soc	dow to	escutci	heon land Re Droitwic	 gional, ch (LW 	 Londo /) 	 on Regi 	 ional, î	 { North 	4 1 4 1 4 1 1 1	ParB ParB ParB — BzP —	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 0 1 0 0 6 0 0 3 0 0 1 0 0 2	E C E
18839B Ex. L.S. lead	8881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933 9217 9218 6787B 1531G 6353 8697	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button Screw, securi Backing strip Station strip Regional Station sheet Ex. L.S. brac Panel wi Rivet, se Screw, secur	cheon ing escutche curing winc escutcheon ing escutche , for station —Radio No , Luxembou ; ket and pane th three soc ecuring pane ing panel to	dow to	escutci	heon land Re Droitwic	 gional, ch (LW 	 Londo () 	 on Regi 	 ional, f	 { North 	4 1 4 1 4 1 1 1	ParB ParB ParB — BzP —	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 0 1 0 0 0 3 0 0 0 1 0 0 0 2 0 1 0	E:C C E E C E E E E E E E E E E E E E E
6289J Aerial plug, yellow	8881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933 9217 .9218 6787B 1531G 6353 8697	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button Screw, securi Backing strip Station sheet Ex. L.S. brac Panel wi Rivet, se Screw, secur	cheon ing escutche curing winc escutcheon ing escutcheon ing escutcho —Radio No —Radio No i, Lux ket and pane th three soc ecuring pane ing panel to O ohms (R30	dow to strip rmand rg (LV el with kets cabine)	escutci	heon land Re Droitwic	 gional, ch (LW 	 Londo () 	on Regi	 ional, f	 	4 1 4 1 4 1 1 1	ParB ParB BzP — — — — WN	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 0 1 0 0 0 3 0 0 0 1 0 0 0 2 0 1 0 0 0 1	E: C E E E
16289 Aerial plug, yellow	8881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933 9217 .9218 6787B 1531G 6353 8697 9104AA 3475G	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Push button Screw, securi Backing strip Station sheet Ex. L.S. brac Panel wi Rivet, se Screw, secur Resistance 50 Plug, yellow	cheon ing escutche curing winc escutcheon ing escutche , for station —Radio No , Luxembou ket and pane th three soc curing panel ing panel to ohms (R30	dow to strip rmand rg (LV el with kets cabine)	escutch in three	heon land Re Droitwic	 gional, ch (LW 	 Londo (/) 	 on Regi	 ional, f	 	4 1 4 1 4 1 1 1	ParB ParB BzP — — — — WN	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 0 1 0 0 0 3 0 0 0 1 0 0 0 2 0 1 0 0 0 1	E: C E E E
16289B Earth plug, black	8881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933 9217 29218 6787B 1531G 6353 8697 19104AA 3475G 28839B	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Screw, securi Backing strip Station sheet Ex. L.S. brac Panel wi Rivet, se Screw, secur Resistance 50 Plug, yellow Ex. L.S. lead	cheon ing escutche curing winc escutcheon ing escutcheo , for station —Radio No , Luxemou , Luxemou , th three soc ecuring panel ing panel to) ohms (R30	on dow to on strip rmand rg (LV el with ckets cabine)	escutch in three	heon land Re Droitwic sockets	 gional, ch (LW 	 Londo (/) 	on Regi	 ional, f	 North 	4 4 4 1 1 1 2 2 1 1 1 1 1	ParB ParB ParB — BzP — — — — — — — — — — — — — — — — — — —	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 0 1 0 0 0 3 0 0 0 1 0 0 0 2 0 0 1 0 0 0 2 0 0 1 0 0 0 0 4	E: C E E E
165/8 Cleat, for E.S. lead	8881 3165 1629 9939 9545 ,7893 ,9934 ,6107 4791 ,9937 ,9932 ,9933 ,9217 ,9218 ,6787B ,1531G ,6353 ,8697 ,19104AA ,3475G ,28839B ,16289J	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Screw, securi Backing strip Station strip Regional Station sheet Ex. L.S. brack Panel wid Rivet, see Screw, securi Resistance 50 Plug, yellow Ex. L.S. lead Aerial plug,	cheon ing escutche ecuring wind escutcheon ing escutche , for station —Radio No , Luxembou ; ket and pane th three soc ecuring pane the three soc curing pane ing panel to) ohms (R30 yellow	dow to	escutch in three	heon land Re Droitwic sockets	 gional, ch (LW 	 Londo /) 	 on Regi	 ional, f	 North 	4 4 4 1 1 1 2 2 1 1 1 1 1	ParB ParB ParB — BzP — — — — — — — — — — — — — — — — — — —	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	E: D E: D E
8692 Screw, securing cleat	8881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933 9217 29218 6787B 1531G 6353 8697 19104AA 13475G 28839B 16289J	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Screw, securi Backing strip Station strip Regional Station sheet Ex. L.S. brack Panel wi Rivet, se Screw, securi Resistance 50 Plug, yellow Ex. L.S. lead Aerial plug, Earth plug, be	cheon ing escutche curing wind escutcheon ing escutche , for station —Radio No , Luxembou ; ket and pane th three soc curing pane ing panel to o ohms (R30 yellow yellow	on dow to on strip rmand rg (LV kets cabine)	descutch and the second and three and three and three and three and the second and three and thr	heon land Re Droitwic sockets	 gional, ch (LW 	 Londo /) 	 on Regi	 ional, f	 North 	4 4 4 1 1 1 2 2 1 1 1 1 1	ParB ParB ParB — BzP — — — — — — — — — — — — — — — — — — —	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 0 1 0 0 0 3 0 0 0 1 0 0 0 2 0 1 0 0 0 1 2 0 0 1 2 0 0 2 0 0 0 2 0 0 0 2 0 0 0 1 0 0 0 2 0 0 0 0	
	8881 3165 1629 9939 9545 7893 9934 6107 4791 9937 9932 9933 9217 9218 6787B 1531G 6353 8697 19104AA 3475G 28839B 16289J 16289B 16289B	Washer, SP Nut Tuning escuti Screw, securi Rubber strip Window Clamp Screw Screw, securi Backing strip Station strip Regional Station sheet Ex. L.S. brack Panel wi Rivet, se Screw, securi Resistance 50 Plug, yellow Ex. L.S. lead Aerial plug, the Cleat, for L.S.	cheon ing escutche curing wind escutcheon ing escutche , for station —Radio No , Luxembou ; ket and pane th three soc curing pane ing panel to o ohms (R30 yellow yellow yellow S. lead	on dow to on strip rmand rg (LV cabine)	ie, Mid	heon land Re Droitwic sockets	 gional, ch (LW 	 Londo /) 	 on Regi	 ional, I	 North 	4 4 4 1 1 1 2 2 1 1 1 1 1	ParB ParB BzP WN WN	0 0 6 0 0 6 0 0 6 0 0 4 0 1 0 0 0 2 0 0 1 0 0 6 0 0 3 0 0 1 0 0 0 2 0 1 0 0 0 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	E: C E E E

Part No.		Descrip	otion.		·		######################################	Parts per Inst.	Finish.	Retail List Price.	Per
			M	ODI	EL 8	72.					
	Instructions.									£ s. d.	
27081 29216 27093	Warning and valve position instruction card	n	•••	•••]	a morning	0 0 1	Each.
27073	I ransit label		•••	•••	•••		•••	1		0 0 6	Doz.
				CAB	INET.						
86329B 8195	Cabinet Rubber foot		•••	•••	•••	•••	•••	I	Pol	3 5 0 0 0 8	Each. Doz.
14922 9547	Baffle board, with inso Insert nut Screw, securing baffle		•••		•••	•••	•••	1 4 5	Std CB	0 2 6 0 I 4 0 0 2	Each. Doz.
29946 19273	Wire mesh Pin, securing mesh to	baffle	•••	•••	• •••	•••	•••	1 4	AnBr	0 2 6 0 0 I	Each. Doz.
24873	Fe!t for wire mesh, $\frac{1}{8}$ Felt for wire mesh, $\frac{1}{4}$ Bracket, for cabinet b	in., S1459, 22 ack	5/82316 5/84316 	•••	•••	•••	•••	— 3	CpP	0 0 9 0 0 9 0 0 1	Sq. ft. ,, Each.
9545	Screw, securing brack	ets	•••	•••	•••	•••	•••	6		0 0 2	Doz.
			(CONT	rrols	5.					
20967J 11773 27804AT 27804AVV	Knob—"Tuner" Grub screw, securing tune Knob—"Volume" Knob—"Wave band"	er knob	•••		•••	•••	•••		ChF WN ChF ChF	0 0 9 0 0 2 0 0 6 0 0 6	Each. Doz. Each.
27804AU 11805	Knob—" Battery Economi Screw, PK, securing knobs	ser''		•••		•••	•••	i	ChF	0 0 6	,, Doz.
ē .			R	ADIO	UNI	т.					
29900B	Radio unit		•••		•••	•••	•••	!		9 0 0	Each.
29926C 29026 29942 28769	Tuning scale Screw, I in. Screw, 2½ in.	radio unit	•••				•••	\[\begin{pmatrix} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	WN WN	0 3 9 0 0 I 0 0 I ¹ / ₂	,, ,,
10173C 8651	Spring washer Screw, securing tuning sca			•••	•••	•••	•••		WN WN	0 0 6 0 0 2 0 0 2	Doz.
8651	Transit screw		•••	•••	•••	•••	•••	i	RedHd	0 0 6	"
			MC	DE	L 14	100.					
	Instructions.										
27080 29215 27093	Warning and valve position Instruction card Transit label	•••	•••		•••					0 0 1	Each.
27073	I ransit label		***	•••	•••	•••	***		A TOTAL PROPERTY AND A TOTAL PARTY AND A TOTAL P	0 0 6	Doz.
				CABI	NET.						
86347B 8195	Cabinet Rubber foot Baffle board, with inse		•••			•••	•••	I 4	Pol — Std	3 5 0 0 0 8	Each. Doz.
14922 9547	Insert nut Screw, securing baffle	rt nuts	•••	•••				1 4 5	Std CB —	0 2 6 0 0 1 0 0 2	Each. ,, Doz.
29947 19273	Wire mesh Pin, securing wire-mes Felt for wire mesh, \{ \frac{1}{8}} in., S	 sh to baffle 1429, 225/823	 316			•••	•••	I	AnBz —	0 2 6 0 0 1 0 0 9	Each. Doz.
24873	Felt for wire mesh, $\frac{1}{4}$ in Bracket, for cabinet be	in., S1459, 22. ick	5/84316	•••	•••	•••	•••	3	CdP	0 1 3	Sq. ft. Each.
9545	Screw, securing brack	ets	•••	•••	•••	•••	•••	6	-	0 0 2	Doz.

Part No.	[Descrip	tion.					Parts per Inst	Finish.	Retail List Price.	Per
				CONT		2	1.07			£ s. d.	
20967B 11773 27804 27804R 27804AV	Knob—" Tuner" Grub screw, securing tuner knob Knob—" Volume" Knob—" Wave Band" Knob—" Battery Economiser"						•••		ChF WN ChF	0 0 9 0 0 6 0 0 6 0 0 6 0 0 6	Each. Doz. Each. ", Doz.
11805	Screw, PK, securing knobs		 R	 ADIO	 UNI	т.	•••	.,. 3		0 0 0	D02.
29900C 29926E 29026 29942 28769	Radio Unit Tuning scale Screw, 1 in. Screw, 2¼ in. Washer	 unit	•••	•••	•••	•••	•••			9 0 0 0 3 9 0 0 1 0 0 1 0 0 6 0 0 2	Each. ,, ,, Doz.
10173C 8651 8651	Spring washer J Screw, securing tuning scale to ca Transit screw	abinet 				•••	•••		WN RedH	0 0 2	" "

" FINISH " CODE.

AcD		•••	 Acid Dip.	MGSp			•••	Matt Gold Spray.
AlSp			 Aluminium Spray.	ChF			•••	Chrome Filled.
AnBr			Antique Brass.	ParB		•••	•••	Parkerised Black.
AnBz		•••	Antique Bronze.	Pol		• • •		Polished.
BzP			 Bronze Polish.	RedHd	•••	• • •	•••	Red Headed.
BzSp			 Bronze Spray.	Std			•••	Standard.
СВ	•••		Camera Black.	WN				White Nickel.
CdP	•••	•••	Cadmium Plated.					

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- 2. Spare part number, description, and "finish" as given in the above list.
- 3. Quantity required.

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