

# MARCONIPHONE SERVICE MANUAL

## MODEL 260—4-VALVE BATTERY RECEIVER

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**PRIVATE AND CONFIDENTIAL—TO THE TRADE ONLY**

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## THIS IS THE FINEST OF ALL BATTERY RECEIVERS

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### GENERAL DESCRIPTION.

#### WAVELENGTH RANGE.

**Medium Waves.**—200 to 550 metres (approximately).

**Long Waves.**—1,000 to 2,100 metres (approximately).

#### CURRENT CONSUMPTION.

L.T. Radio 0.62 Amp. ; Gram. 0.65 Amp. (approximately).

H.T. 6-7 M.A. (no signals), 16 M.A. peak total feed (loudest signals).

#### VALVES AND EQUIPMENT.

The high frequency valve, Marconi VS 2 (metallised), is followed by an HL2 detector (metallised), which is transformer coupled to a pair of Marconi P.T. 2's, which are arranged on the Marconi Parallel Conductance Principle—an improved form of Q.P.P. output.

*Marconi P.T.2 Valves bearing a large white reference letter, viz., V, W, X, Y, or Z, are specially designed for this instrument. Non-lettered Valves and Valves other than those specified must not be used.*

The standard equipment comprises a Marconiphone 175-volt combined H.T. battery and G.B. battery, and a 2-volt 58 ampere-hour accumulator.

#### PHYSICAL SPECIFICATION.

Overall Height.  
19½ inches.  
49.5 cm.

Overall Width.  
15 inches.  
38 cm.

Overall Depth.  
9½ inches.  
24 cm.

Net weight : 44½ lbs. (20.4 kg.) with batteries. Gross weight : 61 lbs. (27.6 kg.) with batteries.

#### CIRCUIT.

Model 260 is of a 4-valve self-contained battery receiver with extremely selective band-pass tuning and P.C.P. push-pull output.

Aerial tuning coils, L 1, L 2, are inductively coupled to the first tuned circuit L 3, L 4, VC 1, which is in turn coupled to grid tuning coils (L 5, L 6, VC 2) of H.F. valve. (See Fig. 1.)

The sensitivity of the H.F. valve is controlled by the potentiometer VR 2, which controls the voltage applied to the screening grid of that valve and also regulates the reaction, whilst VR 1 (which is ganged with VR 2) regulates aerial input.

The coupling between H.F. and Detector valves is by H.F. transformer L 7, L 8, L 11, L 12, the secondary being tuned by VC 3. L 9 and L 10 are the "reaction" coils. Coupling between the detector valve and the output pentodes is by means of the parallel fed transformer T 1.

#### LOUDSPEAKER.

Improved moving coil type. D.C. Resistance of speech coil—4.0 ohms.

### INSTALLATION.

#### OUTDOOR AERIAL.

The length of aerial should be about 80 feet and should be as high as possible—especially the end remote from the instrument.

#### REDUCING INTERFERENCE.

Changing the direction of an aerial will often reduce noise from lighting, telephone and tramway trolley wires, and also interference caused by a powerful local transmitter.

#### INDOOR AERIAL.

Due to the extreme sensitivity of this instrument an indoor aerial may be employed where circumstances do not permit the erection of an outdoor aerial. An insulated wire about 50 feet long, stretched between hooks screwed into the picture rail, will suffice to bring in local stations at adequate strength. Choose an inner wall which is not likely to be damp and keep wire away from the wall.

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**SEE BACK COVER FOR CHIEF SALES POINTS**

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## MODEL 260 WILL OPERATE AN EXTERNAL MOVING-COIL SPEAKER

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### ADJUSTING TO SUIT AERIAL.

This receiver has been ganged on a normal aerial at the factory, but, due to the widely differing aerial capacities which may be found, even in aerials of the same length, it is recommended that the instrument be adjusted to suit the customer's own aerial.

Proceed as follows :—

1. Tune in a weak distant station on the lower end of the medium waveband (between 200 and 230 metres).
2. Temporarily remove the left-hand PT 2 valve. This will allow easy access to the variable condensers. The strength of speech output will be found sufficient for the trimming operation.
3. With a short screwdriver adjust the trimmer of the variable condenser VC 1 (the section of triple variable condenser which is nearest to front of cabinet) until the loudest possible signals are obtained. The trimmer screw is located on the left-hand side of the condenser. The difference in signal strength when trimmer screw is moved will be more noticeable if a WEAK station is chosen.

### EXTRA LOUDSPEAKERS.

An extra speaker may be connected to this instrument without appreciably reducing volume.

Moving iron or moving coil type may be used, providing that the extra speaker is adjusted to suit a pentode output valve ; Marconiphone Models 141 or 140 are recommended.

In all cases the "extra" must be connected to terminals 3 and 5 on the chassis L.S. panel, and disconnected from the instrument when not in use.

### EXTRA LOUDSPEAKER WIRING.

As speakers are connected directly across the anodes of the output valves, the extra speaker leads must be well insulated. A damp wall is quite sufficient to run down the H.T. battery in a short time if the wire used is not covered with rubber.

## DISMANTLING.

### REMOVAL OF CHASSIS.

1. Remove four knobs from front of cabinet, and loudspeaker leads from back of chassis.

*When reassembling, make sure that ends of screws locate in spindle grooves.*

2. Remove accumulator housing by taking out the 2 screws on battery shelf and 1 screw at back of housing.
3. Remove four screws fastening chassis to battens on underside of chassis.

*Do not forget to replace washers and L.S. earth lead when reassembling. Chassis is now free.*

### REMOVAL OF LOUDSPEAKER AND OUTPUT TRANSFORMER.

1. Remove chassis as previously specified.
2. Take out the 3 cross head screws from front of cabinet.

Lift speaker carefully over battery shelf.

## HOW TO TEST.

Make the following preliminary tests before proceeding with the component and valve tests.

### SPEAKER, OUTPUT TRANSFORMER AND BATTERY TEST.

Turn the switch backwards and forwards from "ON" to "OFF." Assuming that the batteries are O.K. a rustling sound will be heard, providing that pentodes are functioning.

### VS 2 VALVE AND H.F. CIRCUIT TEST.

Temporarily disconnect aerial whilst a powerful local station is being received.

If aerial makes little or no difference to signal strength, the fault will probably lie in that part of the circuit preceding the detector valve.

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**SUITABLE EXTRA SPEAKERS ARE MARCONIPHONE MODELS 140 OR 141**

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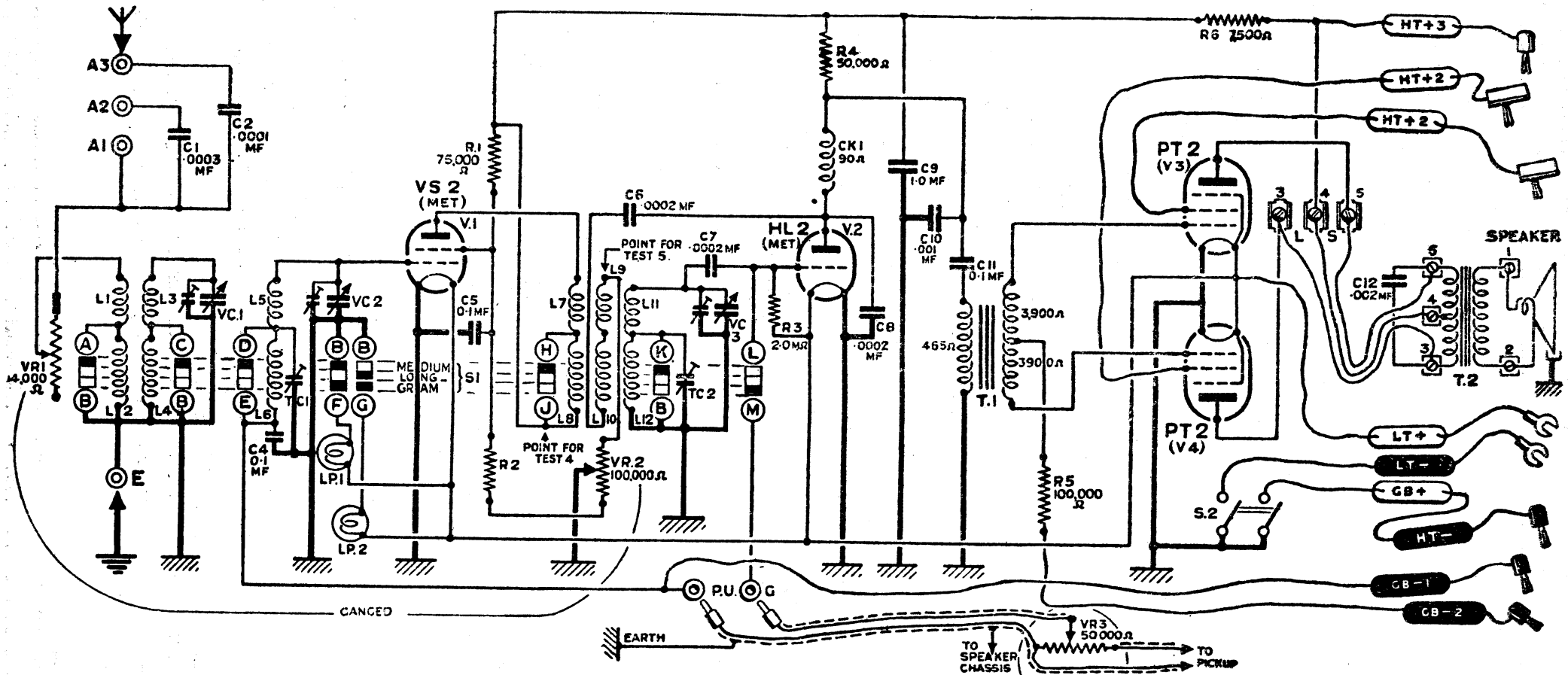


Fig. 1.

## MODEL 260 GIVES SPLENDID GRAMOPHONE REPRODUCTION

A faulty VS 2 or a faulty aerial or earth system will result in weak but undistorted signals. If when aerial is connected to the fixed vanes of VC 3 (see Fig. 2) the strength is commensurate with that of a 2-valve receiver, the trouble can be definitely associated with the VS 2 valve, or the components preceding L 9 and L 10 in the circuit diagram.

### DETECTOR VALVE TEST.

If results are O.K. on "GRAM." but unsatisfactory when aerial is connected to VC 3, the fault will probably lie with coils L 9, L 10, L 11 and/or L 12, or the condensers and resistances associated with that part of the circuit.

### PENTODE VALVE TEST.

Remove each pentode in turn to ascertain that both valves are functioning.

Although the instrument will give fairly satisfactory results with only one output valve, the tone (especially in the lower registers) will be adversely affected.

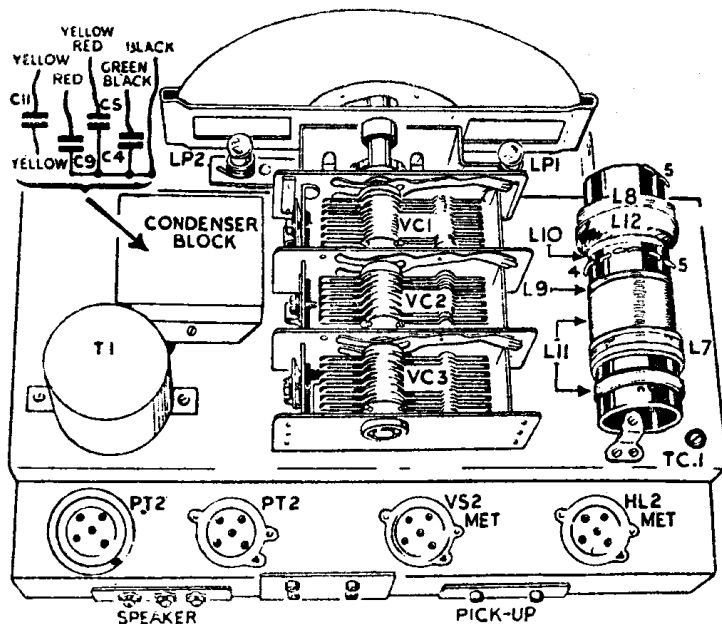


Fig. 2.

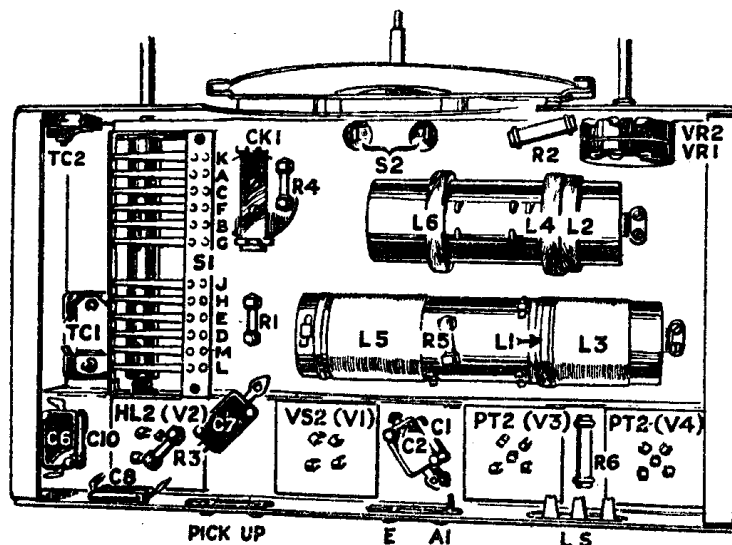


Fig. 3.

**THE MARCONIPHONE MODEL 19 PICK-UP IS RECOMMENDED**

## VALVE TABLE.

All readings are  $\pm 10$  per cent.

		V 1	V 2	V 3 & V 4
FILAMENT CURRENT ... ..		0.1	0.1	0.2 each
	Avo Scale	0.012	0.012	0.012
ANODE FEED, M.A. ... ..		Zero to 1.0	1.5	*1.2 (no signal) each valve
	Avo Scale	1200	1200	1200
ANODE/FRAME VOLTS ... ..		145	60	166
Parts which should be checked if anode voltages and current are abnormal		R 1, R 2, R 6, L 7, L 8 All battery leads and S 2	R 4, R 6, CK 2 All battery leads and S 2	T 2 All battery leads and S 2
	Avo Scale	0.012.	—	0.012.
SCREEN FEED, M.A. ... ..		Zero to 0.6	—	*0.5 (no signal) each valve
	Avo Scale	1200	—	—
SCREEN/FRAME VOLTS ... ..		15 to 50	—	—
Parts which should be checked if anode voltages and current are abnormal		R 1, R 2 All battery leads and S 2	—	—

### TOTAL FILAMENT CURRENT :—

When operated on GRAM (2 lamps) ... .. 0.65 amp.  
When operated on RADIO (1 lamp) ... .. 0.62 amp.

### TOTAL H.T. FEED :—

With volume control at minimum (no signal) ... 6.0 M.A.  
With volume control at maximum (no signal) ... 6.75 M.A.  
With volume control advanced (loud signal peak) 16.0 M.A.

Stress the importance, to your customer, of always connecting the accumulator the right way round, i.e., the L.T. + tag to the red terminal. A wrongly connected accumulator will cause the drain on H.T. current to be increased by approximately 100 per cent.

ALTHOUGH INSTRUMENT WILL OPERATE ON 100 VOLTS, IT IS RECOMMENDED THAT THE H.T. BATTERY BE REPLACED WHEN VOLTAGE HAS FALLEN TO 120.

\* Anode feeds on V 3 and V 4 will vary considerably, depending on valves. Measure at outer L.S. terminals. Total feed of both valves can be checked at centre L.S. terminal.

To ascertain whether the correct bias is being applied to the grid of these valves, a milliampere meter must be inserted in the anode circuit. LOWER THE GRID BIAS WHEN BATTERY VOLTAGE FALLS SO THAT " NO SIGNAL " CURRENT LIMITS ARE NOT EXCEEDED.

**SUPPLY A NEW H.T. WHEN VOLTAGE FALLS BELOW 120**

**COMPONENT TESTS. (See Figs. 2 and 3.)**

Tests 1 to 15 can be made without removing Chassis :—

The chassis must be removed from cabinet for test No. 16 (see page 3).

Test No.	Part No.	Test between—	Ohms.
1	VR 1 ... ..	Sockets A 1 and E (Turn Vol. Control during this test) ...	Zero to 14,000 ohms.
2	L 1 and L 2 ... ..	AE and E sockets— (L 1) switch M.W. (L 1 + L 2) switch L.W. } Volume Control at maximum {	2.5 ohms. 11.0.
3	L 3 and L 4 ... ..	Fixed vanes VC 1 and frame— (L 3) switch M.W. ... .. (L 3 + L 4) switch L.W. ... ..	2.5. 16.0.
4	L 5 and L 6 ... ..	Fixed vanes VC 2 and G.B.— 1 cord— (L 5) switch L.W. ... .. (L 5 + L 6) switch L.W. ... ..	2.5. 16.0.
5	L 7 and L 8 ... ..	Anode lead V 1 and test point 4 (Fig. 1) (L 7) switch M.W. ... .. (L 7 + L 8) switch L.W. ... ..	6.0. 15.0.
6	L 9 and L 10... ..	Test lugs 5 on coil former (see Fig. 1) ... ..	4.0.
7	L 11 and L 12 ... ..	Fixed vanes VC 3 and frame— (L 11) switch M.W. ... .. (L 11 + L 12) switch L.W. ... ..	2.5. 16.0.
8	R 1 ... ..	S.G. socket V 1 and test point 4 (Figs. 1 and 2) ... ..	75,000.
9	R 2, VR 2 ... ..	S.G. socket V 1 and frame (turn Vol. Con. fully anti-clockwise)	10,000.
10	VR 2 ... ..	Test point 5 and frame (turn Vol. Con. during this test) ...	20 to 100,000.
11	R 4, CK 1 ... ..	Anode socket HL 2 and test point 4 ... ..	50,000.
12	R 5 ... ..	G.B.— 2 plug and grid socket of V 3 or V 4 (via half secondary of T 1) ... ..	104,000.
13	R 6 ... ..	Test point 4 and H.T. + 3 plug ... ..	7,500.
14	T 2 ... ..	Primary L.S. tags 3 and 4 on chassis ... .. Primary L.S. tags 4 and 5 on chassis ... .. Secondary. Disconnect speech coil from tag 1 or 2. Measure between 1 and 2 ... ..	400. 400. 1.0.
15	Speech coil ... ..	Tag 1 or 2 and free lead—see test 14 ... ..	4.0.
16	T 1 ... ..	Primary. Joint on yellow lead and frame ... .. Secondary. Grid V 3 and R 5 ... .. Each half. Grid V 4 and R 5 ... ..	400. 3,900. 3,900.

**CARRY A GOOD STOCK OF SPARE H.T.'s (B.550, 16/-)**

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**MODEL 260 IS DESIGNED EXCLUSIVELY FOR MARCONI VALVES**

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**RESISTANCE COLOUR CODE.**

Resistances are coded with three colours :—

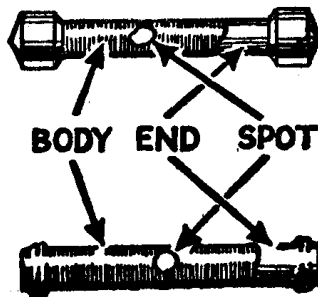
BODY colour indicates 1st figure.

END colour indicates 2nd figure.

SPOT colour indicates additional 0's.

BODY and END Colours.  
(1st and 2nd figures.)

- 0 Black.
- 1 Brown.
- 2 Red.
- 3 Orange.
- 4 Yellow.
- 5 Green.
- 6 Blue.
- 7 Violet.
- 8 Grey.
- 9 White.



SPOT Colours.  
(Additional 0's.)

- .0 Black.
- 0. Brown.
- 00. Red.
- 000. Orange.
- 0,000. Yellow.
- 00,000. Green.

Fig 4.

**Examples :—**

BODY—Brown, END—Blue, SPOT—Red ... ..	1,600 ohms.
Orange (whole resistance) ... ..	33,000 ohms.
BODY—Green, END—Black ... ..	5,000,000 ohms.
BODY—Red, END—Violet, SPOT—Black ... ..	27.0 ohms.

All values must be read in three figures. Thus an all orange resistance equals—orange body (3), orange end (3) and orange tip (000).

**Note.**—An additional white spot may be found on resistances. THIS HAS NO BEARING ON THE RESISTANCE VALUE.

**WIRING COLOUR CODE.**

Black ... ..	Earth.
Red ... ..	H.T. positive.
Green ... ..	Grid.
Blue ... ..	Pick-up.
Brown ... ..	Filaments.
Pink ... ..	Loudspeaker.
Purple ... ..	Aerial.
Yellow ... ..	Anode.
Yellow with red tracer ... ..	Screen of screen grid valve.
Green with black tracer ... ..	Bottom of grid circuit not direct to earth.
Green with white tracer ... ..	Mid position of tuning coil.

**RE-GANGING OF TUNED CIRCUITS.**

Where new coils have been fitted, or H.F. wiring has been disarranged, the trimmers on the ganged condensers VC 1–VC 2 and the L.W. trimmers TC 1 and TC 2 must be adjusted.

It is recommended that a local modulated oscillator be used for this work, as it supplies a signal of constant power, wavelength and note. If, however, an oscillator is not available, the receiver may be ganged on a broadcast signal.

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**ALWAYS STOCK MARCONI VS2, HL2 AND PT2 FOR REPLACEMENTS**

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## MARCONI PT2 VALVES ARE SPECIALLY CODED FOR THIS P.C.P. CIRCUIT

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### GANGING WITH AN OSCILLATOR.

The control switch on the instrument to be re-ganged must be set to medium wave position, and the aerial lead-in (which must be plugged into A 1) loosely coupled to the oscillator.

Set the oscillator to 220 metres and tune in the note on the receiver.

The slotted hexagon head on the trimmer VC 1 should now be adjusted until signal is strongest.

**Do not attempt to Re-gang on a powerful Local Station.** Although signals may be judged aurally, greater accuracy will be obtained by the use of an output meter. This may be an 0-3 A.C. voltmeter connected across the secondary of the output transformer or, as an alternative, an 0-12 D.C. milliammeter may be used if connected in the H.T.+ 3 lead.

Volume control must be advanced to a point where instrument is on the verge of oscillating. Having adjusted V.C. 1 for strongest signal (maximum deflection of needle), V.C. 2 should then be adjusted. Having adjusted VC 1 and VC 2, turn the control knob so that receiver is adjusted for L.W. (long wave) reception, and set the oscillator to 1,200 metres.

The trimmer screw on VC 3 which should be unscrewed, need **not** be adjusted.

The trimmers TC 1 and TC 2 must now be adjusted in the order given until maximum response is obtained. **Do not adjust trimmers of VC 1 and VC 2 on L.W.** Check all adjustment over in the order given, and drop a small quantity of melted wax on the side of each adjusting screw to secure position.

### GANGING ON BROADCAST SIGNALS.

With aerial plugged into A 1, tune in a weak station on about 220 metres. Choose a station which does not fade and, if possible, re-gang during the daytime, when fading is less severe. Adjust trimmers as for oscillator ganging.

## ELECTRICAL INTERFERENCE.

Attention is drawn to the activities of H.M. Post Office and the British Broadcasting Corporation in investigating the sources of interference in the reception of broadcast programmes from electrical sources exterior to radio receivers, such as tramways, electric signs, motors, &c., X-ray apparatus and similar installations.

### WHAT TO DO.

1. Make absolutely certain that the interference is not within the instrument by disconnecting the aerial to see whether the interference continues.
2. Apply to the B.B.C. for a copy of the special questionnaire form issued by them. **Do not** communicate direct with H.M. Post Office.
3. Fill in the form accurately, giving, in addition to the answers required—
  - (a) Name of manufacturer of the receiver.
  - (b) The manufacturer's Cat. No. of the receiver.
4. Send the questionnaire back to the B.B.C., together with **brief** notes as to possible source of interference which your local knowledge may suggest.
5. **Do not** assure your customer that a cure will be effected.
6. The B.B.C./P.O. organisation is one for investigating the **cause** of complaint with a view to ascertaining whether or not a cure can be effected. Such investigations may be both delicate and lengthy, and require both goodwill and tact to bring to a successful conclusion. **Do not** suggest to the owner (if known) of the interfering apparatus that your application to the B.B.C. is in any way a measure of retaliation.
7. It is of the utmost importance that this valuable channel of co-operation with H.M. Post Office and the B.B.C. should not be employed until every possible test has been made to ensure that the interference complained of comes definitely from a source **exterior** to the instrument.

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**ORDINARY PT2 VALVES MUST NOT BE USED**

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**NEVER CONNECT TO DOUBTFUL L.S. EXTENSIONS**

**SPARE PART LIST.**

Part No.	Description.	Parts per Inst.	Finish.	Retail List Price.			Per
				£	s.	d.	
16365	Cabinet ... ..	1	Pol.	2	10	0	Each
	Cabinet back ... ..	1	P.F.	0	1	2	"
	Baffle board with silk... ..	1	Std.	0	2	6	"
9539	Screw No. 4 × 3/8-in. F.H.I., securing baffle ... ..	2	P.F.	0	0	1 1/2	Doz.
13700	Silk for mask ... ..	1	—	0	0	10	Each
14755	Clip for back, R.H. ... ..	2	C.B.	0	0	2	"
14756	Clip for back, L.H. ... ..	2	C.B.	0	0	2	"
8692	Screw, No. 4 × 1/4-in. R.H.I., securing clips ... ..	8	W.N.	0	0	3	Doz.
10475	Felt feet ... ..	4	—	0	0	6	"
16347	Tuning escutcheon ... ..	1	P.F.	0	1	8	Each
10716	Screw No. 2 × 1/4-in. Rsd.H.I., securing escutcheon ... ..	4	Bz.P.	0	0	4	Doz.
16343A	Knob—Volume ... ..	1	Std.	0	0	7	Each
16342A	Knob—Switch ... ..	1	Std.	0	0	7	"
16341A	Knob—Tuning ... ..	1	Std.	0	0	7	"
10674	Grub screw securing knobs ... ..	3	W.N.	0	0	4	Doz.
16276	Knob—battery switch ... ..	1	P.F.	0	0	5	Each
11038	Washer } securing battery switch knob ... ..	1	Cd.P.	0	0	2	Doz.
16277	Nut } ... ..	1	Bz.P.	0	0	8	"
16300B	Radio Unit, for spares see page 12 ... ..	1	Std.	6	10	0	Each.
12614	Screw ... ..	4	W.N.	0	0	3	Doz.
3167	Washer, S.P. } securing radio unit ... ..	4	Std.	0	0	2	"
11092	Clamp plate } ... ..	2	Cd.P.	0	0	2	Each.
16000B	Loudspeaker, complete with output transformer, for spares see below ... ..	1	Std.	2	1	3	"
16020	Screw } securing loudspeaker ... ..	3	Bz.P.	0	0	1	"
14761	Washer } ... ..	3	Bz.P.	0	0	7	Doz.
16751B	Accumulator cover ... ..	1	Std.	0	2	4	Each.
9954	Screw, No. 4 × 3/8-in. R.H.I., securing accumulator cover ... ..	3	W.N.	0	0	2	Doz.
16757	Insulating bush in cover ... ..	1	P.F.	0	0	1	Each.
550	Cleat for leads ... ..	2	Cd.P.	0	0	2	"
8718	Screw, No. 2 × 1/4-in. R.H.I., securing cleats ... ..	2	W.N.	0	0	2	Doz.
16267A	Output lead, with tags and rubber sleeves ... ..	1	Std.	0	1	11	Each.
11802	Tag, on radio unit end ... ..	3	Cd.P.	0	0	3	Doz.
15161	Tag ... ..	1	Cd.P.	0	0	6	"
15159	Tag, connected to terminals 3, 4 and 5 on output transformer ... ..	3	Cd.P.	0	0	3	"
3083	Rubber sleeve ... ..	8	P.F.	0	0	6	"
3084	Rubber sleeve ... ..	2	P.F.	0	0	6	"
16289E	Aerial plug ... ..	1	Mauve	0	0	2	Each.
16289B	Earth plug ... ..	1	Black	0	0	2	"
16289D	P.U. plug ... ..	2	Blue	0	0	2	"
13874	Label "Use Marconi Valves" ... ..	1	—	0	0	2	"
16561	Model and patents label ... ..	1	—	0	0	1	"
16349	Instruction book ... ..	1	—	0	0	6	"
16296A	Pilot lamp—2-volt .06-amp. ... ..	2	Std.	0	0	6	"
	H.T. Battery, 175 v. Type B. 550 ... ..	1	Std.	—	—	—	—
	L.T. accumulator, 2v. 38A.H. (DXG) ... ..	1	Std.	—	—	—	—
	V.S. 2—H.F. valve ... ..	1	Std.	—	—	—	—
	H.L. 2—Detector valve ... ..	1	Std.	—	—	—	—
	P.T. 2—Output valves ... ..	2	Std.	—	—	—	—
16000B	Loudspeaker, complete with T2 ... ..	1	Std.	2	1	3	Each.
16000A	Cone chassis with three fixing lugs, transformer base plate, four studs for securing magnet, and two studs for spider of cone ... ..	1	Cd.P.	0	3	2	Each.
16763A	Magnet ... ..	1	Std.	1	5	0	"
11627	Nut } securing magnet on studs of cone chassis ... ..	4	W.N.	0	0	6	Doz.
3167	Washer, S.P. } ... ..	4	Std.	0	0	2	"
16006B	Speech coil and cone, complete with spider and inner and outer mounting rings ... ..	1	Std.	0	5	0	Each.

**A FAULTY L.S. EXTENSION WILL RUIN THE H.T. BATTERY**

## REDUCE THE G.B. VOLTAGE AS THE H.T. RUNS DOWN

### SPARE PART LIST—continued.

Part No.	Description.	Parts per Inst.	Finish.	Retail List Price.	Per
11636	Nut	2	W.N.	£ 0 0 4½	Doz.
6314	Washer	2	W.N.	0 0 2	"
1883	Spring washer	2	W.N.	0 0 3	"
16007	Cardboard washer	2	P.F.	0 0 1	"
16012	Felt	1	P.F.	0 0 2	Each.
	(Mounting ring of cone and felt are secured to cone chassis with durofix)				
10616D	Output transformer T2, complete	1	Std.	0 10 6	"
16013A	Terminal panel on transformer with five tags and screws	1	Std.	0 1 6	"
12629	Terminal screw on panel	5	W.N.	0 0 2	Doz.
15159	Tag	1	Cd.P.	0 0 3	"
8777	Screw, P.K., securing panel	2	Std.	0 0 6	"
15719G	.002 mfd. condenser soldered to tags 3 and 5	1	Std.	0 1 1	Each.
12619	Screw, P.K., securing transformer to base plate on cone chassis	2	Std.	0 0 6	Doz.
16024	Dust bag	1	P.F.	0 1 0	Each.
<b>INDUCTANCES.</b>					
11021A	{ L 1—M.W. aerial coil L 3—M.W. link coil L 5—M.W. grid coil } the longer coil assembly on underside of chassis	1	Std.	0 4 6	Each.
16032A	{ L 2—L.W. aerial coil L 4—L.W. link coil L 6—L.W. grid coil } the shorter coil assembly next to 11021A	1	Std.	0 3 8	"
16033A	{ L 7—M.W. anode coil L 8—L.W. anode coil L 9—M.W. reaction coil L 10—L.W. reaction coil L 11—M.W. grid coil L 12—L.W. grid coil } coil assembly on top of chassis	1	Std.	0 5 8	"
1940C	CK 2—H.F. choke on underside of chassis near S1	1	Std.	0 2 1	"
16076D	T 1—Intervalve transformer	1	Std.	0 12 0	"
10616D	T 2—Output transformer, on loudspeaker	1	Std.	0 10 6	"
<b>CONDENSERS.</b>					
15719D	C 1—0.0003 mfd.	1	Std.	0 0 9	"
15719B	C 2—0.0001 mfd.	1	Std.	0 0 9	"
16294B	{ C 4—0.1 mfd. C 5—0.1 mfd. C 9—1.0 mfd. C 11—0.1 mfd. } block condenser on top of chassis	1	Std.	0 5 11	"
15719C	C 6—0.0002 mfd.—at end of chassis near V 2 valveholder	1	Std.	0 0 9	"
15719C	C 7—0.0002 mfd.—between V 1 and V 2 valveholders	1	Std.	0 0 9	"
15719C	C 8—0.0002 mfd.—on back flange of chassis near V 2 valveholder	1	Std.	0 0 9	"
15719F	C 10—0.001 mfd.—with C 6	1	Std.	0 0 9	"
15719C	C 12—0.002 mfd.—on T 2 (not included in 14500B)	1	Std.	0 0 9	"
16240B	TC 1—trimmer condenser on underside of chassis near S 1	1	Std.	0 1 4	"
16240B	TC 2—trimmer condenser on front flange of chassis	1	Std.	0 1 4	"
13639D	{ VC 1 VC 2 VC 3 } three gang variable condenser with trimmers	1	Std.	0 18 6	"
<b>RESISTANCES.</b>					
5787U	R 1—75,000 ohm—suspended on wiring between S 1 and M.W. tuning coils	1	Std.	0 0 9	"
10451H	R 2—10,000 ohm—soldered to VR 2	1	Std.	0 0 10	"
5787T	R 3—2 megohm—on V 2 valveholder	1	Std.	0 0 9	"

**ALWAYS SWITCH OFF BEFORE ADJUSTING GRID BIAS**

## H.T. CURRENT IS PROPORTIONAL TO STRENGTH OF RECEPTION

### SPARE PART LIST—*continued.*

Part No.	Description.	Parts per Inst.	Finish.	Retail List Price.	Per
<b>RESISTANCES—<i>continued.</i></b>					
5787P	R 4—50,000 ohm—on CK 2 ... ..	1	Std.	0 0 9	Each.
5787Q	R 5—100,000 ohm—on M.W. coil former ... ..	1	Std.	0 0 9	"
10451G	R 6—7,500 ohm—between V 3 and V 4 valveholders ... ..	1	Std.	0 0 10	"
6000AN	{ VR 1—14,000 ohm } volume control ... ..	1	Std.	0 10 0	"
	{ VR 2—100,000 ohm }				
<b>RADIO UNIT.</b>					
16300B	Radio Unit, complete ... ..	1	Std.	6 10 0	"
16300A	Chassis, bare ... ..	1	Cd.P.	0 3 5	"
10545	Valve panel ... ..	4	P.F.	0 0 2	"
10546	Valve leg clip ... ..	18	P.F.	0 0 7	Doz.
13703	Valve panel cover ... ..	4	P.F.	0 0 2	Each
10547	Valve panel cover, transparent ... ..	4	P.F.	0 0 2	"
13804	Rivet securing above valveholder parts to chassis ... ..	16	P.F.	0 0 3	Doz.
<b>ON BACK OF CHASSIS.</b>					
16072A	Loud speaker terminal panel with three tags and screws... ..	1	Std.	0 0 7	Each.
14511	Nut ... ..	3	W.N.	0 0 4	Doz.
14512	Tag ... ..	3	Cd.P.	0 0 5	"
12629	Screw ... ..	3	W.N.	0 0 2	"
16074A	Aerial and earth terminal panel, with four sockets and tags ... ..	1	Std.	0 0 7	Each.
16073A	Pick-up terminal panel with two sockets and tags ... ..	1	Std.	0 0 4	"
13803	Rivet securing terminal panels to back flange of chassis... ..	7	P.F.	0 0 3	Doz.
<b>ON TOP OF CHASSIS.</b>					
16033A	L 7, L 8, L 9, L 10, L 11 and L 12 coils on former, complete with fixing brackets ... ..	1	Std.	0 5 8	Each.
12619	Screw, P.K., securing brackets to coil former ... ..	2	Std.	0 0 6	Doz.
12619	Screw, P.K., securing brackets to chassis ... ..	4	Std.	0 0 6	"
13639D	VC 1, VC 2 and VC 3—three gang variable condenser with trimmers ... ..	1	Std.	0 18 6	Each.
13658	Mica for trimmer condenser ... ..	3	P.F.	0 0 7	Doz.
13672	Adjusting screw for trimmer condenser ... ..	3	W.N.	0 0 5	"
13659	Insulating washer for adjusting screw ... ..	3	P.F.	0 0 5	"
13657	Trimmer plate ... ..	3	Cd.P.	0 1 4	"
13660	Tag on opposite side of condenser to trimmer plate ... ..	3	Cd.P.	0 0 4	"
13246	Screw, securing trimmer plate, tag and fixed vanes of condenser to insulators ... ..	12	W.N.	0 0 3	"
13661	Earth spring for moving vane ... ..	3	Cd.P.	0 0 1½	Each.
13662	Set screw securing moving vanes to spindle ... ..	6	Cd.P.	0 0 4	Doz.
13655	Ball race screwed at front end of condenser ... ..	1	W.N.	0 0 1½	Each.
13656	Lock nut for ball race ... ..	1	W.N.	0 0 2	"
249	Ball, ten in each ball race ... ..	20	P.F.	0 0 1	Doz.
11211	Screw ... ..	3	W.N.	0 0 8	"
12442	Washer, S.P. } securing condenser gang to chassis ... ..	3	Std.	0 0 2	"
16286B	Condenser drive bracket complete with drive spindle and battery switch ... ..	1	Std.	0 2 7	Each.
16286A	Condenser drive bracket with bush ... ..	1	Cd.P.	0 0 9	"
16282A	Contact strip with two contacts for battery switch ... ..	1	Std.	0 0 3	"
211	Screw, P.K., securing contact strip to bracket ... ..	2	W.N.	0 0 6	Doz.
11012A	Drive spindle, with rubber driving wheel ... ..	1	Std.	0 0 8	Each.
11041	Split ring securing drive spindle ... ..	1	P.F.	0 0 6	Doz.
16274A	Switch spindle complete with contact spring ... ..	1	Std.	0 0 4	Each.

**DO NOT USE MORE VOLUME THAN IS NECESSARY**

**NEVER TUNE WITH THE VOLUME CONTROL AT MAXIMUM**

**SPARE PART LIST—continued.**

Part No.	Description.	Parts per Inst.	Finish.	Retail List Price.	Per
<b>ON TOP OF CHASSIS—continued.</b>				<b>£ s. d.</b>	
	Condenser drive bracket— <i>continued.</i>				
16280	Thrust bracket ... ..	1	Cd.P.	0 0 2	Each.
3165	Washer, S.P. } securing thrust bracket to bush on con-	2	Std.	0 0 2	Doz.
11227	Screw } denser drive bracket	2	W.N.	0 0 6	"
11033	Clamping plate } securing condenser drive bracket assembly	2	Cd.P.	0 0 2	Each.
3166	Washer, S.P. } (16286B) to front of three gang condenser	4	Std.	0 0 2	Doz.
11219	Screw	4	W.N.	0 0 3	"
11034C	Scale support and scale complete ... ..	1	Std.	0 2 0	Each.
11025	Grub screw securing scale support to spindle of three gang				
	condenser ... ..	2	W.N.	0 0 6	Doz.
16299A	Dial guide with felt ... ..	1	Std.	0 0 7	Each.
11620	Screw P.K. No. 4 × ¼-in. Countersunk head, securing dial guide				
	to condenser drive bracket ... ..	2	Std.	0 0 8	Doz.
16285A	Lamp holder and bracket complete ... ..	2	Std.	0 0 6	Each.
211	Screw, P.K., securing lamp holder bracket to condenser drive				
	bracket ... ..	4	Std.	0 0 6	Doz.
16294B	<b>C 4, C 5, C 9 and C 11</b> in one condenser block ... ..	1	Std.	0 5 11	Each.
12619	Screw, P.K., securing condenser block to chassis, near condenser				
	gang ... ..	2	Std.	0 0 6	Doz.
16076D	<b>T 1</b> Intervalve transformer ... ..	1	Std.	0 12 0	Each.
12619	Screw, P.K., securing intervalve transformer to chassis, near				
	condenser block ... ..	2	Std.	0 0 6	Doz.
<b>UNDERSIDE OF CHASSIS.</b>					
6000AN	<b>VR 1 and VR 2—Volume control</b> ... ..	1	Std.	0 10 0	Each.
4400	Nut, securing volume control ... ..	1	W.N.	0 0 2	"
13978	Washer, insulating, between volume control and front flange of				
	chassis ... ..	1	P.F.	0 0 9	Doz.
10451H	<b>R 2—10,000 ohm resistance, soldered to VR 2</b> ... ..	1	Std.	0 0 10	Each.
16032A	<b>L 2, L 4 and L 6</b> on former complete with fixing brackets				
	Screw, P.K., securing fixing brackets to chassis ... ..	4	Std.	0 0 6	Doz.
12619	<b>L 1, L 3 and L 5</b> on former complete with fixing brackets				
	Screw, P.K., securing fixing brackets to chassis ... ..	4	Std.	0 0 6	Doz.
11021A	<b>R 5—100,000 ohm resistance, soldered to two tags on 11021A</b>				
12619	coil former ... ..	1	Std.	0 0 9	Each.
5787Q	<b>R 6—7,500 ohm resistance between V 3 and V 4 valveholders</b> ...	1	Std.	0 0 10	"
10451G	<b>C 1—0.0003 mfd. condenser</b> ... ..	1	Std.	0 0 9	"
15719D	<b>C 2—0.0001 mfd. condenser</b> ... ..	1	Std.	0 0 9	"
15719B	Rivet securing C 1 and C 2 to chassis between V 1 and V 3 valve-				
13809	holders ... ..	2	Std.	0 0 2	Doz.
15719C	<b>C 7—0.0002 mfd. condenser</b> ... ..	1	Std.	0 0 9	Each.
11017	Distance piece } securing C 7 to chassis between V 1 and V 2				
	Rivet } valveholders	1	P.F.	0 0 3	Doz.
13809	<b>R 3—2-megohm resistance soldered to grid and L.T. Positive</b>				
5787T	fil sockets of V 2 valveholder ... ..	1	Std.	0 0 9	Each.
15719C	<b>C 8—0.0002 mfd. condenser</b> ... ..	1	Std.	0 0 9	"
13806	Rivet securing C 8 to back flange of chassis ... ..	2	Std.	0 0 4	Doz.
5787U	<b>R 1—75,000 ohm resistance suspended on wiring between L 1,</b>				
	<b>L 3 and L 5 coil former and changeover switch</b> ... ..	1	Std.	0 0 9	Each.
1940C	<b>CK 2—H. F. Choke</b> ... ..	1	Std.	0 2 1	"
8602	Screw, No. 4 × ⅜-in. R.H.I., securing choke to chassis, near				
	switch ... ..	1	W.N.	0 0 2	Doz.
5787P	<b>R 4—50,000 ohm resistance soldered to tag on CK 2</b> ... ..	1	Std.	0 0 9	Each.

**THE BUILT-IN SPEAKER MUST NOT BE DISCONNECTED**

**SWITCH OFF BEFORE DISCONNECTING ACCUMULATOR**

**SPARE PART LIST—continued.**

Part No.	Description.	Parts per Inst.	Finish.	Retail List Price.	Per
<b>UNDERSIDE OF CHASSIS—continued.</b>					
				<b>£ s. d.</b>	
11056D	S 1—Changeover switch ... ..	1	Std.	0 8 6	Each.
11051E	Rotor, with three short contacts ... ..	1	Std.	0 1 9	"
11051D	Rotor, with one short contact, one medium contact and one long contact ... ..	1	Std.	0 1 1	"
1039	Washer } on rear end of spindle ... ..	2	Cd.P.	0 0 2	Doz.
12567	Spring } ... ..	1	P.F.	0 0 6	"
11063	Collar, tapped, between rotors on spindle ... ..	1	Cd.P.	0 0 2	Each.
11059	Locating cam ... ..	1	Cd.P.	0 0 3	"
10674	Grub screw securing collar and cam to spindle ... ..	2	W.N.	0 0 4	Doz.
9016	Spring for locating arm ... ..	1	P.F.	0 0 1	Each.
11062	Guard strip, holds ends of contacts ... ..	1	P.F.	0 0 2	"
211	Screw, P.K., securing guard strip ... ..	3	Std.	0 0 6	Doz.
11054A	Contact strip, with 12 contacts ... ..	1	Std.	0 3 5	Each.
211	Screw, P.K., securing contact strip ... ..	3	Std.	0 0 6	Doz.
3166	Washer, S.P. } securing S 1 switch ... ..	1	Std.	0 0 2	"
12619	Screw, P.K. } ... ..	4	Std.	0 0 6	"
15159	Tag } ... ..	1	Cd.P.	0 0 3	"
16240B	TC 2—trimmer condenser ... ..	1	Std.	0 1 4	Each.
11328	Screw } securing TC 2 to front flange of chassis... ..	2	W.N.	0 0 2	Doz.
3165	Washer, S.P. } ... ..	2	Std.	0 0 2	"
11629	Nut } ... ..	2	W.N.	0 0 6	"
16240B	TC 1—trimmer condenser ... ..	1	Std.	0 1 4	Each.
11328	Screw } securing TC 1 to chassis ... ..	2	W.N.	0 0 2	Doz.
3165	Washer, S.P. } ... ..	2	Std.	0 0 2	"
11629	Nut } ... ..	2	W.N.	0 0 6	"
11743	Adjusting screw on TC 1 and TC 2... ..	2	P.F.	0 0 8	"
15719C	C 6—0.0002 mfd. condenser ... ..	1	Std.	0 0 9	Each.
15719F	C 10—0.001 mfd. condenser ... ..	1	Std.	0 0 9	"
13809	Rivet securing C 6 and C 10 to end of chassis near V 2 valve-holder ... ..	2	P.F.	0 0 2	Doz.
<b>LEADS, INSULATING BUSHES.</b>					
16302A	Battery leads, complete set with plugs, tags and labels ... ..	1	Std.	0 3 7	Each.
8519	L.T. tag ... ..	2	Cd.P.	0 0 1	"
16288A	Plug, red ... ..	1	Std.	0 0 2	"
16288B	Plug, black ... ..	3	Std.	0 0 2	"
15453A	Lead label L.T. positive ... ..	1	Std.	0 0 1	"
15453B	Lead label L.T. negative ... ..	1	Std.	0 0 1	"
15453C	Lead label H.T. negative ... ..	1	Std.	0 0 1	"
15453F	Lead label H.T. positive 3 ... ..	1	Std.	0 0 1	"
15453G	Lead label G.B. positive ... ..	1	Std.	0 0 1	"
15453H	Lead label G.B. negative 1 ... ..	1	Std.	0 0 1	"
15453J	Lead label G.B. negative 2 ... ..	1	Std.	0 0 1	"
12613	Cleat for battery leads ... ..	1	Cd.P.	0 0 1	"
11228	Screw } securing cleat to back flange of chassis ... ..	1	W.N.	0 0 4	Doz.
11629	Nut } ... ..	1	W.N.	0 0 6	"
3165	Washer, S.P. } ... ..	2	Std.	0 0 2	"
16301A	Pentode screen lead with plug and label ... ..	2	Std.	0 0 7	Each.
16287A	Plug, red ... ..	2	Std.	0 0 2	"
15453E	Lead label, H.T. positive 2 ... ..	2	Std.	0 0 1	"
3083	Rubber sleeve, small } on leads ... ..	21	P.F.	0 0 6	Doz.
3084	Rubber sleeve, large } ... ..	8	P.F.	0 0 6	"
16754	Insulating bush, small ... ..	9	P.F.	0 0 1	Each.
16756	Insulating bush, large ... ..	4	P.F.	0 0 1	"
1993	Three point tag for earthing leads to chassis ... ..	2	Cd.P.	0 0 6	Doz.
16296A	Pilot lamp 2-v. 0.06-amp. Constant burning type ... ..	2	Std.	0 0 6	Each.

**THE EARTH IS AS IMPORTANT AS THE AERIAL**

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**ALWAYS GIVE FULL DETAILS WITH ORDERS FOR SPARE PARTS**

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**KEY TO ABBREVIATIONS USED IN "FINISH" COLUMN.**

Black Nickel ...	...	...	...	...	...	...	...	...	B.N.
Bronze Polish	...	...	...	...	...	...	...	...	Bz.P.
Bronze Spray	...	...	...	...	...	...	...	...	Bz.Sp.
Cadmium Plate	...	...	...	...	...	...	...	...	Cd.P.
Copper Plate...	...	...	...	...	...	...	...	...	C.P.
Plain Finish ...	...	...	...	...	...	...	...	...	P.F.
Standard	...	...	...	...	...	...	...	...	Std.
White Nickel	...	...	...	...	...	...	...	...	W.N.
Carbon Black	...	...	...	...	...	...	...	...	C.Blk.

In order to expedite delivery of spare part orders, please quote :—

1. Model number and unit type number.
2. Spare part number and description as given in the list.
3. Quantity required.

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**KEEP THESE MANUALS IN A PROPER BINDING CASE**

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# ***Marconi 260***

## ***Sales Points***

1. Reproduction equalling the best mains receiver—Marconi P.C.P. output to matched M.C. speaker.
2. Volume enough for a small hall—1.3 watts undistorted maximum.
3. Marconi Parallel Conductance Principle—uniform perfection of tone at all volumes up to full output.
4. Small current consumption—average H.T. current only 9 M.A.
5. High and constant selectivity from balanced band-pass circuits.
6. Twin station scales, illuminated when in use.
7. Splendid record reproduction with a Marconiphone pick-up.
8. Provision for extra H.R. or L.R. speakers.