TECHNICAL INFORMATION AND SERVICE DATA

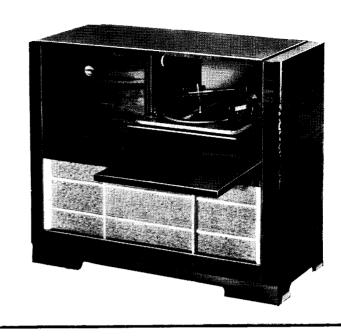
AWA RADIOLA

Model 562-GF

FIVE VALVE, TWO BAND,
32 VOLTS D.C. OPERATED SUPERHETERODYNE

ISSUED BY:

AMALGAMATED WIRELESS (AUSTRALASIA) LTD.



ELECTRICAL SPECIFICATIONS

Frequency Ranges:	
Medium Wave	540-1600 Kc/s. (555-187.5 Metres)
Short Wave	6-18 Mc/s. (50-16 Metres)
Intermediate Frequency	455 Kc/s.
Dial Lamps 6.3 vol	ts, 0.25 Amp. M.E.S.
Fuses	5 Amp. Cartridge
Valve Complement:	
(1) 6BA6 R.F. Amplifier.	
(2) 6BE6 Converter	
(3) 6BA6 I.F. Amplifier.	
(4) 6AV6 Detector, A.F. Amplifier, A	A.V.C.
(5) 6AQ5 Output.	
Vibrator Power Unit	26671
Vibrator Cartridge	V6732
Loudspeaker:	
12 inch permanent magnet. Part No. 20767. Transformer TU201. V.C. Impedance 6.5 ohms at 400 C.P.	s.
Undistorted Power Output	2.5 watts

General Description:

The model 562-GF is a 5 valve, two band, 32 volts D.C. operated Phono/Radio superheterodyne and features of its design include:—Tropic-proof construction, automatic volume control, magnetite cores in I.F. transformers and broadcast oscillator coil, air-dielectric trimming capacitors, straight-line edge lighted perspex dial scale.

The model also incorporates the Garrard RC75A which is designed to play 33\frac{1}{3}, 45 and 78 r.p.m. records. The record changer features a D.C. motor and simple construction with minimum of working parts, ensuring trouble-free service.

Connection to Power Supply:

The receiver will not operate unless it is connected to the power point in the correct polarity. It is necessary, therefore, that all power points to which the receiver may be connected are wired with the same polarity. The plug should be wired to the receiver power cable so that the red wire connects to the positive side of the supply and the black wire to the negative side.

A warning is given on the use of "Double Adaptors", which normally have one outlet in the reverse polarity to the other. If the use of a "Double Adaptor" is essential, the outlet with the correct polarity only should be used for the receiver.

Interference Suppression:

If the receiver is in operation whilst the motor generator is running some form of suppression will generally be necessary to reduce interference which is radiated from the generator and picked up by the receiver aerial.

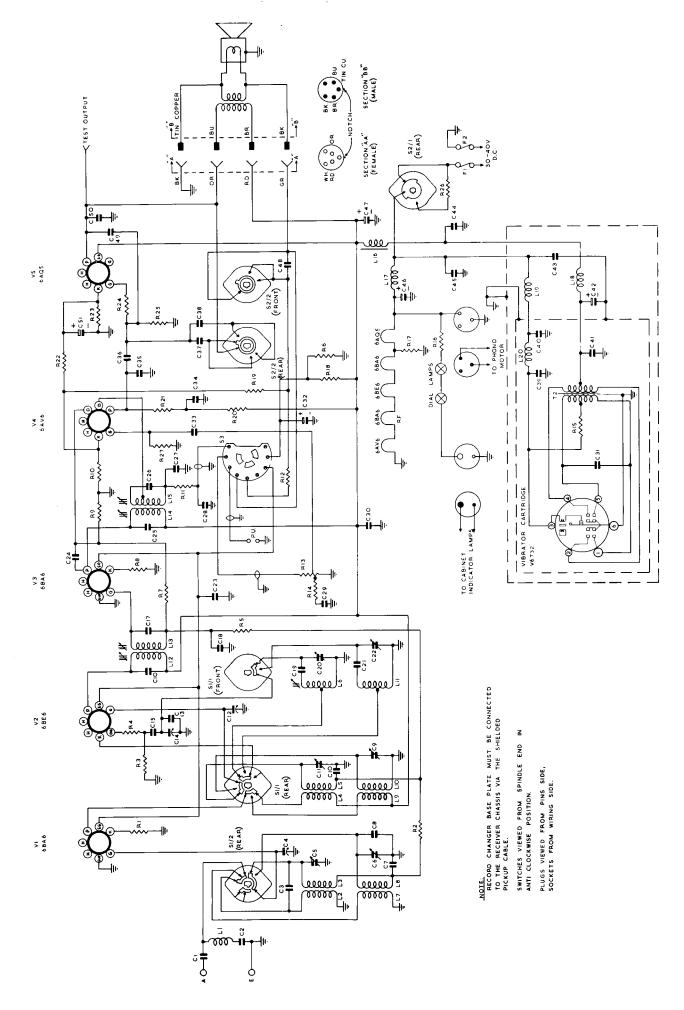
It is recommended that the following be carried out:-

To each generator brush connect one end of a 0.5 μF capacitor. Then connect the other ends of the capacitors to the generator housing.

The generator housing should be earthed using a wire as short as possible and of not less than 7/.029 insulated cable.

Chassis Removal:

- (1) Remove the control knobs by pulling them straight off their spindles. The Phono/Radio knob is situated inside the record changer compartment.
- (2) Disconnect the loudspeaker, phono-motor and pick-up cables.
- (3) The chassis is held in the cabinet by four screws through the receiver baseboard. Removal of these screws enables the chassis to be withdrawn.



Vibrator Cartridge Replacement:

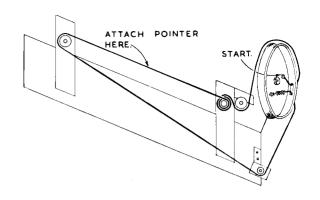
Remove the chassis from the cabinet, the lid from the outer case of the vibrator unit and the lid from the inner case. The cartridge is then accessible.

Vibrator Unit Replacement.

Remove the chassis from the cabinet and remove the lid from the vibrator unit outer case. Beneath the chassis disconnect three leads, red, yellow and black, which come from the vibrator unit. The unit may then be lifted out of the case.

Drive Cord Replacement:

The accompanying diagram shows the route of the cord and the method of attachment.



ALIGNMENT PROCEDURE

Manufacturer's Setting of Adjustments:

The receiver is tested by the manufacturer with precision instruments and all adjusting screws are sealed.

Realignment should be necessary only when components in tuned circuits are repaired or replaced or when it is found that the seals over the adjusting screws have been broken.

It is especially important that the adjustments should not be altered unless in association with the correct testing instruments listed below.

Under no circumstances should the plates of the ganged tuning capacitor be bent as the unit is accurately aligned during manufacture and cannot be readjusted unless by skilled operators using special equipment.

For all alignment operations, connect the "low" side of the signal generator to the receiver chassis, and keep the generator output as low as possible to avoid A.V.C. action. Also, keep the volume control in the maximum clockwise position.

Testing Instruments:

- (1) A.W.A. Junior Signal Generator, type 2R7003, or
- (2) A.W.A. Modulated Oscillator, Series J6726.

If the modulated oscillator is used, connect a 0.25 megohm non-inductive resistor across the output terminals, and for short wave alignment, an additional 400 ohms non-inductive resistor in series with the "high" output lead of the instrument.

(3) A.W.A. Output Meter, type 2M8832.

ALIGNMENT TABLE

Alignment Order:	Connect "high" side of Generator to:	Tune Generator to:	Tune Receiver Dial to:	Adjust for Maximum Peak Output:
1	R.F. Section of Gang	455 Kc/s.	540 Kc/s. (4QL)	L15 Core
·	(Centre portion)			
2	R.F. Section of Gang (Centre portion)	455 Kc/s.	540 Kc/s. (4QL)	L14 Core
3	R.F. Section of Gang (Centre portion)	455 Kc/s.	540 Kc/s. (4QL)	L13 Core
4	R.F. Section of Gang (Centre portion)	455 Kc/s.	540 Kc/s. (4QL)	L12 Core
Repeat th	e above adjustments until the r	maximum output is obtair	ned.	
5	Aerial Terminal	600 Kc/s.	600 Kc/s. (7ZL)	Osc. Core Adj. (L6)*
6	Aerial Terminal	1500 Kc/s.	1500 Kc/s. (3AK)	Osc. Adj. (C20)
7	Aerial Terminal	1500 Kc/s.	1500 Kc/s. (3AK)	R.F. Adj. (C11)
8	Aerial Terminal	1500 Kc/s.	1500 Kc/s. (3AK)	Aer. Adj. (C5)
Repeat a	djustments 5, 6, 7 and 8.			
9	Aerial Terminal	16 Mc/s.	16 Mc/s.	Osc. Adj. (C22)‡
10	Aerial Terminal	16 Mc/s.	16 Mc/s.	R.F. Adj. (C9)†
11	Aerial Terminal	16 Mc/s.	16 Mc/s.	Aer. Adj. (C6)†

^{*} Rock the tuning control back and forth through the signal.

[‡] Use minimum capacity peak if two can be obtained. Check to determine if C22 has been adjusted to correct peak by tuning the receiver to approximately 15.09 Mc/s. where a weaker signal should be received.

[†] Use maximum capacity peak if two can be received.

REPLACEMENT PARTS

Cabinet	28118
Dial Scale	32217
Knob Assembly	26516
Knob Assembly, Range and Tone	26519
Knob Assembly, Phono/Radio	31844
Lamp Holder	32804
Pointer	33048
Socket Valve	19965
Socket Valve, Floating	23274

When ordering, always quote the above part numbers and in the case of coloured parts, the colour plus the part number.

D.C. RESISTANCE OF WINDINGS

Winding	D.C. Resistance in ohms.
Aerial Coil (M.W.)	
Primary (L2)	16
Secondary (L3)	5
Aerial Coil (S.W.)	
Primary (L7)	3
Secondary (L8)	*
R.F. Coil (M.W.)	
Primary (L4)	35
Secondary (L5)	4
R.F. Coil (S.W.)	
Primary (L9)	*
Secondary (L10)	*
Oscillator Coil (M.W.) (L6)	5
Oscillator Coil (S.W.) (L11)	*
I.F. Filter (L1)	17.5†
I.F. Transformer Windings	10
R.F. Choke (L17, L19, L20)	*
H.T. Filter Choke (L16)	200
R.F. Choke (L18)	18
Loudspeaker Input Transformer (T1)	
Primary	430 or 525
Secondary	*
Vibrator Transformer (T2)	
Primary	3
Secondary	900

^{*} Less than 1 ohm.

The above readings were taken on a standard chassis, but substitution of materials during manufacture may cause variations and it should not be assumed that a component is faulty if a slightly different reading is obtained.

SOCKET VOLTAGES

VALVES	Cathode to Chassis Volts:	Screen Grid to Chassis Volts:	Anode to Chassis Volts:	Anode Current mA:	Heater Volts:†
6BA6 R.F. Amp. M.W	1.7	70	200	2.75	6.3
\$.W	1.8	70	200	2.85	6.3
6BE6 Converter M.W	_	70	200	1.25	6.3
S.W	_	70	200	1.25	6.3
6BA6 I.F. Amp.	1.8	70	200	3.1	6.3
6AV6 Det., A.F. Amp., A.V.C.	.05	_	70*	0.5	6.3
6AQ5 Output	9.0	200	190	34	6.3

Total H.T. Current = 50 mA.

[†] In some receivers this reading may be as high as 60 ohms.

Measured with receiver connected to 32V D.C. Supply.

Total Input Current = Radio 1.3 Amp., Phono 1.8 Amp.

Volume Control maximum clockwise. Power/Tone Switch in "Speech" anti-clockwise position. No signal input. Voltmeter 1000 ohms per volt; measurement taken on highest scale giving accurate readable deflection.

^{*} Cannot be measured with an ordinary voltmeter.

[†] These readings are nominal and will vary due to the Series Heater connections.

CIRCUIT CODE — RADIOLA 562-GF

Householder	Code No.	Description	Part No.	Fig. No.	. Location	Code No.	Description	181	9	FOCATION
It Filter (blocking)		INDUCTORS				[13	2-20 µµF air trimmer	19659	7	F14
According to Continue Control (Lagged) Control	_	I.F. Filter (including C2)	9382	7	115	C12	12-430 μμF tuning	18321	-	E5
1. 1. 1. 1. 1. 1. 1. 1.	2.L3	Aerial Coil 540-1600 Kc/s	15454	2	115	C13	9 µµF mica		_	E6.
Occilience Coli 6-18 Mexis 15466 2 11 11 11 11 11 11 1	4. 15	R.F. Coil 540-1600 Kc/s	23891	1 7	E13	C14	12-430 µµF tuning	18321	_	E
10 10 14 14 15	· ~		15949	7	H10	C15	70 $\mu\mu$ F mica		2	H13
110 Met Met 2000 2 113 114 1	7, L8	Aerial Coil 6-18 Mc/s	15456	2	E15	C16	100 $\mu\mu F$ silvered mica		7	욷
11 St. House control 1 St. 1 S	9, 110	R.F. Coil 6-18 Mc/s	26060	2	113	C17	100 $\mu\mu$ F silvered mica		2	全
11 2		Oscillator Coil 6-18 Mc/s	26678	2	E10	C18	$0.05~\mu F$ paper $200 V$ working		7	Ξ
115 2.04 Librationner 23137 2 F		1st I.F. Transformer	26673	7	£	C19	470 $\mu\mu$ F padder $\pm 2\frac{1}{2}\%$		7	છ
File Choke 13317 2 C2 2.00 µm distort ± 21% 19659 2 C3 1 µm distort ± 21% 19659 2 C4 C4 C4 C4 C4 C4 C4		2nd I.F. Transformer	25197	7	6H	C20	2-20 µµF air trimmer	19659	5	۵
R.F. Choke 3149 12 C22 2.20 µHz in trimmer 19659 2 R.F. Choke 1360 Choke 22336 1 CA4 30 µHz intended miss 2 2 R.F. Choke 2000 ohms 4 100 µHz intend miss 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 4 4 4 4 4 4		Filter Choke	15317	7	E7	C21	4,000 $\mu\mu$ F padder $\pm 2\frac{1}{2}\%$		2	_
R. F. Choke 13899 In Vibrator Unit C23 0.1 µF paper 400V working 2 PRESIDOR R. F. Choke 13899 In Vibrator Unit C23 100 µJF inlevered mice 2 1 RESISTOR 200 magnetis 1 2 1 C23 100 µJF inlevered mice 2 1 200 column 200 column 2 K13 C20 100 µJF inlevered mice 2 C22 C00 µJF inlevered mice 2 C22 C00 µJF inlevered mice 2 C22 C00 µJF inlevered mice 2 C00 µJF inlevered mice	17	R.F. Choke	3149	7	G2	C22	2-20 μμF air trimmer	19659	7	Δ
R.F. Choke C23 100 art Filtered mics 22936 7, 7, 75 100 art Filtered mics 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 4 3 4	18	R.F. Choke	13809			C23	$0.1~\mu F$ paper 400V working		7	Ï
R.F. Choke R.F. Choke R. Stall Cool and Fall shared mice R. Stall Cool and Fall shared mice R. Stall Cool and Fall shared mice R. Stall Cool of the Fall shared mice R.	61		22936	ž		C24	50 μμF mica		7	·
RESISTORS RESISTORS RESISTORS RESISTORS RESISTORS So others water wate	20	R.F. Choke	22936	: :		C25	100 $\mu\mu$ F silvered mica		_	4
200 ohms wath wat						C26	100 $\mu\mu$ F silvered mica		_	_
2000 ohms with with 2 116 C28 100 µµ paper 6000 working 2 2 2 2 2 3 3 3 3 3		RESISTORS				C27	100 $\mu\mu$ F mica		7	86
0.1 megodinis 3 2 K13 C30 0.1 µF paper 600W working 2 D.0000 ohms 3 2 L14 C31 1.0 µF datoW working (2X0.5 µF paper 400W working (2X0.000 ohms 3 2 L14 C31 1.0 µF datoW working (2X0.5 µF paper 400W working 2 D.000 ohms 3 2 L14 C31 0.0 µF paper 400W working 2 D.000 ohms 3 2 L10 C32 0.0 µF paper 400W working 2 D.000 ohms 3 2 L10 C32 0.0 µF paper 400W working 2 D.000 ohms 3 2 L10 C32 0.0 µF paper 400W working 2 D.000 ohms 3 2 L10 C32 0.0 µF paper 400W working 2 D.000 ohms 3 2 L10 D.000 ohms 3	<u>۳</u>	-0		7	916	C28	$100~\mu\mu$ F mica		7	J7
100 ohms 1 1 2 1 3 3 1 3 1 3 1 3 1 3 1 3 1 3 3	R2	- cı		7	F12	C29	$0.01~\mu$ F paper 600V working		7	D15
100 ohms 1 11 2 114 C31 10 parallel 10 Vibrator 10 vib	. R3	- n ,		7	K13	C30	0.1 µF paper 400V working		7	ζ.
Colim regolms 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	R4	- cı -		7	114	<u></u>	1.0 μ F 400V working (2X0.5 μ F pape		-	
200 ohms 1, 2	R5	- a r		7	E 6	Ċ	in parailel)		α Ω	ator U
Colon of the paper and working 2	9 2			N 6	2 9	C35	8 Mr 323 P.V. electrolytic		۷ ۲	2 2
150 megohns 1, 150	<u>}</u>	negonm 2		٧ (ç :	35	0.02 Ar paper book working		۷ ۲	Èċ
5,000 ohms \$	0 0	onnis 2		ч с	- 5	33.	50 mil paper 400 working		4 0	_
50,000 ohms 2 1 2 3 5 5 5 5 5 5 5 5 5	6.0	o -		4 0	2 0	35	O OF HE Paper 400V Working		4 0	
1,000 ohms 1,000 ohms 2,000 ohms 2,0	2 2	r ⊢		٠,) ^{eq}	C32	500 uuf mica		2 2	
0.5 megohm Volume Control (Tapped C13 C13 ir paper 200V working In Vibrator Unit C3 C11 ir paper 200V working In Vibrator Unit C15 C40 0.0 if ir paper 200V working In Vibrator Unit C42 10 if ir paper 200V working In Vibrator Unit C42 10 if ir paper 200V working In Vibrator Unit C42 10 if ir paper 200V working In Vibrator Unit C43 0.1 if paper 400V working In Vibrator Unit C43 0.1 if paper 400V working In Vibrator Unit C43 0.1 if paper 400V working In Vibrator Unit In Vib	R12	v -∤c		۰ -	B3	C38	200 uuF mica		. 7	,
22,000 ohms 3, water wound) 2 chins 5 chins 40,000 ohms 4 chins 4 chins 5 chins 5 chins 5 chins 5 chins 5 chins 5 chins 6 chins 6 chins 6 chins 6 chins 7 chins 7 chins 6 chins 7 chins 6 chin	R13	Control (Ta				C3 3	0.1 µF paper 200V working			_
22,000 ohms ½ watt 65 ohms 5 with evound) In Vibrator Unit Cd2 10 µF paper 600V working 65 ohms 5 % (wire wound) 2 10 µF paper 400V working 2 1,000 ohms 1 % 2 10 µF paper 400V working 2 1,000 ohms 1 % 2 10 µF paper 400V working 2 1,000 ohms 1 % 2 1 µF paper 400V working 2 1,000 ohms 1 % 2 1 µF paper 400V working 2 1,000 ohms 1 % 2 1 µF paper 400V working 2 1,000 ohms 2 % (wire wound) 2 1 µF paper 400V working 2 1,000 ohms 3 % (wire wound) 2 1 µF paper 400V working 2 1,000 ohms 3 % (wire wound) 2 1 µF paper 200V working 2 1,000 ohms 3 % (wire wound) 2 1 µF paper 600V working 2 µF paper 600V worki		0 ohms)	27145	-	C15	C40	0.4 µF paper 200V working			
5 ohms 5 in (wire wound) In Vibrator Unit C42 16 μF 525 P.V. Electrolytic in control 160 ohms 5 in (wire wound) 2 de C44 10 μF paper 400V working 2 de in control 2 de <t< td=""><td>R14</td><td>½ watt</td><td></td><td>-</td><td></td><td>2</td><td>0.01 µF paper 600V working</td><td></td><td></td><td></td></t<>	R14	½ watt		-		2	0.01 µF paper 600V working			
65 ohms 5 ", (wire wound) 2 H1 Cd3 100 μμF mica 13,000 ohms 3 ", (wire wound) 2 J6 Cd5 0.5 μF paper 400V working 2 1,000 ohms 3 ", (wire wound) 2 H3 Cd6 20 μF paper 400V working 2 1,000 ohms 3 ", (wire wound) 2 H8 Cd9 14 μμF mica 2 1,000 ohms 3 ", (wire wound) 2 H8 Cd9 14 μμF mica 2 1,000 ohms 3 ", (wire wound) 2 J3 C51 25 μF 40 PV. Electrolytic 2 1,000 ohms 3 ", (wire wound) 2 J3 C51 25 μF 40 PV. Electrolytic 2 1,000 ohms 3 ", (wire wound) 2 J3 C51 25 μF 40 PV. Electrolytic 2 1,000 ohms 3 ", (wire wound) 2 J3 C51 25 μF 40 PV. Electrolytic 2 1,000 ohms 3 ", (wire wound) 2 J3 C51 25 μF 40 PV. Electrolytic 2 1,000 ohms 3 ", (wire wound) 2 J3 C51 25 μF 40 PV. Electrolytic 2 1,000 ohms 3 ", (wire wound) 2 J3 C51 25 μF 40 PV. Electrolytic 2 J3 C51 μF paper 600V working 2 L15 S3 Phono/Radio Switch 2 Phono/Radio Switch 2 D14 F mica 2	R15	5		_		C42	16 μ F 525 P.V. Electrolytic			
160 ohms 5 1, (wire wound) 2 16 C44 0.1 μF paper 400V working 1, 0.000 ohms 3 1, 0.00	R16	5 ,, (wire		2	Ξ	C43	100 $\mu\mu$ F mica			
13,000 ohms 3 1, 1 2 68 C45 0.5 μF paper 400V working 13,000 ohms 1 1 1 1 1 1 1 1 1	R17	5		5	96	C44	0.1 μ F paper 400V working		7	E2
1,000 ohms 1 ,, 2 H7 C46 ± 20 P.V. Electrolytic 2 C47 16 μF 525 P.V. Electrolytic 2 C48 14 μF paper 2000 working 2 C49 14 μμ paper 2000 working 2 C49 14 μμ paper 2000 working 2 C49 14 μμ paper 600V working 2 C49 μμ paper 200V working 2 C49 μμ pa	8 2	ი .		7	89 !	C45	0.5 µF paper 400V working		7	Ω ;
0.00 ohms 1 , με 2	R 19			7	¥ :	249	20 μF 200 P.V. Electrolytic		7 ,	•
0.25 megohm 1 , , , , , , , , , , , , , , , , , , ,	R20	_		7	£	C47	16 μ F 525 P.V. Electrolytic		- 1	O
3,000 ohms 3 (wire wound) 2	K21	0.25 megohm 1 ,,		7	£ :	2 5	0.4 µF paper 200V working		7	•
2.20 offins 3 (wire wound) 2 13 C51 2.5 μ 4 0 P.V. Electrolytic 2 2 13 2.5 μ 4 0 P.V. Electrolytic 2 2 13 2.5 μ 4 0 P.V. Electrolytic 2 2 13 2 2 μ 4 0 P.V. Electrolytic 2 2 13 2 2 μ 4 0 P.V. Electrolytic 2 2 13 2 2 μ 4 0 P.V. Electrolytic 2 2 μ 4 0 P.V. Electrolytic <t< td=""><td>K22</td><td>- 12</td><td></td><td>Ν (</td><td>2 3</td><td>C. 45</td><td>$14 \mu \mu$F mica</td><td></td><td>7 0</td><td></td></t<>	K22	- 12		Ν (2 3	C. 45	$14 \mu \mu$ F mica		7 0	
5 Shins 2 Jis 3 Jis 3 Jis 3 Jis	823 024	3 ,, (wire wou		N (⊼ 4 c	65	0.005 μ F paper 600V working		7 (
5 Shims 1 El6 TRANSFORMERS 10 megohms 3 1 1 Loudspeaker Transformer 17894 In Vibrator U201 10 megohms 3 1 1 Loudspeaker Transformer 17894 In Vibrator U201 10 megohms 3 1 1 Loudspeaker Transformer 17894 In Vibrator U201 10 μF paper 600V working 2 K14 1 Loudspeaker Transformer 20767 4 μμF mica 12 inch permanent magnet 20767 20767 20767 12-430 μμF mica 18321 1 E3 SWITCHES 20767 12-20 μμF mica 19659 2 H15 S2 Power/Tone Switch 2 2-20 μμF mica 19659 2 115 S3 Phono/Radio Switch 2 2-20 μμF mica 2 115 S3 Phono/Radio Switch 2 2-20 μμF mica 2 115 S3 Phono/Radio Switch 1 2-20 μμF mica 2 115 S3 Phono/Radio Switch 1 <td>R24</td> <td>10 m</td> <td></td> <td>4 0</td> <td>3 ~</td> <td>3</td> <td>23 pr 40 F.V. Electrolytic</td> <td></td> <td>7</td> <td></td>	R24	10 m		4 0	3 ~	3	23 pr 40 F.V. Electrolytic		7	
CAPACITORS 10 megohms ½ , , , , , , , , , , , , , , , , , ,	R26	25 ,,		۰.	E16		TRANSFORMERS			
CAPACITORS 172 Vibrator Transformer 17894 In Vibrator Unbrator In Vibrator In Vibr	R27			7	8 2	Ξ	Loudspeaker Transformer	. TU201		
.01 μF paper 600V working 2 K14 LOUDSPEAKER .01 μF paper 600V working 2 L15 12 inch permanent magnet 20767 4 μμε mice 2 J16 SWITCHES 12-430 μμε tuning 18321 1 E3 S1 Range Switch 2 C0 2-20 μμε air trimmer 19659 2 H15 S2 Power/Tone Switch 2 C0 2-20 μμε air trimmer 19659 2 F15 S3 Phono/Radio Switch 2 C0 9 μμε mice 2 D14 F1 S amp cartridge 1 F1 F1 9 μμε mice 2.20 μμε mice 2 H14 F1 3 amp cartridge 1		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;				12	Vibrator Transformer	17894	lı Vib	ator U
47 μμ	;	CAPACHORS		•			LOUDSPEAKER			
4 μμε mice 2 116 SWITCHES 12-430 μμε tuning 18321 1 E3 S1 Range Switch 27084 2 C 2-20 μμε air trimmer 19659 2 H15 S2 Power/Tone Switch 33149 2 2-20 μμε mice 19659 2 F15 S3 Phono/Radio Switch 33152 1 9 μμε mice 2 D14 F1 3 amo cartridge 1 F1 2-20 μμε mice 19659 2 H14 F1 3 amo cartridge 1 F1	5 8	.01 μ F paper 600V working		7 0	4 - 4 7		12 inch permanent magnet	20767		
12-430 μμF tuning 18321 1 E3 SI Range Switch 27084 2 C 2-20 μμF air trimmer 19659 2 H15 S2 Phono/Radio Switch 33149 2 C 0.05 μF paper 200V working 2 D14 F1 3 among cartridge 19659 2 H14 F1 3 among cartridge 1 P659 2 H14 F1 3 among cartridge 1 F1 S S S S S S S S S S S S S S S S S	ງ ຕ	4 tuF mica		۰,	917		3311011413			
2.20 μμF air trimmer 19659 2 H15 S2 Power/Tone Switch 23149 2 2.20 μμF air trimmer 19659 2 F15 S3 Phono/Radio Switch 33152 1 0.05 μF mica 2 D14 F1 3 amp cartridge 1 F1 5 S S S S S S S S S S S S S S S S S S	2	12-430 µµF tuning	18321	ı –	E3	5	Dance Switch	77087	ç	ניני
2-20 μμF air trimmer 19659 2 F15 53 Phono/Radio Switch 33152 1 0.05 μF mica 2 D14 F1 3 amp cartridge 1 F1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5	2-20 μμF air trimmer	19659	7	H15	5 8	Power/Tone Switch	33149	4 0	ָר כ י
0.05 μF paper 200V working 2 J15 FUSES 9 μμF mica 2 D14 F1 3 amp cartridge 1 K 1 S σ μπρ Cartridge 1 K 1 S σ μπρ Cartridge 1 S σ μπρ Cartridge 1 K 1 S σ μπρ Cartridge 1 C S σ	%	2-20 μμF air trimmer	19659	7	F15	33 83	Phono/Radio Switch	33152	. –	3 8 8
9 µµr mica 1014 1055 2-20 µµr air trimmer 1955 2 H14 1 3 amp cartridge 1 0.05 1 0.0	50	$0.05~\mu\text{F}$ paper 200V working		5	J15					
7-2-0 ptg/r at rinner	ლ ე	9 $\mu\mu$ F mica	03701	7	D14	5	FUSES		-	2
	3 5	0.05 ve and trimmer	40041		4 C	<u>.</u> 2	3 amp carridge			4