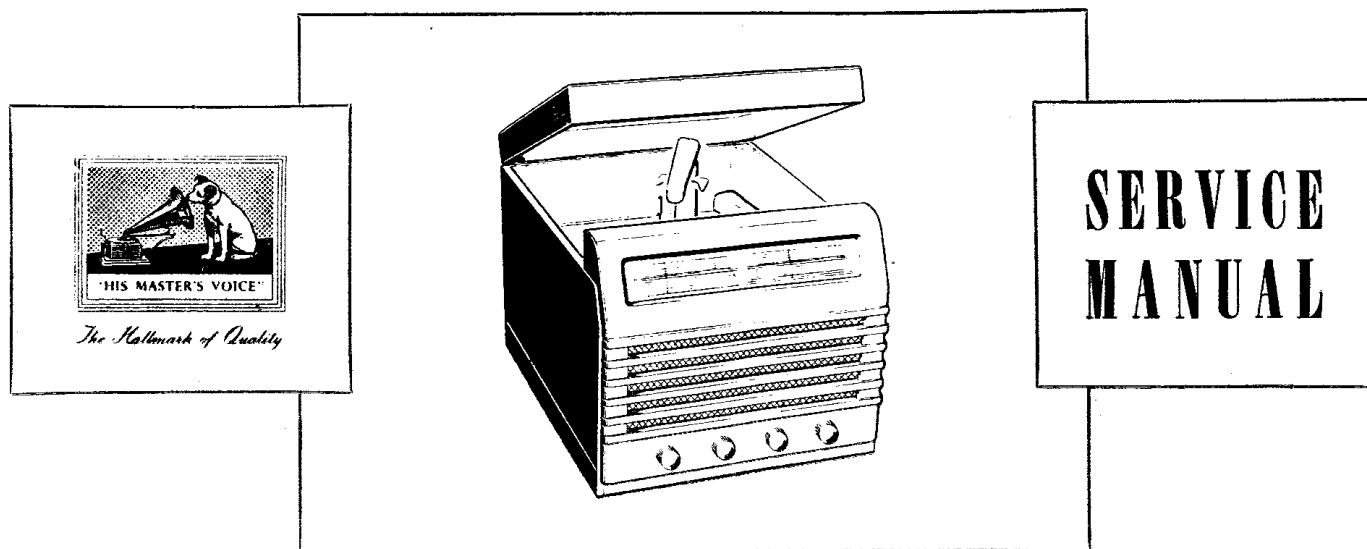


# "HIS MASTER'S VOICE"



## MODEL 1615 5-VALVE TABLE AUTO-RADIOGRAM FOR A.C. MAINS

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# MODEL 1615

## SPECIFICATION

<b>Physical.</b>			
Height .. ..	13 inches (33·02 cms.)	} Overall.	<b>Scale Lamps and Fuses.</b>
Depth .. ..	18½ inches (46·99 cms.)		Two lamps—6·8 volt, 0·3 amps.
Width .. ..	16¼ inches (41·275 cms.)		Two fuses—1·0 amp., Cartridge type.
<b>Mains Supply.</b>			<b>Loudspeaker.</b>
195—255 volts, 50 c.p.s. A.C.			The loudspeaker is a 10½-inch elliptical cone permanent magnet moving coil type.
<b>Consumption.</b>			D.C. resistance of loudspeaker speech coil 3 ohms.
Radio—40 watts	} approximately.		Impedance at 1,000 c.p.s., 5 ohms.
Gram—55 watts			
<b>Rated Output.</b>			<b>External Loudspeaker.</b>
4 watts maximum.			An additional low resistance loudspeaker may be connected to the "EXT. L.S." socket at the rear of the receiver. A switch plug is provided and allows either loudspeaker to be operated singly or both together.
<b>Intermediate Frequency.</b>			<b>Automatic Record Player.</b>
470 kc/s.			The Automatic Record Player 45000AG plays one side of each of up to ten 10-inch or 12-inch records unmixed.
<b>Wave Ranges.</b>			<b>Pick-Up.</b>
L.W. ..	900—2,000 metres (333·4—150 kc/s).		The No. 13 lightweight pick-up is used. D.C. resistance of the coil is 1·3 ohms.
M.W. ..	187—575 metres (1,604—521·7 kc/s).		<b>Motor.</b>
S.W. ..	16·3—52 metres (18·4—5·8 Mc/s).		No. 2 Synchronous (Rim Drive).
<b>Valves.</b>			
V1 X78	Frequency Changer.		
V2 W77	I.F. Amplifier.		
V3 DH77	Detector A.G.C. and A.F. Amplifier.		
V4 N78	Output.		
V5 U78	Rectifier.		

## INSTALLING

### Transit Packing.

It is essential that all transit packing is removed before connecting the instrument to the mains supply.

1. Remove the four red-headed screws from the corners of the mechanism plate and replace with the chromium screws and leather washers contained in the cotton bag.
2. Remove the packing and tapes securing the record retaining arm and the pick-up.
3. Remove the red-headed screw on the mechanism plate adjacent to the turntable rim.

*Note—The transit packing should be kept in case the instrument is to be transported at some future occasion.*

### Aerial and Earth.

Although the receiver will operate on an inside aerial a high outside aerial is essential for the best reception.

It is essential that an efficient earth is provided. Never use a telephone earth or a hot water or gas pipe as an earth.

The aerial and earth leads should be fitted with the two plugs supplied.

### Mains Supply.

The receiver may be adjusted to operate on A.C. mains supplies of 195—255 volts, 50 c.p.s.

To adjust the mains input, ensure that the instrument is completely disconnected from the supply and proceed as follows:—

- (a) Remove the back panel (two screws).
- (b) Insert the Mains Voltage Adjustment Plug into the socket with the markings nearer to that of the supply. (The plug is situated on the L.H.S. of the chassis.) Do not connect the mains supply until the remaining adjustments have been completed.

### Final Connections.

Make sure that the valves are firmly inserted in their correct positions and the fuses firmly held in their clips.

*NOTE.—When removing or refitting a valve, always use a vertical movement and on no account use force. As these valves have glass bases, any excessive sideways movement or rough handling may fracture the glass surrounding the pins and the valve will fail. Replace the back panel and insert Aerial and Earth plugs. Ensure that the loudspeaker plug is in the "INT" socket.*

Connect a suitable plug to the mains lead and plug in to the supply socket.

## DISMANTLING

Before attempting any dismantling ensure that the instrument is completely disconnected from the mains supply.

### Removal of Chassis.

Before attempting removal of chassis remove the auto-mechanism as follows:—

1. Tie the pick-up arm to its rest position.
2. Remove the four screws securing the auto-mechanism.
3. Unsolder the motor mains lead from the transformer tags.
4. Unsolder pick-up leads from the matching unit tag panel.
5. Unsolder earthing leads from motor.

6. Lift out auto-mechanism.
7. Remove four control knobs screw fixing.
8. Disconnect loudspeaker and pick-up plugs and unclean leads from cabinet and unsolder the aerial and earth lead from the A.E. tag panel.
9. Remove the wooden panel concealing the scale lamps and disconnect scale lamps and release the two drive cords from clip.
10. Unsolder loudspeaker leads from loudspeaker.
11. Unscrew 6 hexagonal screws securing chassis and two screws securing the On/Off and Tone controls on the cabinet from underneath.
12. Withdraw chassis.

## I.F. AND R.F. ALIGNMENT

### General.

If the I.F. circuits have been disturbed, complete I.F. and R.F. alignment must follow. Either S.W., M.W. or L.W. bands can be reganged without affecting the others.

The oscillator tracks at a higher frequency on all wavebands.

Whilst ganging, the input to the receiver must be progressively reduced as the circuits are brought into line so that the output does not exceed 500 mW (1.58 v. across the speech coil).

### Short Waves.

Set the Volume and Tone controls to maximum position and Waveband switch as required. Inject test signal into aerial and earth sockets, via a S.W. dummy aerial.

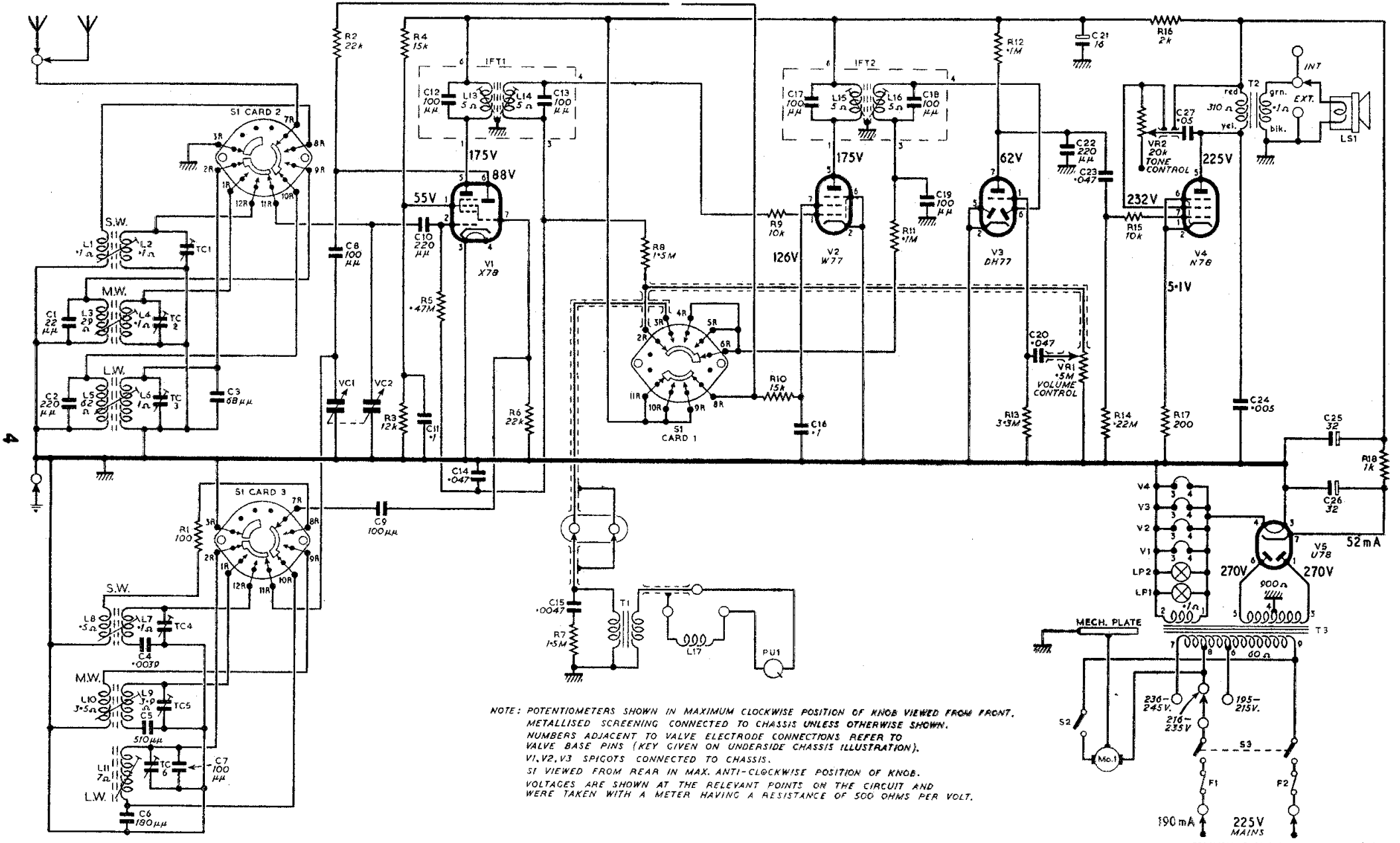
Waveband Switch.	Op. No.	Set Gang. ..	Tune Signal Generator to m.                      Mc/s.		Operation.
S.W.    ..    ..	1	Maximum ..	51.7	5.8	Adjust L7 for maximum output. Adjust TC4 for maximum output. Adjust L2 for maximum output. Adjust TC1 for maximum output. Repeat operations 1 to 4.
	2	Minimum ..	16.3	18.4	
	3	Tune in ..	50	6	
	4	Tune in ..	16.8	17.8	
	5	—	—	—	

### Medium Waves.

Controls as before, but with M.W. dummy aerial.

Waveband Switch.	Op. No.	Set Gang.	Tune Signal Generator to m.                      kc/s.		Operation.
M.W.    ..    ..	1	Maximum ..	575	522	Adjust L9 for maximum output. Adjust TC5 for maximum output. Adjust L4 for maximum output. Adjust TC2 for maximum output. Repeat operations 1 to 4.
	2	Minimum ..	186.9	1,605	
	3	Tune in ..	510	588	
	4	Tune in ..	210	1,427	
	5	—	—	—	

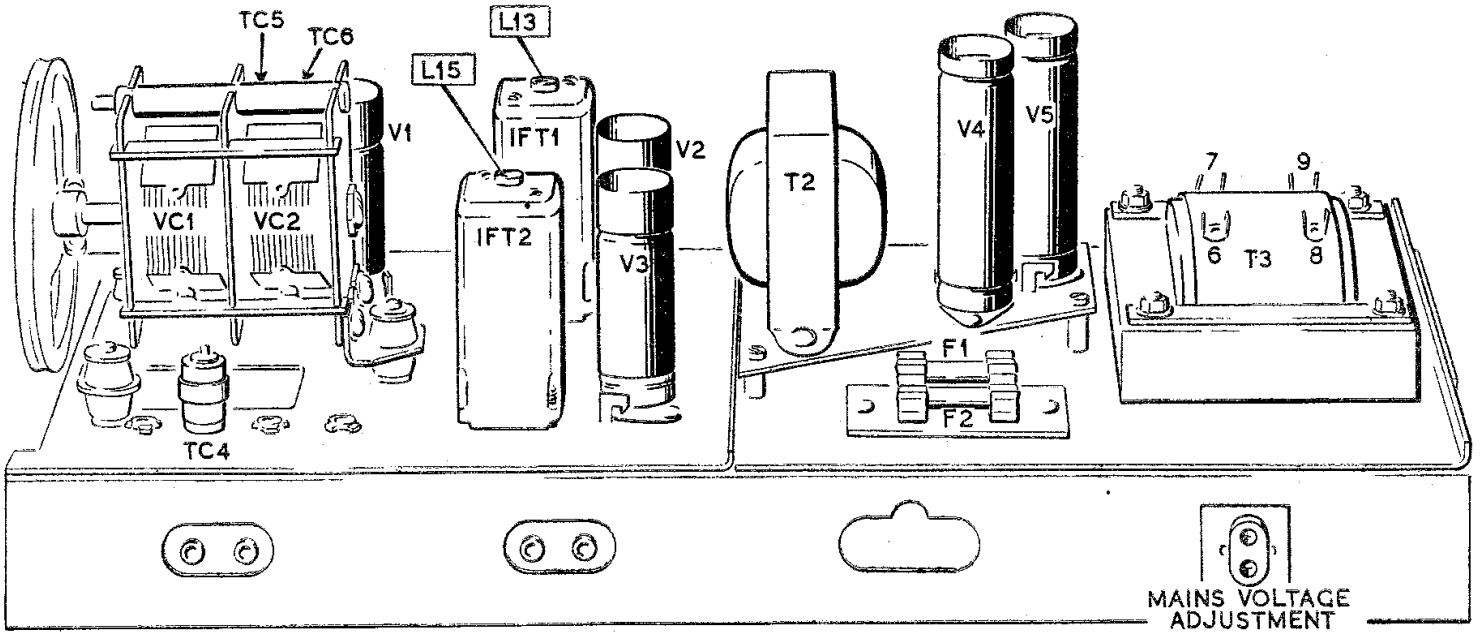
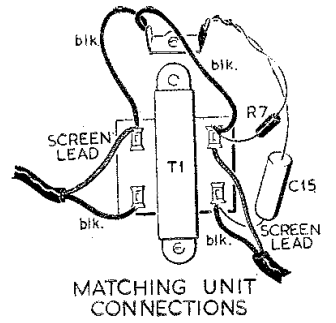
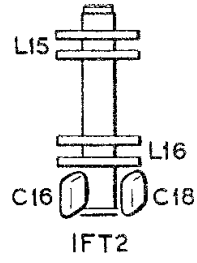
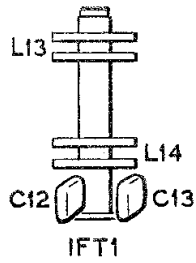
R	1,2	3	4,5	6	7	8	9,10	11	12,13	14,15	16	17	18	R													
C	1,2	4,5,6	7,3	8	9	10	11	12	14	15,13	17	16	18,19	20	22,23,21	27	24	25,26	C								
MISC.	L1	TO	LH	TC1	TO	TC6	VC1	VC2	L13	VI, IFT1	L14	T1	L17	PU1	V2, L15	IFT2	L16	V5	VR1, S2	Mo.1	VR2	V4, F1	S3, T2	F2	V5, T3	L91	MISC.



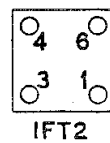
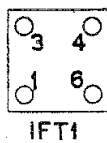
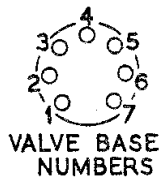
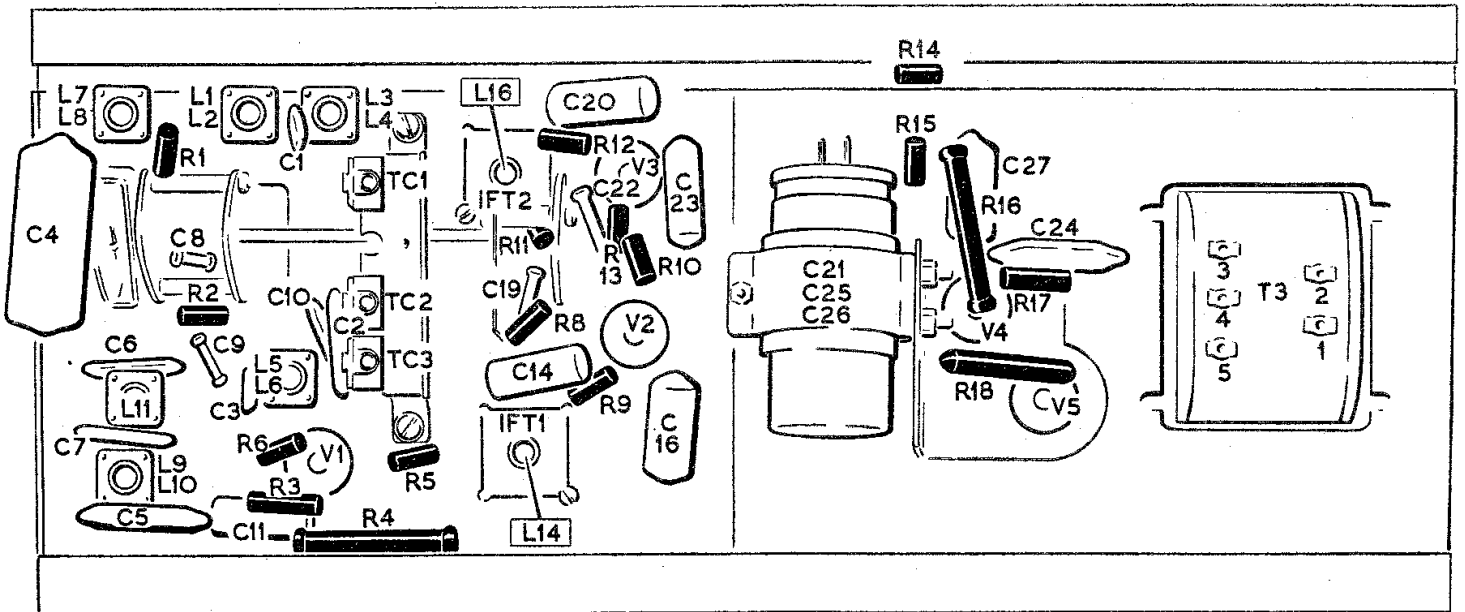
NOTE: POTENTIOMETERS SHOWN IN MAXIMUM CLOCKWISE POSITION OF KNOB VIEWED FROM FRONT. METALLISED SCREENING CONNECTED TO CHASSIS UNLESS OTHERWISE SHOWN. NUMBERS ADJACENT TO VALVE ELECTRODE CONNECTIONS REFER TO VALVE BASE PINS (KEY GIVEN ON UNDERSIDE CHASSIS ILLUSTRATION). V1, V2, V3 SPIGOTS CONNECTED TO CHASSIS. S1 VIEWED FROM REAR IN MAX. ANTI-CLOCKWISE POSITION OF KNOB. VOLTAGES ARE SHOWN AT THE RELEVANT POINTS ON THE CIRCUIT AND WERE TAKEN WITH A METER HAVING A RESISTANCE OF 500 OHMS PER VOLT.

NOTE. The D.C. resistance of L4 and L6 should read 3.5 ohms and 2.5 ohms respectively. Never attempt to measure the D.C. resistance of T1.

MODEL 1615



TOP-SIDE CHASSIS VIEW



UNDER-SIDE CHASSIS VIEW

**Long Waves.**

Controls as before, but with L.W. dummy aerial.

Waveband Switch.	Op. No.	Set Gang.	Tune Signal Generator to		Operation.
			m.	kc/s.	
L.W. . . . .	1	Maximum ..	2,000	150	Adjust L11 for maximum output.
	2	Minimum ..	901	333	Adjust TC6 for maximum output.
	3	Tune in ..	1,850	162	Adjust L6 for maximum output.
	4	Tune in ..	1,000	300	Adjust TC3 for maximum output.
	5	Tune in ..	1,000	300	Repeat operations 1 to 4.

## SYNCHRONOUS MOTOR

**Electrical Data.**

Voltage—216—235 A.C., 50 cycles only.

Current, maximum—35 mA at 225 volts.

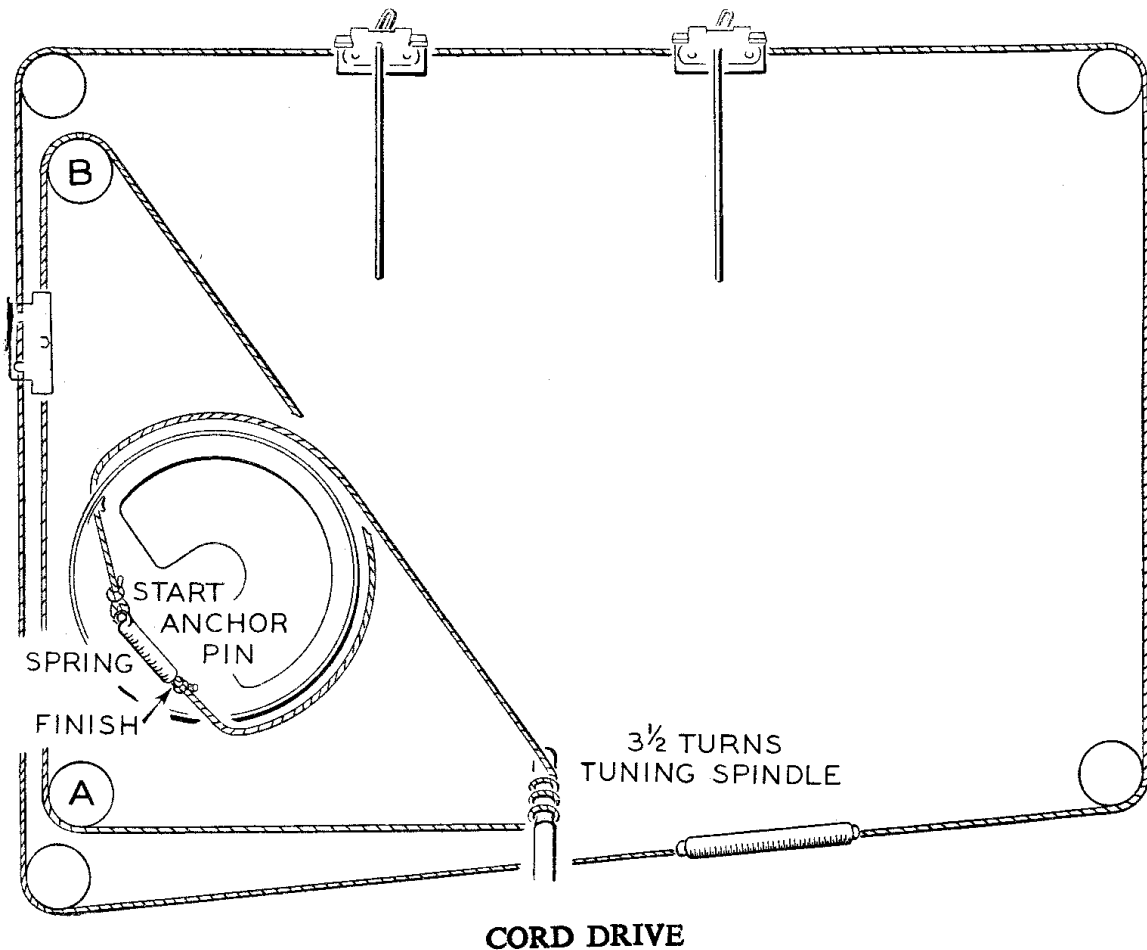
Wattage, maximum—8 watts at 225 volts.

For Technical Information relating to the complete Automatic Record Changer apply for a separate Service Manual.

## CALIBRATION

Replace chassis in cabinet and check calibration at about the middle of the tuning scale on a station of known

wavelength. Adjust pointers to give best compromise on all wavebands, if necessary.



# CAPACITOR AND POINTERS DRIVE

Use only correct nylon cord 6370 × 0012, 38 inches on the gang capacitor drive and 51 inches on the pointer drive.

1. Form a loop in one end of the 38-inch cord with an opening of approximately  $\frac{1}{8}$ -inch in diameter and assemble on anchor pin.
2. Wind cord round spindle and pulleys as shown on diagram.

3. Form a loop in one end of the 51-inch cord and secure to one end of tension spring.

4. Wind cord on pulleys as shown in diagram.

5. Fix the pointers and connect the two cords with the cleat provided.

*NOTE.*—The knots, to prevent slipping, should be tied as reef knots and secured with shellac.

## SPARE PARTS LIST

Ref.	Description.	Part No.	Ref.	Description.	Part No.
<b>RESISTORS</b>					
R1	100 ohms, ± 5%	33360G	C25	32 mf., 350 v., Electrolytic	} See C21
R2	22,000 ohms	33363DW	C26	32 mf., 350 v., Electrolytic	
R3	12,000 ohms	33363PM	C27	0·05 mf., ± 2%, 1,000 v.	38214H
R4	15,000 ohms, ± 5%	33373V	TC1	4-30 mmf. Trimmer	} 39653A
R5	0·47 megohm	33360EE	TC2	4-30 mmf. Trimmer	
R6	22,000 ohms	33360DW	TC3	4-30 mmf. Trimmer	
R7	0·15 megohm	33360EB	TC4	3-30 mmf. Trimmer	
R8	1·5 megohms	33360EH	TC5	3-30 mmf. Trimmer	35480B
R9	10,000 ohms	33360DU	TC6	3-30 mmf. Trimmer	35480B
R10	15,000 ohms, ± 5%	33360V	VC1	} Gang Capacitor	37101H
R11	0·1 megohm	33360EA	VC2		
R12	0·1 megohm	33360EA	<b>INDUCTANCES</b>		
R13	3·3 megohms	33360EK	L1	} S.W. Aerial Coil	40970G
R14	0·22 megohm	33360EC	L2		
R15	10,000 ohms	33360DU	L3	} M.W. Aerial Coil	40970H
R16	2,000 ohms, ± 5%	37870FP	L4		
R17	200 ohms, ± 5%	33363AW	L5	} L.W. Aerial Coil	40970J
R18	1,000 ohms, ± 5%	37870N	L6		
VR1	0·5 megohm, Volume Control	37940FR	L7	} S.W. Oscillator Coil	40970A
VR2	20,000 ohms, Tone Control	37940GR	L8		
			L9	} M.W. Oscillator Coil	40970B
			L10		
			L11	L.W. Oscillator Coil	40970K
C1	22 mmf.	38050DC	L13	IFT1 Primary Coil	} See IFT1
C2	220 mmf., ± 5%	38001J	L14	IFT1 Secondary Coil	
C3	68 mmf., ± 2%	38004YC	L15	IFT2 Primary Coil	} See IFT2
C4	0·0039 mmf., ± 2%	38001WF	L16	IFT2 Secondary Coil	
C5	510 mmf., ± 2%	38001VQ	L17	Hum-bucking Coil	28811B
C6	180 mmf., ± 2%	38000VE	<b>TRANSFORMERS</b>		
C7	100 mmf., ± 2%	38004TF	T1	Pick-up Matching Transformer	34720E
C8	100 mmf., 750 v.	38100A	T2	Output Transformer	22628BS
C9	100 mmf., 750 v.	38100A	T3	Mains Transformer	44490C
C10	220 mmf., 750 v.	38100M	IFT1	1st I.F. Transformer	46551J
C11	0·1 mf.	38210EA	IFT2	2nd I.F. Transformer	46551J
C12	100 mmf., ± 2%	38006TF	<b>MISCELLANEOUS</b>		
C13	100 mmf., ± 2%	38006TF	S1	Waveband and Radio-Gram Switch	47002B
C14	0·047 mf.	38210DY	S2	Gram Motor Switch	See Auto. Mech.
C15	0·0047 mf.	38212DS	S3	Mains On/Off Switch	See VR1
C16	0·1 mf.	38210EA	LP1	Scale Lamp, 6·8 v., 0·3 amp.	35421D
C17	100 mmf., ± 2%	38006TF	LP2	Scale Lamp, 6·8 v., 0·3 amp.	35421D
C18	100 mmf., ± 2%	38100A	LS1	Loudspeaker	46570B
C19	100 mmf., 750 v.	38216DY	F1	Fuse, 1·0 amp.	38825D
C20	0·047 mf.	38150N	F2	Fuse, 1·0 amp.	38825D
C21	16 mf., 350 v., Electrolytic	38100M			
C22	220 mmf., 750 v.	38216DY			
C23	0·047 mf.	38214E			
C24	0·005 mf., 1,000 v.				

Ref.	Description.	Part No.	Description.	Part No.
<b>VALVES</b>				
V1	X78—Frequency Changer		Spring Washer } securing Transit Pillar	{ 201806
V2	W77—I.F. Amplifier		Locknut	{ 200506
V3	DH77—Detector, A.G.C. and A.F. Amplifier		Condenser and Tag Assembly .. ..	36630B
V4	N78—Output		Condenser Bracket .. ..	36617
V5	U78—Rectifier		Screw } securing Condenser Bracket	{ 200060D
			Nut	{ 200406
			Motor only .. ..	32370G
			Top Bracket and Rotor Assembly .. ..	36621A
			Bottom Bracket Assembly .. ..	36637A
			Disc .. ..	32378
			Bush .. ..	32371A
			Oil Washer .. ..	32372
			Cover .. ..	40463
			Screw } securing Cover to Bottom Bracket	{ 200080D
			Nut	{ 200408
			Lamination and Coil Assembly .. ..	32780H
			Coil .. ..	35384C
			Ring .. ..	35301
			Rubber Tube .. ..	41654
			Insulation (between Lamination and Bracket Assemblies) .. ..	32382
			Ball for Bottom Bearing .. ..	3520
			Screw } securing Top and Bottom Brackets	{ 200045Q
			Nut } to Lamination Assembly	{ 200404
			Screw	{ 20042M
			Nut Plate } securing Motor Assembly to	{ 35179
			Spacer } Mechanism Plate	{ 41655
			Spacer	{ 36824
			<i>See separate manual for complete Auto. Mech. Spare Parts List.</i>	
<b>AUTO-MECHANISM</b>				
	Automatic Record Player Complete .. ..	45000AG		
Mo1	No. 2 Rim Drive Motor .. ..	32370J		
PU1	No. 13 Pick-up .. ..	35218D		
	(For further details, see Auto. Mech. Manual)			
<b>MOTOR SPARE PARTS</b>				
	Motor and Condenser Plate Assembly Complete .. ..	32370J		
	Condenser Plate and Bracket Assembly .. ..	35181A		
	Pivot Screw } securing Motor Bracket	{ 41661		
	Felt Washer	{ 41662		
	Transit Screw Pillar .. ..	35185		
	Spring Washer } securing Transit Screw	{ 201806		
	Locknut } Pillar	{ 200506		
	Transit Screw .. ..	200060H		
	Washer for Transit Screw .. ..	201306		
	Screw—To replace Transit Screw when it is removed .. ..	41660		

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

1. Model number and serial number.
2. Spare part number and description, as given on previous page.
3. Quantity required.

Unless full particulars are quoted, delay in execution of orders must inevitably result.

Orders spare parts from:—

E.M.I. SALES AND SERVICE, LTD.,

SPARE PARTS DIVISION,

SHERATON WORKS,

WADSWORTH ROAD,

GREENFORD, MIDDLESEX.

Telephone : PERivale 6666.

Telegraphic Address : Emiservice, Greenford, Middlesex

The Company reserves the right to make any modification without notice.



# SPARE PARTS LIST

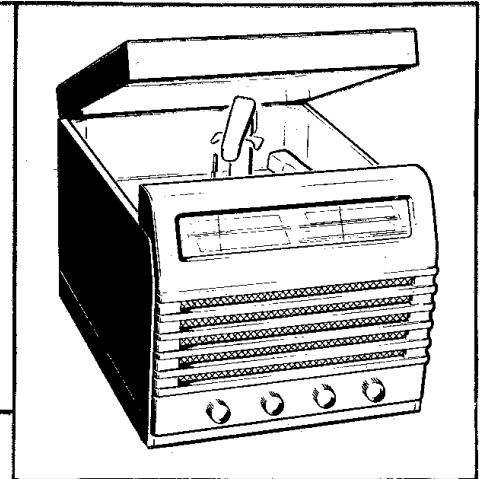
\* MODEL 1615 \*

## "HIS MASTER'S VOICE" Model 1615

5-VALVE SUPERHET TABLE RADIOGRAM  
FOR A.C. MAINS



*The Hallmark of Quality*



PART NO.	DESCRIPTION OF PART.	NO. INST.	PER FIN-ISH	PART NO.	DESCRIPTION OF PART.	NO. INST.	PER FIN-ISH		
<b>INSTRUCTIONS</b>				<b>CONTROLS</b>					
45286	Instruction Card	1	-	40172Q	Knob "TUNE"	1	-		
45287	Cabinet label	1	-	40172M	Knob "G.S.M.L."	1	-		
42963	Transit label	1	-	40172P	Knob "TONE"	1	-		
				40172R	Knob "VOLUME - ON/OFF"	1	-		
				11805	P.K. Screw securing knobs	4	-		
<b>CABINET PARTS &amp; FITTINGS</b>				<b>LOUDSPEAKER</b>					
413801	Cabinet complete	1	Pol.	46570B	Loudspeaker complete	1	-		
413802C	Lid only	1	Pol.	200025K	Screw	4	676		
22110B	Hinges for lid	2	854	201302	Washer	4	689		
9559	Screws securing hinges to lid	6	Bronze						
9561	Screws securing hinges to cabinet	4	Bronze						
47474	Escutcheon	1	-	<b>R.F. UNIT</b>					
47453	Screws	6	689	47450E	Radio Unit complete	1	-		
201520	S.P. Washer } securing	6	-	200025M	Screw (short)	4	689		
201302	Washer } escutcheon	6	689	200025S	Screw (long)	2	689		
413819	Removable front panel	1	Pol.	28769	Plate } Radio	6	689		
413820	Stiffener for front panel	1	-	201502	Spr.Washer } Unit	6	-		
9553	Screws securing stiffener	3	-	47459A	Chassis fixing bar	1	689		
47449	Bracket for panel fixing R.H	1	689	47458B	Chassis fixing bar complete with voltage adjustment panel and P.U. Socket	1	-		
47448	Bracket for panel fixing L.H	1	689						
8651	Screws securing brackets	6	-	<b>VALVES</b>					
46509	Screws } securing removable	4	256	V1	X78	Frequency Changer			
10713	Screw cup } front panels	4	256	V2	W77	I.F. Amplifier			
413898A	Millboard Card - silked	1	-	V3	DE77	Detector, A.G.C. & A.F. Amplifier.			
47440	Wire Mesh 6 $\frac{1}{2}$ " x 3 $\frac{1}{4}$ "	1	-	V4	N78	Output			
47441	Wire Mesh 5 $\frac{1}{2}$ " x 3 $\frac{1}{4}$ "	1	-	V5	U78	Rectifier			
8692	Screws securing meshes	8	-	<b>INDUCTANCES</b>					
413896	Aluminium faced paper (small)	1	-	40970G	L1	L2	Aerial coil S.W.	1	-
413895	Aluminium faced paper (large)	1	-	40970H	L3	L4	Aerial coil M.W.	1	-
9837	Rubber Dome	4	-	40970J	L5	L6	Aerial coil L.W.	1	-
8936	Transfer "Close lid while playing"	1	-						
40747A	Trade Mark plate	1	-						
1950	Transfer Trade Mark	1	-						
36083	Cabinet back bracket	2	689						
8602	Screws securing brackets	4	-						
47484A	Cabinet back	1	-						
19896	Screw } securing cabinet	2	676						
19895	Washer } back	2	676						

PART NO.	DESCRIPTION OF PART.	NO. INST.	PER FIN-ISH
40970A	L7 L8 Osc.coil S.W.	1	-
40970B	L9 L10 Osc.Coil M.W.	1	-
40970K	L11 Osc.coil L.W.	1	-
See IFT1	L13 L14		
See IFT2	L15 L16		
28811B	L17 Humbucking coil	1	-
47455B	Bracket assy.complete with L17	1	-
9545	Woodscrew securing bracket	1	689
46553	Coil trimmers for L1 - L11	6	-
46551J	IFT1 1st I.F.Transformer complete with L13 L14 C12 C13.1		-
46551J	IFT2 2nd I.F.Transformer complete with L15 L16 C17 C18.1		-
46553	Coil trimmers for IFT's	4	-
46552	Can for IFT'S	2	-
13517	P.K. Screws securing IFT's	4	-
34720E	T1 P.U. Transformer	1	-
9545	Woodscrews securing T1	2	689
22628BS	T2 Output Transformer	1	-
10606	P.K. screws securing T2	2	-
44490C	T3 Mains Transformer	1	-
200404	Nut	4	689
201304	Washer	4	689
201804	S.P. Washer ) securing T3	4	-

### RESISTORS

33360G	R1	100 ohms	5%	1	-
33363DW	R2	22,000 ohms		1	-
33363FM	R3	12,000 ohms	5%	1	-
33373V	R4	15,000 ohms	5%	1	-
33360EE	R5	0.47 megohm		1	-
33360DW	R6	22,000 ohms		1	-
33360EB	R7	0.15 megohm		1	-
33360EH	R8	1.5 megohm		1	-
33360DU	R9	10,000 ohms		1	-
33360V	R10	15,000 ohms	5%	1	-
33360EA	R11	0.1 megohm		1	-
33360EA	R12	0.1 megohm		1	-
33360EK	R13	3.3 megohm		1	-
33360EC	R14	0.22 megohm		1	-
33360DU	R15	10,000 ohms		1	-
37870FP	R16	2,000 ohms 6W	5%	1	-
33363AW	R17	200 ohms	5%	1	-
37870N	R18	1,000 ohms 6W	5%	1	-
37940FR	VR1 & S3 Volume Control and Switch 0.5 megohm				
Alt.					
37944FR					
38900FR					
37940GR	VR2 Tone Control 20,000 ohms			1	-

### CAPACITORS

38050DC	C1	22 mmfd		1	-
38001J	C2	220 mmfd	5%	1	-
38004YC	C3	68 mmfd	2%	1	-
38001WF	C4	3,900 mmfd	2%	1	-
38001VQ	C5	510 mmfd	2%	1	-
38000VE	C6	180 mmfd	2%	1	-
38004TF	C7	100 mmfd	2%	1	-
38100A	C8	100 mmfd		1	750V
38100A	C9	100 mmfd		1	750V
38100M	C10	220 mmfd		1	750V
38210EA	C11	0.1 mfd		1	150v
38006TF	C12	100 mmfd	2%	1	-

PART NO.	DESCRIPTION OF PART.	NO. INST.	PER FIN-ISH
38006TF	C13 100 mmfd	2%	1
38210DY	C14 0.047mfd	150V	1
38212DS	C15 0.0047 mfd	250V	1
38210EA	C16 0.1 mfd	150V	1
38006TF	C17 100 mmfd	2%	1
38006TF	C18 100 mmfd	2%	1
38100A	C19 100 mmfd	750V	1
38210DY	C20 0.047 mfd	150V	1
38150N	C21 (with C25 & C26) 16 mfd Electro.	350V	1
38190B	Condenser Clip for C21		1
47019	Insulating strip		1
200040F	Screw	) securing condenser clip	2
201804	S.P. Washer		2
200404	Nut	) securing condenser in clip	2
200040M	Screw		1
201804	S.P.Washer	) securing condenser in clip	1
200404	Nut		1
38100M	C22 220 mmfd	750V	1
38216DY	C23 0.047 mfd		1
38214E	C24 0.005 mfd	1000V	1
See C21	C25 32 mfd Electro.	350V	1
See C21	C26 32 mfd Electro.	350V	1
38214H	C27 0.05 mfd	1000V	1
39653A	TC1 TC2 TC3 three bank trimmer assy.		1
Alt.			
39655A			
47017	Pillar	) securing Trimmer assy.	2
200040R	Screw		2
17362	Insulating Washer	) securing Trimmer assy.	2
201304	Washer		2
201804	S.P. Washer	) securing Trimmer assy.	2
200404	Nut		2
35480B	TC4 Trimmer assy.	(3-30 mmfd)	1
35480B	TC5 Trimmer assy.	(3-30 mmfd)	1
35480B	TC6 Trimmer assy.	(3-30 mmfd)	1
37101H	VC1 VC2 Twin gang condenser		1
46958	Rubber bush	) securing VCI & VC2	3
6250	Washer		3
2856	Circlip		3

### TUNING DETAILS

28441H	Tuning drum assy.	1	689
13387	Screw securing tuning drum assy.	2	689
47446	Tuning spindle	1	03
6250	Washer	) securing tuning spindle	1
2856	Circlip		1
47447A	Pulley & bracket assy.	2	-
8692	Screws securing brackets	4	689
4505	Pulley	1	689
2856	Circlip securing pulley	1	689
47445B	Upright bracket assy. with pulley	1	-
47031	P.K. Screws securing bracket	2	-
47465B	Scale backing plates assy with lampbrackets & pulleys	1	-
200040F	Screws	) securing scale backing plate assy	4
201804	S.P. Washer		4
47011D	TUNING SCALE		1
47452A	Cursor & Pointer assy.		2
47451	Drive cord connector		1
6370x0012	Nylon cord drive (in bulk)		38"
46954	Spring for cord drive (in tuning drum)		1
37198	Spring for cord drive		1
35421D	Pilot lamps 6.8V 0.3 amp.		2

PART NO.	DESCRIPTION OF PART.	NO. INST.	PER FIN-ISH	PART NO.	DESCRIPTION OF PART.	NO. INST.	PER FIN-ISH
<b>SWITCHES</b>							
47002B	S1 Wavechange switch complete with Card 2 & Card 3 (less Card 1)	1	-	44577A	Valve screen for V1, V2 & V3	3	-
201322	Washer for S1 fixing	1	689	44578	Valve screen for springs	5	-
47020	Switch card No.1 only	1	-	35822G	Panel "Aerial/Earth" & bracket	1	-
47015	Bracket for Switch card	1	689	8651	Screw securing panel	2	-
12619	P.K.Screw securing bracket	2	-	47485A	Panel "Ext-Int L/S" & bracket	1	-
47016	Spacer	2	689	47006A	Panel - Voltage adjustment	1	-
47021	Insulating Washer	4	-	59119AC	Rivet securing panel	4	-
200060Q	Screw	2	689	44562B	Voltage adjustment plug	1	-
200406	Nut	2	689	20314A	Panel - P.U.	1	-
201806	S.P. Washer	2	-	59119CC	Rivet securing panel	2	-
See Auto Mech.	S2			20334A	Insulated tag (large)	2	-
See VRI	S3 On/Off Switch	1	-	40029A	Insulated tag (small)	5	-
<b>R.F. UNIT</b>							
47450B	R.F. Unit complete	1	-	59007CD	Rivet securing tag (small)	5	-
47031	P.K.Screw securing R.F.Unit to chassis fixing bar	5	-	16756	Tag for T1	1	104
47457A	Chassis fixing bar (front) with bearing for tuning spindle	1	689	47460A	Bracket for VR1 & VR2	1	689
41674A	Valveholders (type B7G)	3	-	200040M	Screw	2	689
59119AB	Rivet securing valveholders	6	-	201304	Washer	2	689
37095BB	Tag panel assy.	1	-	201504	Spr.Washer	2	-
12619	P.K.screw securing tag panel	1	-	20852B	Mains lead	1	-
40029A	Insulated tag (small)	3	-	40852C	Cleat for mains lead	1	-
59007CD	Rivet securing tags	6	-	201304	Washer	1	-
20334A	Insulated tag (large)	1	-	47031	P.K. Screw	1	-
12619	P.K. Screw securing tag	1	-	47476A	Cableform with lampholders and plug	1	-
16755	Rubber grommet	1	-	16289J	Plug (Yellow)	1	-
36489	Tag	1	104	44615A	Lampholders	2	-
10606	P.K. Screw securing tag	1	-	36480	Cleat (short)	2	-
<b>POWER UNIT</b>							
47442A	Power Unit complete	1	-	28641	Cleat (long)	1	-
47031	P.K. Screw securing unit to chassis fixing bars	6	-	8691	Woodscrew securing cleats	3	-
41674A	Valveholder (type B7G)	2	-	36489	Tag (for 'E'Lead on motor)	1	104
59119AB	Rivet securing valveholders	4	-	10606	P.K. screw securing tag	1	-
47027	Deck plate for T2, V4 & V5	1	689	8812	Tag (for plate aerial lead)	1	104
47028	Spacer	4	689	8691	Woodscrew	1	689
200040N	Screw	4	689	16289B	Plug - Black	1	-
200404	Nut	4	689	16289J	Plug - Yellow	2	-
201804	S.P.Washer	4	-	3475B	Plug - Black (short)	1	-
46956A	Fuse panel	1	-	3475G	Plug - Yellow (short)	1	-
47029	Spacer	2	689	18889A	Mains lead carton	1	-
11804	P.K. Screw	2	-	20988	Clip for carton	1	-
37095AA	Tag panel assy.	1	-	29296	Rubber band for carton	1	-
12619	P.K. Screw securing tag panel	1	-	<b>AUTO. MECHANISM</b>			
47485A	L.S.panel & bracket assy.	1	-	45000AG	Auto.Mechanism complete	1	-
40029A	Insulated tag (small)	1	-	47615	Auto.Mech mounting bracket (left hand front)	1	689/876 loc.
59007CD	Rivet securing tag	1	-	45777	Auto.Mech mounting bracket	3	689/876 loc.
16757	Rubber grommet	3	-	201302	Washer	12	689
16756	Tag	1	104	8637	Woodscrew	12	689
38825D	Fuse 1.0 amp	2	-	45780A	Bush plate assy.	4	689/876 loc.
<b>VALVEHOLDERS, PANELS ETC.</b>							
41674A	Valveholder (type B7G)	5	-	200020H	Screw	8	689
59119AB	Rivets securing valveholders	10	-	201302	Washer	8	689
45969A	Valve screen for V4 & V5	2	-	45781	Mounting spring	4	-
				46313	Cap for mounting spring	4	-
				35851	Leather washer	4	-
				46315	Auto.mechanism screws	4	06
				200025N	Screw	4	689/824
				46316	Washer	4	689/824
				35851	Leather washer	4	-
				45110	Bag (for 46315)	1	-
				35218D	PICK-UP complete	1	-
				32370J	MOTOR complete	1	-

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