

TECHNICAL INFORMATION
AND SERVICE DATA

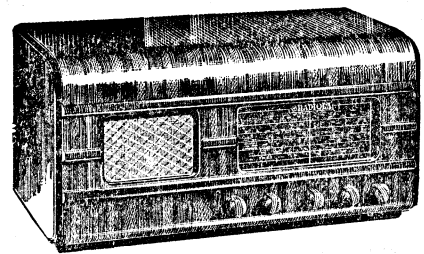
RADIOLA

MODELS 615-T, 615-TA,
804-G and 804-GZ

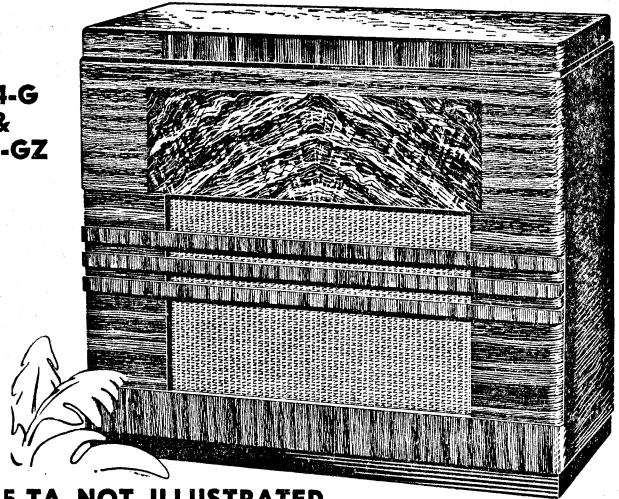
FIVE VALVE, TWO BAND, A.C. OPERATED
SUPERHETERODYNES

ISSUED BY
AMALGAMATED WIRELESS (A/SIA) LTD.

615-T



804-G
&
804-GZ



615-TA NOT ILLUSTRATED

ELECTRICAL SPECIFICATIONS.

FREQUENCY RANGES: Medium Wave 1600-540 Kc/s
(187.5-555M)
Short Wave 18-6 Mc/s
(16-50M)

INTERMEDIATE FREQUENCY 455 Kc/s

POWER SUPPLY RATING 200-260 volts
50-60 C.P.S.

(Models are produced with other voltage and
frequency ratings)

POWER CONSUMPTION 60 watts

DIAL LAMPS 6.3 volts, 0.25
amp. M.E.S.

VALVE COMPLEMENT:

Models 615-T, 804-G, 804-GZ:

- (1) 6J8GA Converter
- (2) 6SK7GT I.F. Amplifier
- (3) 6SQ7GT Det., A.V.C., and A.F. Amplifier
- (4) 6V6GT/G Output
- (5) 6X5GT Rectifier

Model 615-TA:

- (1) 6J8GA Converter
- (2) 6SK7GT I.F. Amplifier
- (3) 6SQ7GT Det., A.V.C., and A.F. Amplifier
- (4) 6V6GT/G Output
- (5) 5Y3GT/G Rectifier

LOUDSPEAKER:

Model 615-T:

7 inch—Code No. AY38
Transformer—XA2
V.C. Impedance—3 ohms at 400 C.P.S.
Permanent Magnet

Model 615-TA:

7 inch—Code No. AW4
Transformer—XA1
V.C. Impedance—3 ohms at 400 C.P.S.
Field—1500 ohms

Model 804-G:

12 inch—Code Nos. AU32, AU42, AU44 or AU45
Transformer—TX2 on AU32
TU2 on AU42
TU202 on AU44 and AU45
V.C. Impedance—2.2 ohms at 400 C.P.S.
Permanent Magnet

Model 804-GZ:

12 inch—Code Nos. AU44 or AU45
Transformer—TU202
V.C. Impedance—2.2 ohms at 400 C.P.S.
Permanent Magnet

UNDISTORTED POWER OUTPUT:

Models 615-T, 804-G and 804-GZ 3 watts
Model 615-TA 4.5 watts

MECHANICAL SPECIFICATIONS.

	Height	Width	Depth
Cabinet Dimensions (ins.):			
615-T	10½	20¼	8⅞
615-TA	12	23	10⅞
804-G, 804-GZ	31	36	16⅞
Chassis Base Dimensions (ins.):			
615-T, 804-G, 804-GZ	2½	11	5½
615-TA	2⅞	12⅞	6⅞

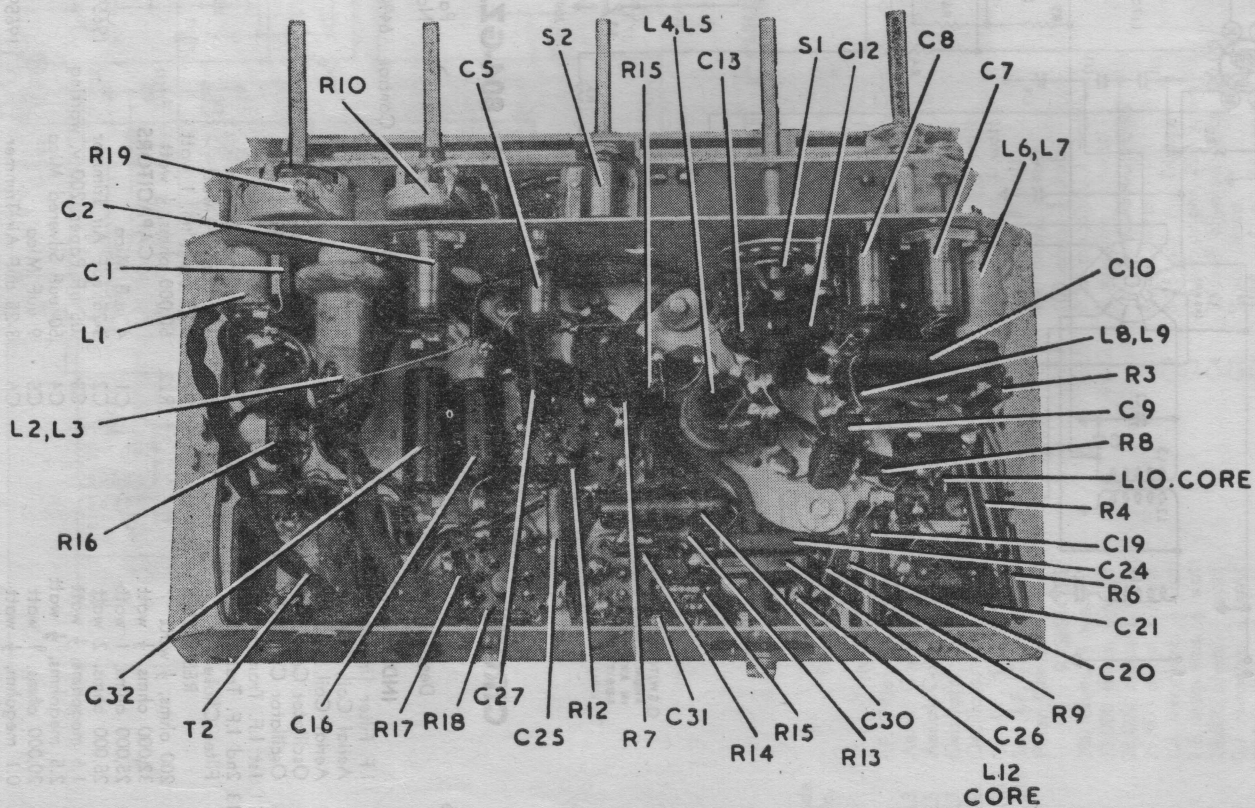
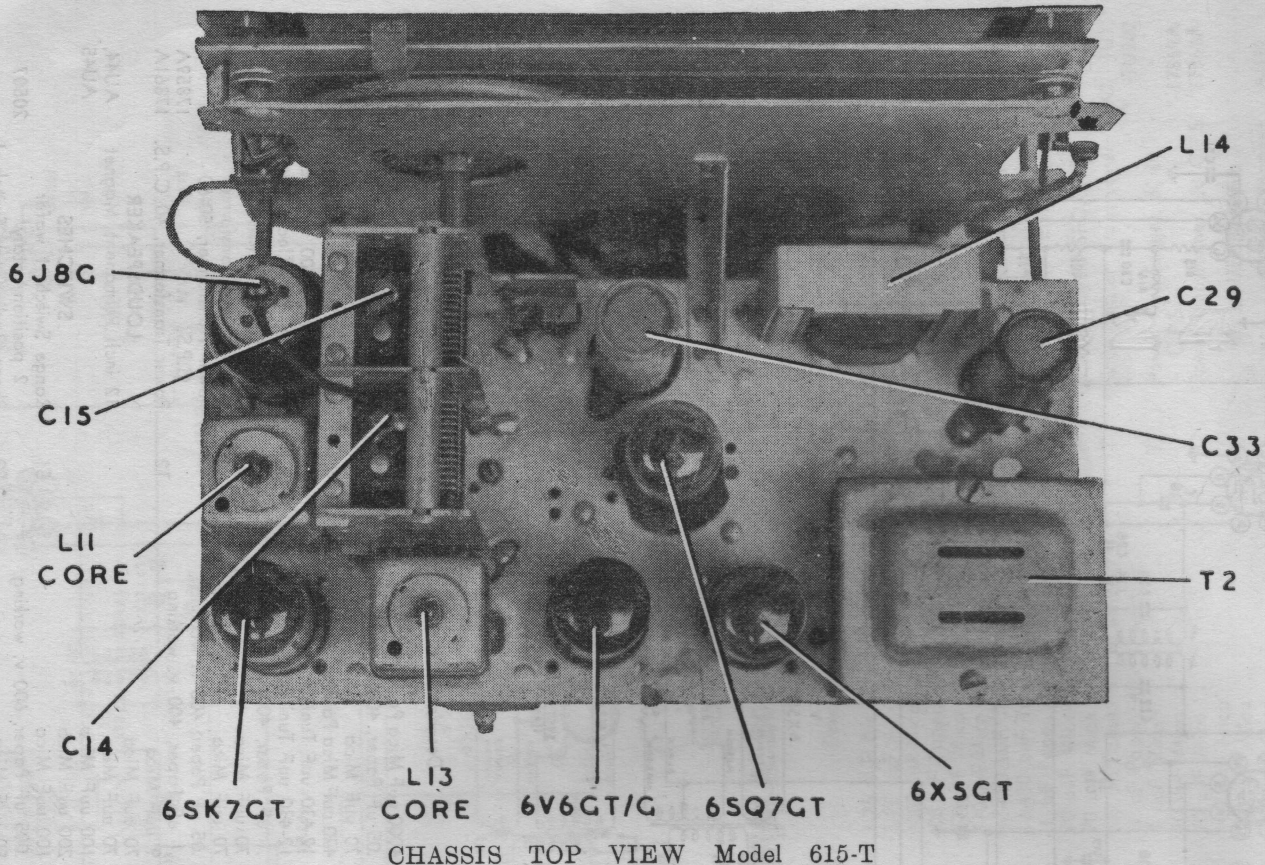
Carton Dimensions:

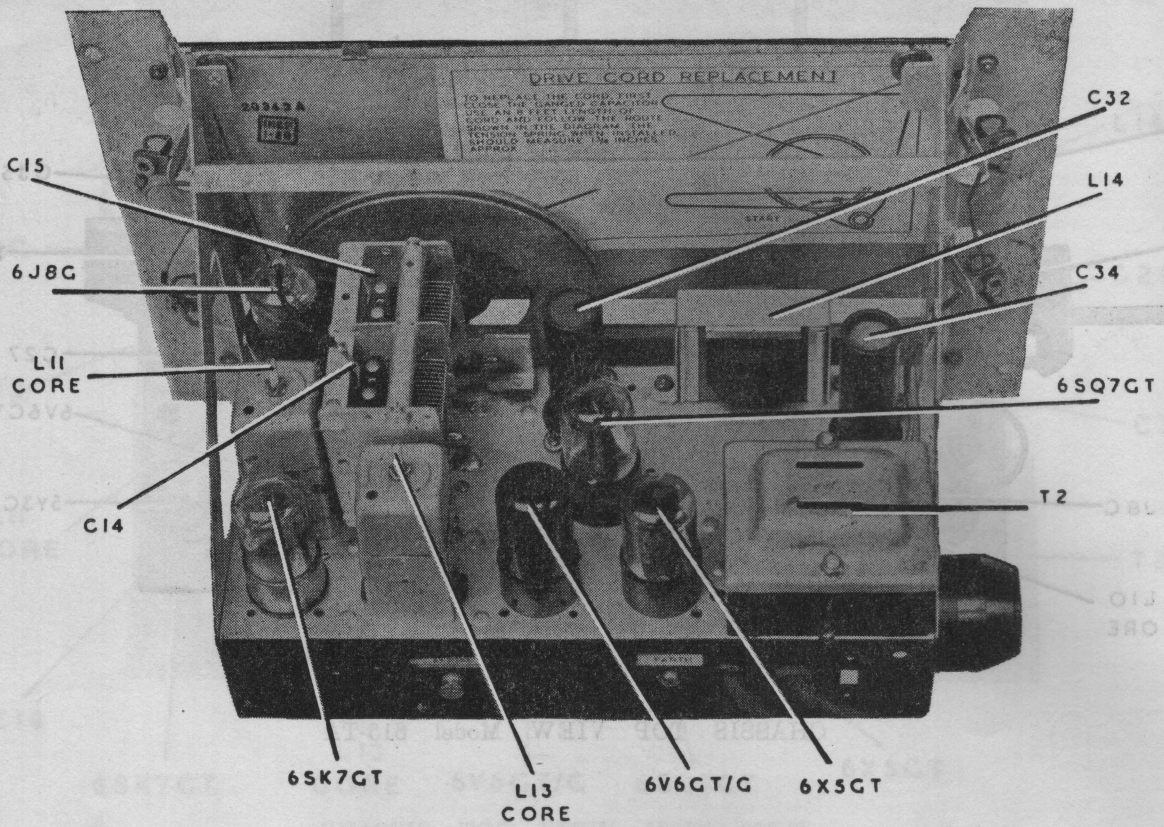
615-T	12	21¼	10½
615-TA	13½	24	12
804-G, 804-GZ	Crated		

Weight (nett lbs.):

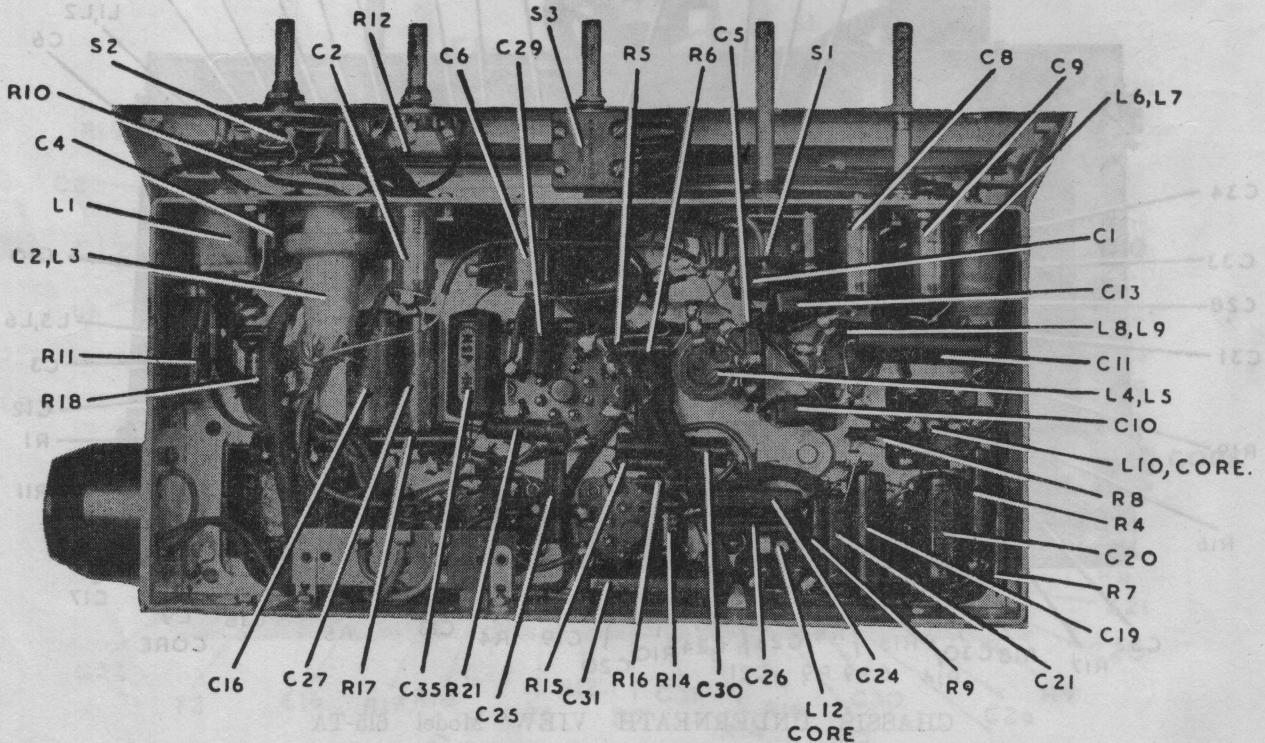
615-T	26 lbs.
615-TA	34 lbs.
804-G, 804-GZ	121 lbs.

Cabinet Finish Walnut Veneer





CHASSIS TOP VIEW Model 804-G



CHASSIS UNDERNEATH VIEW Model 804-G

GENERAL DESCRIPTION.

The models 615-T and 615-TA are 5 valve, two band, A.C. operated table model superheterodynes, and features of 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 dial with metropolitan stations printed in $\frac{1}{2}$ " high characters.

Models 804-G and 804-GZ are Radio-Phonograph combinations and have similar features.

In addition, the model 804-G incorporates the OAK Automatic Record Changer, whilst the model 804-GZ incorporates the Garrard RC70 Automatic Changer, features of these being: Permapoint needle plays 2000 records—plays up to ten 10" or 12" (not mixed) records without attention.

Synchronous motor and simple construction with minimum of working parts ensures trouble-free service.

In addition to models 804-G and 804-GZ, two further models in this series have been produced—namely 804-GX and 804-GY.

Except for cabinet differences, model 804-GX is identical with model 804-GZ, and model 804-GY with model 804-G.

The cabinets differ in that models 804-GX and 804-GY have a special record rack built into the side of the cabinet, whereas models 804-G and 804-GZ have no record rack.

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.

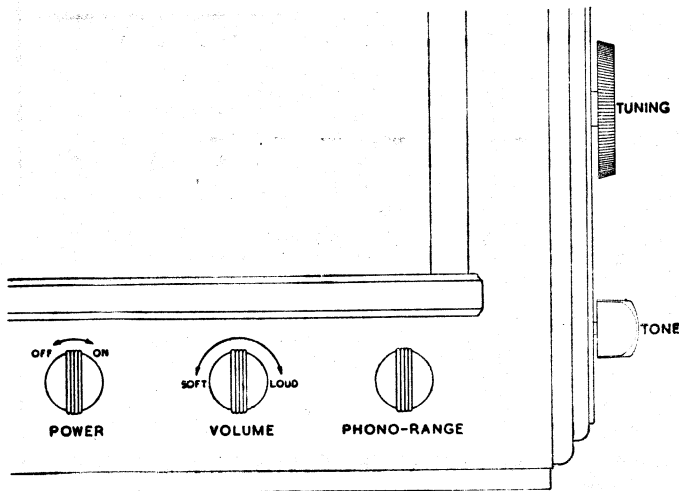
Under no circumstances should the plates of the ganged tuning capacitor be bent, as the unit is accurately aligned during manufacture and cannot be readjusted unless by skilled operators using specialised equipment.

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.

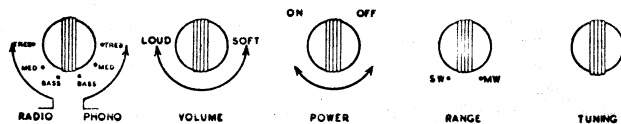
Testing Instruments.

- (1) A.W.A. Junior Signal Generator, type 2R3911, or
 - (2) A.W.A. Modulated Oscillator, type J6726.
- If the modulated oscillator is used, connect a 0.25 megohm non-inductive resistor across the output ter-

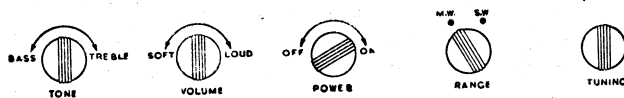
CONTROLS 615-TA



CONTROLS 804-G & 804-GZ



CONTROLS 615-T



minals, 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 — MODELS 615-T, 804-G, 804-GZ.

Order	Connect "high" side of Generator to:	Tune Generator to:	Tune Receiver Dial to:	Adjust for maximum peak output
1	6J8GA*	455 Kc/s	540 Kc/s	L13 Core
2	6J8GA*	455 Kc/s	540 Kc/s	L12 Core
3	6J8GA*	455 Kc/s	540 Kc/s	L11 Core
4	6J8GA*	455 Kc/s	540 Kc/s	L10 Core
Repeat the above adjustments until the maximum output is obtained.				
5	Aerial Terminal	600 Kc/s	600 Kc/s	L.F. Osc. Core Adj. (L7)†
6	Aerial Terminal	1500 Kc/s	1500 Kc/s	H.F. Osc. Adj.‡
7	Aerial Terminal	1500 Kc/s	1500 Kc/s	H.F. Aer. Adj. (C2)
Repeat adjustments 5, 6 and 7.				
8	Aerial Terminal	16 Mc/s	16 Mc/s	H.F. Osc. Adj.§
9	Aerial Terminal	16 Mc/s	16 Mc/s	H.F. Aer. Adj.¶

*With grid clip connected. An 0.001 uF capacitor should be connected in series with the "high" side of the test instrument.

†Rock the tuning control back and forth through the signal.

‡C7 in model 615-T, C8 in models 804-G, 804-GZ.

§C8 in model 615-T, C9 in models 804-G, 804-GZ. Use minimum capacity peak if two can be obtained. Check to determine that the trimmer has been adjusted to correct peak by tuning the receiver to approximately 15.09 Mc/s, where a weaker signal should be received.

¶C5 in model 615-T, C6 in models 804-G, 804-GZ. Use maximum capacity peak if two can be obtained.

SOCKET VOLTAGES — MODELS 615-T, 804-G, 804-GZ.

Valve	Cathode to Chassis Volts	Screen Grid to Chassis Volts	Anode to Chassis Volts	Anode Current mA	Heater Volts
6J8GA Converter: M.W.	1.5	70	240	1.0	6.3
S.W.	2.0	70	240	1.3	6.3
Oscillator: M.W.	—	—	115	5.0	—
S.W.	—	—	115	5.0	—
6SK7GT I.F. Amplifier	0	70	240	5.0	6.3
6SQ7GT 2nd Det., A.V.C. and A.F. Amp.	0	—	90*	0.6	6.3
6V6GT/G Output	13	240	225	40	6.3
6X5GT Rectifier	300	—	280 (A.C.)	—	6.3

Volts across back-bias resistor Model 615-T R16—3.0, Models 804-G, 804-GZ R18—3.0.

Total H.T. current—60mA.

Measured at 240 volts A.C. supply. No signal input. Volume Control maximum clockwise. Voltmeter 1000 ohms per volt; measurements taken on highest scale giving accurate readable deflection.

*This reading may vary depending on the resistance of the voltmeter used.

SOCKET VOLTAGES — MODEL 615-TA.

Valve	Control Grid to Chassis Volts	Cathode to Chassis Volts	Screen Grid to Chassis Volts	Plate to Chassis Volts	Plate Current mA	Heater Volts
6J8GA Converter	-2.6	0	85	260	1.3	6.3
Oscillator	—	—	—	150	5.0	—
6SK7GT I.F. Amplifier	-2.6	0	85	260	6.5	6.3
6SQ7GT Detector, A.V.C. and A.F. Amp.	0	0	—	100*	0.6	6.3
6V6GT/G Output	0	12.5	260	240	45	6.3
5Y3GT/G Rectifier	770/385 volts, 70 mA total current.					

*This reading may vary depending on the resistance of the voltmeter used.

Measurements taken with the receiver connected to 240 volts A.C. supply.

Range switch at "Broadcast" and no signal input. Volume Control maximum clockwise.

Voltmeter, 1000 ohms per volt; measurements taken on highest scale giving accurate readable deflection.

MECHANICAL REPLACEMENT PARTS.

Item	Part No.	Item	Part No.
Model 615-T			
Cabinet	C83	Knob, tuning	9407
Cable, aerial	15452	Screen, I.F. Transformer	3351
Cable, power	209	Cap	8372
Cable, speaker	19188	Socket, valve	4704
Cable, volume control	20416	Socket, valve cushion	20142
Chassis, end: Left hand	20124	Spindle, tuning control extension	19066
Right hand	22417	Spring, tension	1741
Clip, grid	7459	Strip, tag: 1 way	7628
Dial Frame Assembly	20514	5 way	8239
Dial Pointer Assembly	20522	7 way	9879
Dial Scale	20524 or	Terminal, spring	5458
	23313	Models 804-G, 804-GX, 804-GY, 804-GZ	
Dial Strap	20520	Cabinet 804-G	C82W
Dial Support Assembly	20518	804-GX	C82X
Drum, drive	20130	804-GY	C82Y
Knob	4589	804-GZ	C82Z
Socket, valve	4704	Cable, aerial	15452
Socket, valve cushion	20142	Cable, pick-up	20742
Spindle Assembly, drive	20505	Cable, power	20743
Strip, tag: 1 way	7628	Cable, phono-motor	21911
2 way	8863	Cable, speaker	19188
Terminal, aerial	17717	Cable, volume control	20416
		Chassis, end: Left hand	20316
		Right hand	22556
Model 615-TA		Clip, grid	7459
Cabinet	C77	Dial Frame Assembly	20343A
Cable, power	209	Dial Pointer Assembly	20331
Cable, speaker	17822	Dial Scale	20334 or
Cable, tone	20432		23311
Chassis, end	8411	Drum, drive	22542
Clip, grid	7459	Knob	4589
Dial Frame Assembly	20501A	Socket, valve	4704
Dial Pointer	9416	Socket, valve cushion	20142
Dial Scale	20334 or	Strip, tag: 1 way	7628
	23311	2 way	8863
Drum, drive	20544	3 way	8821
Knob	4589	Terminal, spring	5458

D.C. RESISTANCE OF WINDINGS.

Models 615-T, 804-G, 804-GZ

Model 615-TA

Winding	D.C. Resistance in ohms	Winding	D.C. Resistance in ohms
Aerial Coil (M.W.):		Aerial Coil (M.W.):	
Primary (L2)	30	Primary (L1)	13
Secondary (L3)	4	Secondary (L2)	4
Aerial Coil (S.W.):		Aerial Coil (S.W.):	
Primary (L4)	4	Primary (L3)	4
Secondary (L5)	*	Secondary (L4)	*
Oscillator Coil (M.W.):		Oscillator Coil (M.W.):	
Primary (L6)	2	Primary (L5)	1.75
Secondary (L7)	6	Secondary (L6)	7
Oscillator Coil (S.W.):		Oscillator Coil (S.W.):	
Primary (L8)	*	Primary (L7)	*
Secondary (L9)	*	Secondary (L8)	*
I.F. Transformer Windings	10	I.F. Transformer Windings	10
I.F. Filter (L1)	17.5†	Power Transformer (T1):	
Power Transformer (T2):		Primary	16
Primary	50	Secondary	520
Secondary	400	Loudspeaker Input Transformer (T2):	
Loudspeaker Input Transformer (T1):		XA1 Primary	500
XA2 Primary	450	XA1 Secondary	*
XA2 Secondary	*		
TU2 Primary	490		
TU2 Secondary	*		
TX2 Primary	430		
TX2 Secondary	*		
TU202 Primary	400		
TU202 Secondary	*		

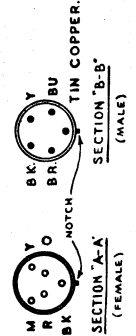
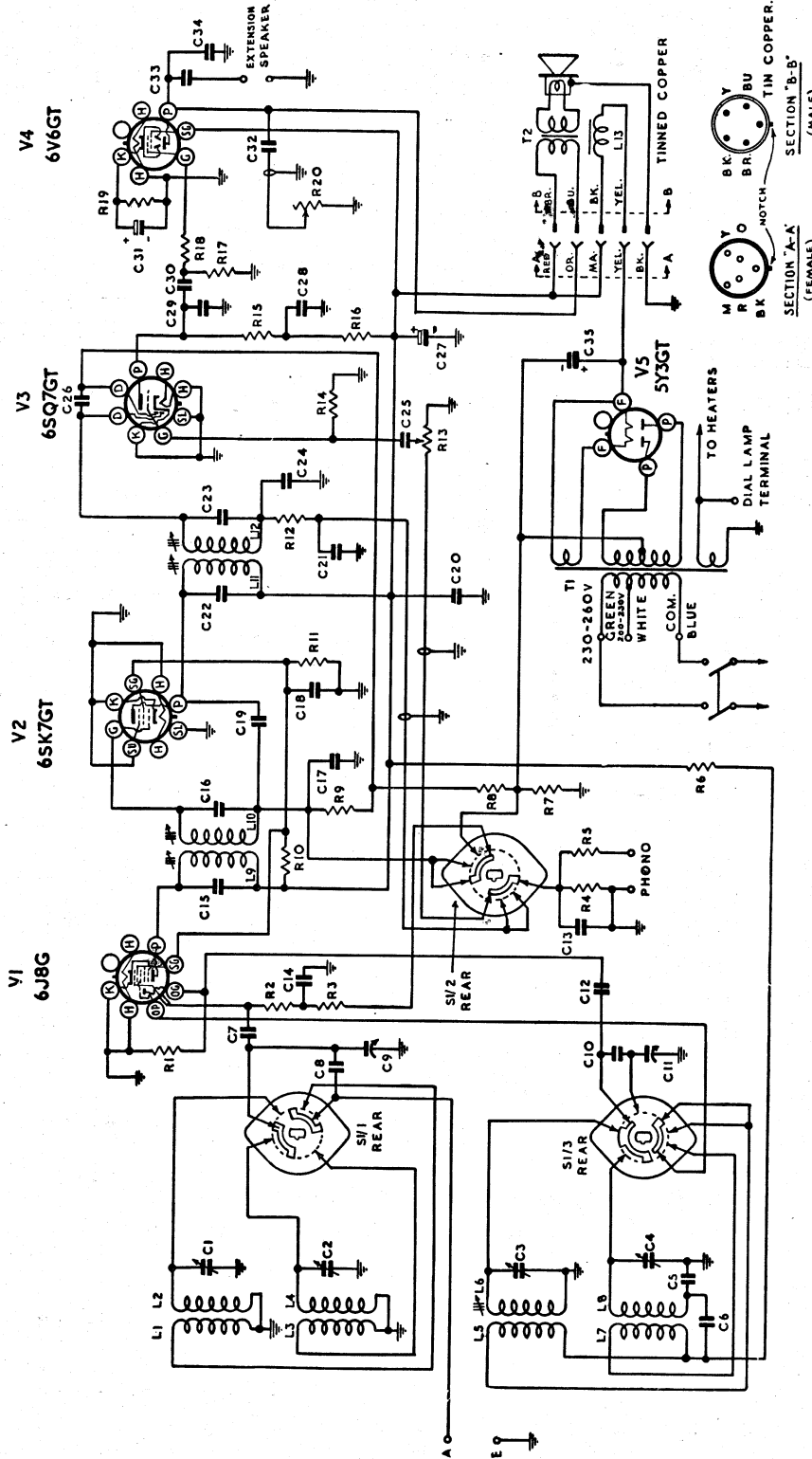
The above readings were taken on a standard chassis, but substitution of materials during manufacture may cause variations, and it should not be assumed that a component is faulty if a slightly different reading is obtained.

*Less than 1 ohm.

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

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.

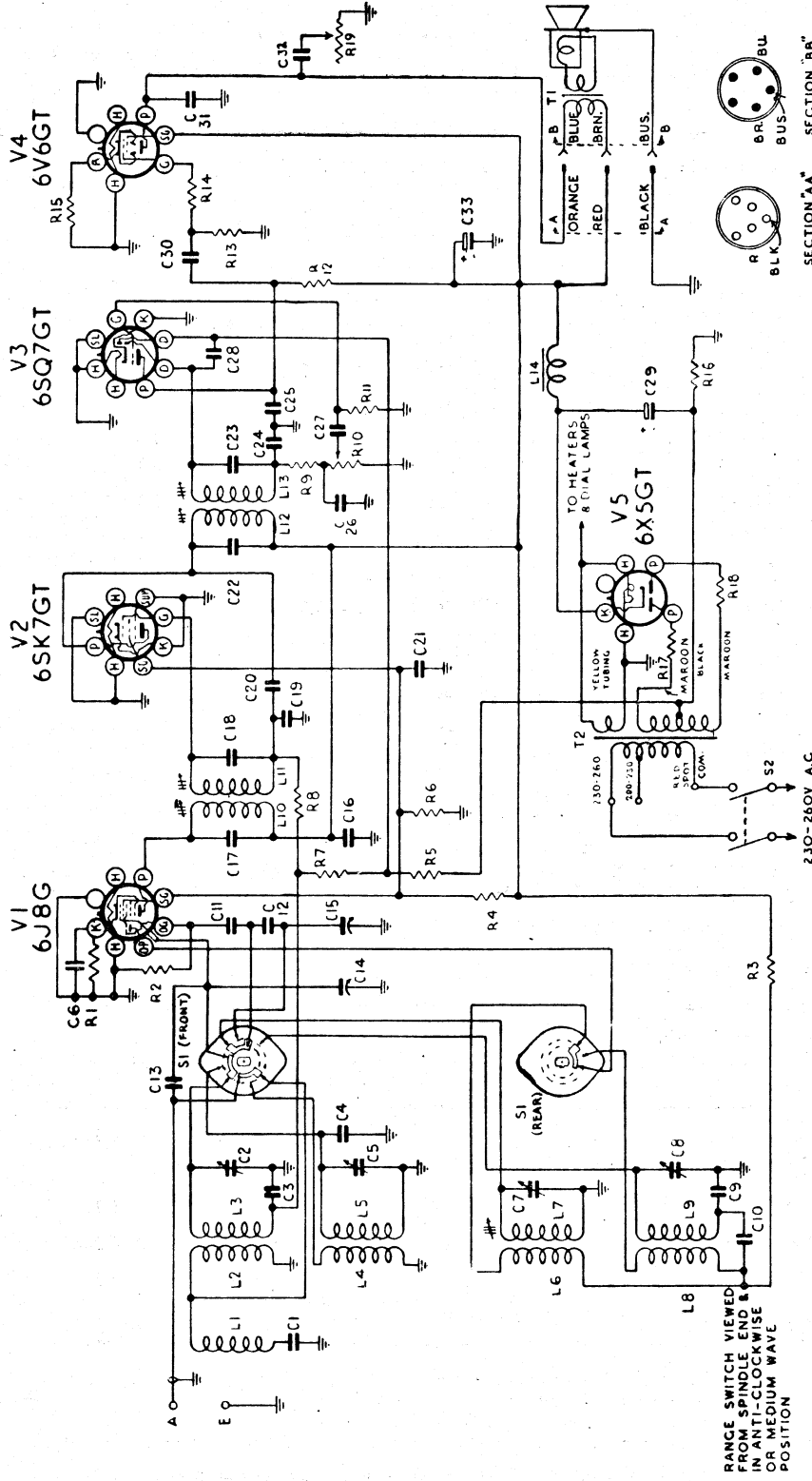
*Less than 1 ohm.



CIRCUIT CODE — MODEL 615-TA.

Code No.	Description	Part No.	Code No.	Description	Part No.	Code No.	Description	Part No.	Code No.	
L1, L2	Aerial Coil, 1600-540 Kc/s	9748A	R10	25,000 ohms, 2 watt		C7	200 uF Mica		C25	0.02 uF Paper, 600 v. working
L3, L4	Aerial Coil, 6-18 Mc/s	15456	R11	20,000 ohms, 1 watt		C8	4 uF Mica		C26	50 uF Mica
L5, L6	Oscillator Coil, 1600-540 Kc/s	9741	R12	50,000 ohms, 1/2 watt		C9	12-430 uF Tuning	20444	C27	16 uF 525 P.V. Electrolytic
L7, L8	Oscillator Coil, 6-18 Mc/s	15458	R13	0.5 megohm, Volume Control	19006	C10	490 uF Mica Padder, ± 2 1/2%		C28	0.5 uF Paper, 400 v. working
L9, L10	1st I.F. Transformer	20443	R14	10 megohms, 1 watt		C11	12-430 uF Tuning	20444	C29	200 uF Mica
L11, L12	2nd I.F. Transformer	8287Z	R15	0.25 megohms, 1 watt		C12	50 uF Mica		C30	0.01 uF Paper, 600 v. working
L13	Speaker Field, 1500 ohms		R16	20,000 ohms, 1 watt		C13	0.01 uF Paper, 600 v. working		C31	25 uF 40 P.V. Electrolytic
R1	32,000 ohms, 1/2 watt		R17	0.5 megohm, 1/2 watt		C14	0.05 uF Paper, 200 v. working		C32	0.05 uF Paper, 400 v. working
R2	1 megohm, 1/2 watt		R18	50,000 ohms, 1/2 watt		C15	70 uF Mica		C33	0.5 uF Paper, 400 v. working
R3	1 megohm, 1/2 watt		R19	250 ohms, 3 watt		C16	70 uF Mica		C34	0.005 uF Paper, 600 v. working
R4	50,000 ohms, 1/2 watt		R20	0.1 megohm, Tone Control	19923	C17	0.02 uF Paper, 600 v. working		C35	8 uF 525 P.V. Electrolytic
R5	20,000 ohms, 1/2 watt		C1	3-25 uF Air Trimmer	19659	C18	0.1 uF Paper, 400 v. working		TRANSFORMERS	
R6	20,000 ohms, 1 watt		C2	3-25 uF Air Trimmer	19659	C19	12 uF Mica		T1	Power Transformer, 50-60 C.P.S.
R7	40 ohms, 3 watt		C3	3-25 uF Air Trimmer	19659	C20	0.1 uF Paper, 400 v. working		T2	Power Transformer, 40 C.P.S.
R8	2.5 megohms, 1/2 watt		C4	3-25 uF Air Trimmer	19659	C21	100 uF Mica		Loudspeaker Transformer	
R9	1.6 megohms, 1/2 watt		C5	4000 uF Mica Padder, ± 2%	19659	C22	70 uF Mica		LOUDSPEAKER	
			C6	0.05 uF Paper, 400 v. working		C23	70 uF Mica		7 inch Electro-magnet	
						C24	100 uF Mica			

Part No.
11344
11346
XAI
AW4



RANGE SWITCH VIEWED FROM SPINDLE END & IN ANTI-CLOCKWISE OR MEDIUM WAVE POSITION

SECTION 'AA'

SECTION 'BB'

CIRCUIT CODE — MODEL 615-T.

Code No.	Description	Part No.	Code No.	Description	Part No.	Code No.	Description	Part No.	
L1	I.F. Filter (including C1)	9382	R10	0.5 megohm, Volume Control	6490	C9	4000 uuF padder ± 2½%	C28	50 uuF Mica
L2, L3	Aerial Coil, 540-1600 Kc/s	15454	R11	10 megohms, 1 watt		C10	.05 uuF Paper, 400 v. working	C29	8 uuF 525 P.V. Electrolytic
L4, L5	Aerial Coil, 6-18 Mc/s	15456	R12	0.25 megohm, 1 watt		C11	70 uuF Mica	C30	.02 uuF Paper, 600 v. working
L6, L7	Oscillator Coil, 540-1600 Kc/s	9206A	R13	5.0 megohm, ½ watt		C12	470 uuF padder ± 2½%	C31	.01 uuF Paper, 600 v. working
L8, L9	Oscillator Coil, 6-18 Mc/s	15458	R14	50,000 ohms, ½ watt		C13	4 uuF Mica	C32	.035 uuF Paper, 600 v. working
L10, L11	1st I.F. Transformer	22700	R15	325 ohms, 3 watt		C14	12-430 uuF Tuning	C33	16 uuF 525 P.V. Electrolytic
L12, L13	2nd I.F. Transformer	22703	R16	50 ohms, 3 watt		C15	12-430 uuF Tuning	T1	Loudspeaker Transformer
L14	Filter Choke	TU17	R17	100 ohms, ½ watt		C16	.1 uuF Paper, 400 v. working	T2	Power Transformer, 50-60 C.P.S.
R1	200 ohms, ½ watt		R18	100 ohms, ½ watt		C17	70 uuF Mica	T2	Power Transformer, 40 C.P.S.
R2	32,000 ohms, ½ watt.		R19	0.1 megohm, Tone Control	4284	C18	70 uuF Mica	T2	Power Transformer, 40 C.P.S.
R3	25,000 ohms, 1 watt		CAPACITORS			C19	0.05 uuF Paper, 600 v. working	S1	7 inch Permanent Magnet SWITCHES
R4	25,000 ohms, 2 watt		C1	50 uuF Silver Mica	19659	C20	9 uuF Mica	S2	Range Single Wafer, 4 pole 2 poles.
R5	2.5 megohms, ½ watt		C2	3-25 uuF Air Trimmer		C21	.1 uuF Paper, 400 v. working		Power D.P.S.T. Rotary
R6	20,000 ohms, 1 watt		C3	.05 uuF Paper, 200 v. working		C22	70 uuF Mica		
R7	1.6 megohm, ½ watt		C4	9 uuF Mica		C23	70 uuF Mica		
R8	0.1 megohm, ½ watt		C5	3-25 uuF Air Trimmer	19659	C24	100 uuF Mica		
R9	50,000 ohms, ½ watt		C6	0.1 uuF Paper, 200 v. working	19659	C25	200 uuF Mica		
			C7	3-25 uuF Air Trimmer	19659	C26	100 uuF Mica		
			C8	3-25 uuF Air Trimmer	19659	C27	.01 uuF Paper, 600 v. working		

ALIGNMENT TABLE — MODEL 615-TA.

Order	Connect "high" side of Generator to:	Tune Generator to:	Set Receiver Drive Drum Scale to:*	Adjust for maximum peak output
1	6J8GA†	455 Kc/s	0°	L12 Core
2	6J8GA†	455 Kc/s	0°	L11 Core
3	6J8GA†	455 Kc/s	0°	L10 Core
4	6J8GA†	455 Kc/s	0°	L9 Core
Repeat the above adjustments until the maximum output is obtained.				
5	Aerial Terminal	600 Kc/s	18°	L.F. Osc. Core Adj. (L6)‡
6	Aerial Terminal	1500 Kc/s	154°	H.F. Osc. Adj. (C3)
7	Aerial Terminal	1500 Kc/s	154°	H.F. Aer. Adj. (C1)
Repeat adjustments 5, 6 and 7.				
8	Aerial Terminal	16 Mc/s	149°	H.F. Osc. Adj. (C4)§
9	Aerial Terminal	16 Mc/s	149°	H.F. Aer. Adj. (C2)¶

*This refers to the 180° scale on the ganged tuning capacitor drive drum. In taking readings on this scale, read from the right-hand edge of the pointer, that is, the edge nearest the rear of the chassis. Check the setting of the drum before taking readings. The zero mark should be opposite the pointer with the tuning capacitor fully closed.

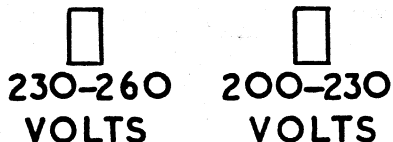
†With grid clip connected. An 0.001 uF capacitor should be connected in series with the "high" side of the test instrument.

‡Rock the tuning control back and forth through the signal.

§Use minimum capacity peak if two can be obtained. Check to determine that the trimmer 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 obtained.

RED DOT INDICATES COMMON CONNECTION FOR ALL VOLTAGES



Model 615-T

CONNECTION TO POWER SUPPLY.

The receiver should not be connected to any circuit supplying other than alternating current from 200-260 volts and at the frequency stated on the label within the cabinet. The power supply connections are shown in the accompanying diagrams.

CHASSIS REMOVAL.

Model 615-T:

First remove the control knobs—each is held by a set-screw.

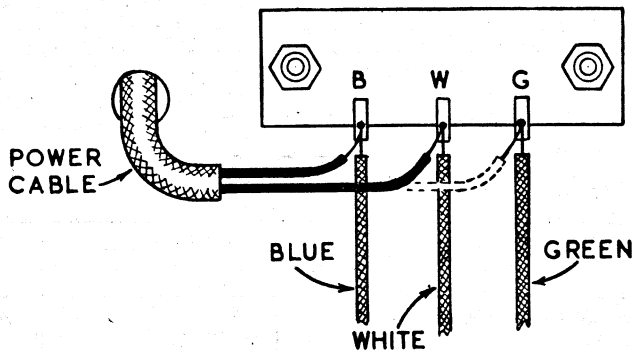
The chassis is held in the cabinet by two screws. Remove these and withdraw the chassis from the cabinet.

Model 615-TA:

Remove the control knobs from the front of the cabinet—each knob is held by a set-screw.

Pull the knobs from the tuning and tone control spindles. Disconnect the dial pointer from the drive cord, the cable from the loudspeaker, and the dial lamp leads from the chassis.

The chassis is held in the cabinet by four mounting bolts. Removal of these enables the chassis to be withdrawn.



Models 615-TA, 804-G, 804-GZ

Models 804-G, 804-GZ:

First remove the control knobs, which are each held by a set-screw.

Disconnect the phono motor, pick-up and loudspeaker cables.

The chassis is held in the cabinet by four winged nuts—two at each end of the dial frame assembly. Removal of these enables the chassis to be withdrawn from the cabinet.

DIAL POINTER ADJUSTMENT.

Models 615-T, 804-G, 804-GZ:

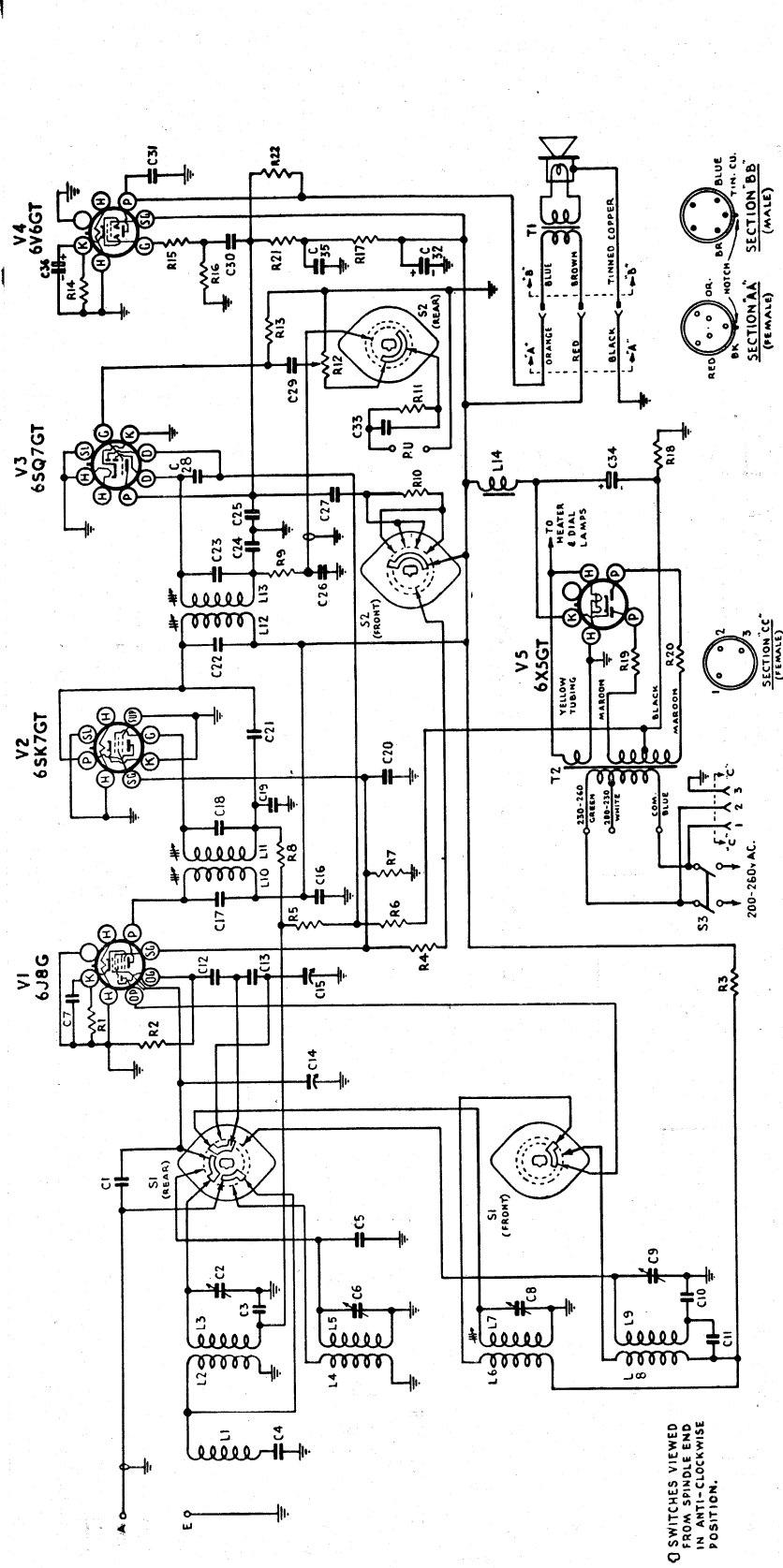
The dial pointer is held in position on the drive cord by two rubber-lined clips. To alter the position of the pointer, loosen the two holding clips slightly and move the pointer in the required direction. It is important to reclamp the clips after any adjustment of the dial pointer.

Model 615-TA:

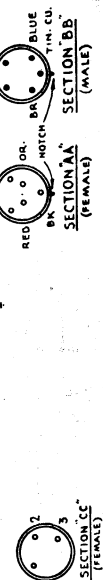
The dial pointer and drive cord are connected by a thumb-screw. Loosen this, move the pointer in the required direction and retighten the thumb-screw.

DRIVE CORD REPLACEMENT.

Follow the diagram which is affixed to the back of the dial frame assembly. This shows the route of the cord and the method of attachment.



Q SWITCHES VIEWED FROM SPINDLE END IN ANTI-CLOCKWISE POSITION.



CIRCUIT CODE — RADIOLA 804-G.

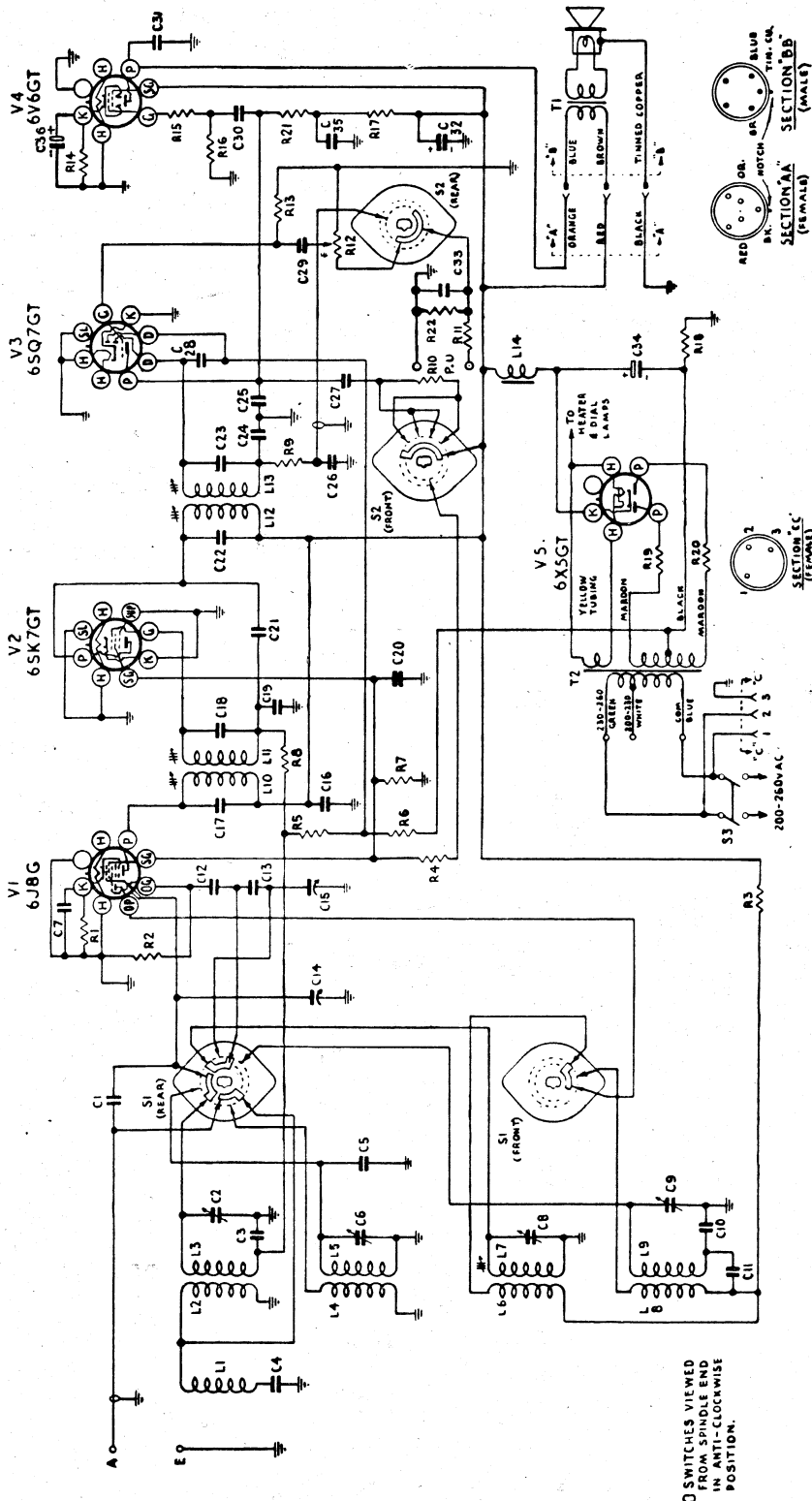
Code No.	Description	Part No.	Code No.	Description	Part No.	Code No.	Description	Part No.
L1	I.F. Filter (including C4)	9382	R11	1.6 megohm, 1/2 watt	19659	C28	50 ufF Mica	18201
L2, L3	Aerial Coil, 540-1600 Kc/s	15454	R12	0.5 megohm, Volume Control	19659	C29	.01 uf Paper, 600 v. working	18201
L4, L5	Aerial Coil, 6-18 Mc/s	15456	R13	10 megohms, 1 watt		C30	.01 uf Paper, 600 v. working	
L6, L7	Oscillator Coil, 540-1600 Kc/s	9206A	R14	325 ohms, 1 watt		C31	.005 uf Paper, 600 v. working	
L8, L9	Oscillator Coil, 6-18 Mc/s	15458	R15	50,000 ohms, 1/2 watt		C32	16 uf 525 P.V. Electrolytic	
L10, L11	1st I.F. Transformer	15458	R16	0.5 megohm, 1/2 watt		C33	500 ufF Mica	
L12, L13	2nd I.F. Transformer	22703	R17	50,000 ohms, 1 watt		C34	8 uf 525 P.V. Electrolytic	
L14	Filter Choke	TU17	R18	50 ohms, 3 watt		C35	.1 uf Paper, 400 v. working	
R1	200 ohms, 1/2 watt		R19	100 ohms, 1/2 watt		C36	25 uf 40 P.V. Electrolytic	
R2	32,000 ohms, 1/2 watt		R20	100 ohms, 1/2 watt		T1	Loudspeaker Transformer TX2, TU2, TU202	
R3	25,000 ohms, 1 watt		R21	0.25 megohm, 1 watt		T2	Power Transformer, 50-60 C.P.S.	
R4	25,000 ohms, 2 watt		R22	1 megohm, 1 watt				
R5	1.6 megohms, 1/2 watt		C1	4 ufF Mica	19659			
R6	2.5 megohms, 1/2 watt		C2	3-25 ufF Air Trimmer				
R7	20,000 ohms, 1 watt		C3	.05 uf Paper, 200 v. working				
R8	0.1 megohm, 1/2 watt		C4	50 ufF Silvered Mica				
R9	50,000 ohms, 1/2 watt		C5	9 ufF Mica				
R10	50,000 ohms, 1/2 watt		C6	3-25 ufF Air Trimmer	19659			
			C7	0.1 uf, 200 v. working				
C8	3-25 ufF Air Trimmer	6490	C8	3-25 ufF Air Trimmer				
C9	3-25 ufF Air Trimmer		C9	4000 ufF Mica Padder, ± 2 1/2%				
C10	4000 ufF Mica Padder, ± 2 1/2%		C10	.05 uf Paper, 400 v. working				
C11	.05 uf Paper, 400 v. working		C11	70 ufF Mica				
C12	70 ufF Mica		C12	70 ufF Mica				
C13	470 ufF Mica Padder, ± 2 1/2%		C13	470 ufF Mica Padder, ± 2 1/2%				
C14	12-430 ufF Tuning		C14	12-430 ufF Tuning				
C15	12-430 ufF Tuning		C15	.1 uf Paper, 400 v. working				
C16	.1 uf Paper, 400 v. working		C16	.1 uf Paper, 400 v. working				
C17	70 ufF Mica		C17	70 ufF Mica				
C18	70 ufF Mica		C18	70 ufF Mica				
C19	.05 uf Paper, 400 v. working		C19	.05 uf Paper, 400 v. working				
C20	.9 ufF Mica		C20	.9 ufF Mica				
C21	9 ufF Mica		C21	9 ufF Mica				
C22	70 ufF Mica		C22	70 ufF Mica				
C23	70 ufF Mica		C23	70 ufF Mica				
C24	100 ufF Mica		C24	100 ufF Mica				
C25	200 ufF Mica		C25	200 ufF Mica				
C26	100 ufF Mica		C26	100 ufF Mica				
C27	.005 uf Paper, 600 v. working		C27	.005 uf Paper, 600 v. working				
S1 (FRONT)	Speaker		S1 (REAR)	Speaker				
S2 (FRONT)	Speaker		S2 (REAR)	Speaker				
S3	Switch (Green, White, Blue)		S3	Switch (Green, White, Blue)				
T1	Loudspeaker Transformer		T1	Loudspeaker Transformer				
T2	Power Transformer		T2	Power Transformer				
T2	Power Transformer, 40 C.P.S.		T2	Power Transformer, 40 C.P.S.				
T2	Power Transformer		T2	Power Transformer				
T2	Power Transformer		T2	Power Transformer				

INDUCTORS

RESISTORS

CAPACITORS

LOUDSPEAKER



CIRCUIT CODE — RADIOLA MODEL 804-GZ.

Code No.	Description	Part No.	Code No.	Description	Part No.	Code No.	Description	Part No.	
L1	I.F. Filter (including C4)	9382	R12	0.5 megohm, Volume Control	6490	C10	4000 uuF Mica Padder, $\pm 2\frac{1}{2}\%$	C31	.005 uF Paper, 600 v. working
L2, L3	Aerial Coil, 540-1600 Kc/s	15454	R13	10 megohms, 1 watt		C11	.05 uF Paper, 400 v. working	C32	16 uF 525 P.V. Electrolytic
L4, L5	Aerial Coil, 6-18 Mc/s	15456	R14	325 ohms, 1 watt		C12	70 uuF Mica	C33	0.01 uF Paper, 600 v. working
L6, L7	Oscillator Coil, 540-1600 Kc/s	9206A	R15	50,000 ohms, $\frac{1}{2}$ watt		C13	470 uuF Mica Padder, $\pm 2\frac{1}{2}\%$	C34	8 uF 525 P.V. Electrolytic
L8, L9	Oscillator Coil, 6-18 Mc/s	15458	R16	0.5 megohm, $\frac{1}{2}$ watt		C14	12-430 uuF Tuning	C35	.1 uF Paper, 400 v. working
L10, L11	1st I.F. Transformer	22700	R17	50,000 ohms, 1 watt		C15	12-430 uuF Tuning	C36	25 uF 40 P.V. Electrolytic
L12, L13	2nd I.F. Transformer	22703	R18	50 ohms, 3 watt		C16	.1 uF Paper, 400 v. working		
L14	Filter Choke	TU17	R19	100 ohms, $\frac{1}{2}$ watt		C17	70 uuF Mica		
R1	200 ohms, $\frac{1}{2}$ watt		R20	100 ohms, $\frac{1}{2}$ watt		C18	70 uuF Mica	T1	Loudspeaker Transformer
R2	32,000 ohms, $\frac{1}{2}$ watt		R21	100 ohms, $\frac{1}{2}$ watt		C19	.05 uF Paper, 400 v. working	T2	Power Transformer, 50-60 C.P.S.
R3	25,000 ohms, 1 watt		R22	0.25 megohm, 1 watt		C20	.1 uF Paper, 400 v. working		
R4	25,000 ohms, 2 watt		CAPACITORS				C21	9 uuF Mica	
R5	1.6 megohms, $\frac{1}{2}$ watt		C1	4 uuF Mica		C22	70 uuF Mica		
R6	2.5 megohms, $\frac{1}{2}$ watt		C2	3-25 uuF Air Trimmer	19659	C23	70 uuF Mica		
R7	20,000 ohms, 1 watt		C3	.05 uF Paper, 200 v. working		C24	100 uuF Mica		
R8	0.1 megohm, $\frac{1}{2}$ watt		C4	50 uuF Silvered Mica		C25	200 uuF Mica		
R9	50,000 ohms, $\frac{1}{2}$ watt		C5	9 uuF Mica		C26	100 uuF Mica		
R10	50,000 ohms, $\frac{1}{2}$ watt		C6	3-25 uuF Air Trimmer	19659	C27	.005 uF Paper, 600 v. working		
R11	20,000 ohms, $\frac{1}{2}$ watt		C7	0.1 uF Paper, 200 v. working		C28	50 uuF Mica		
			C8	3-25 uuF Air Trimmer	19659	C29	.01 uF Paper, 600 v. working		
			C9	3-25 uuF Air Trimmer	19659	C30	.01 uF Paper, 600 v. working		

TRANSFORMERS

- T1 Loudspeaker Transformer
- T2 Power Transformer, 50-60 C.P.S.
- T2 Power Transformer, 40 C.P.S.

LOUDSPEAKER

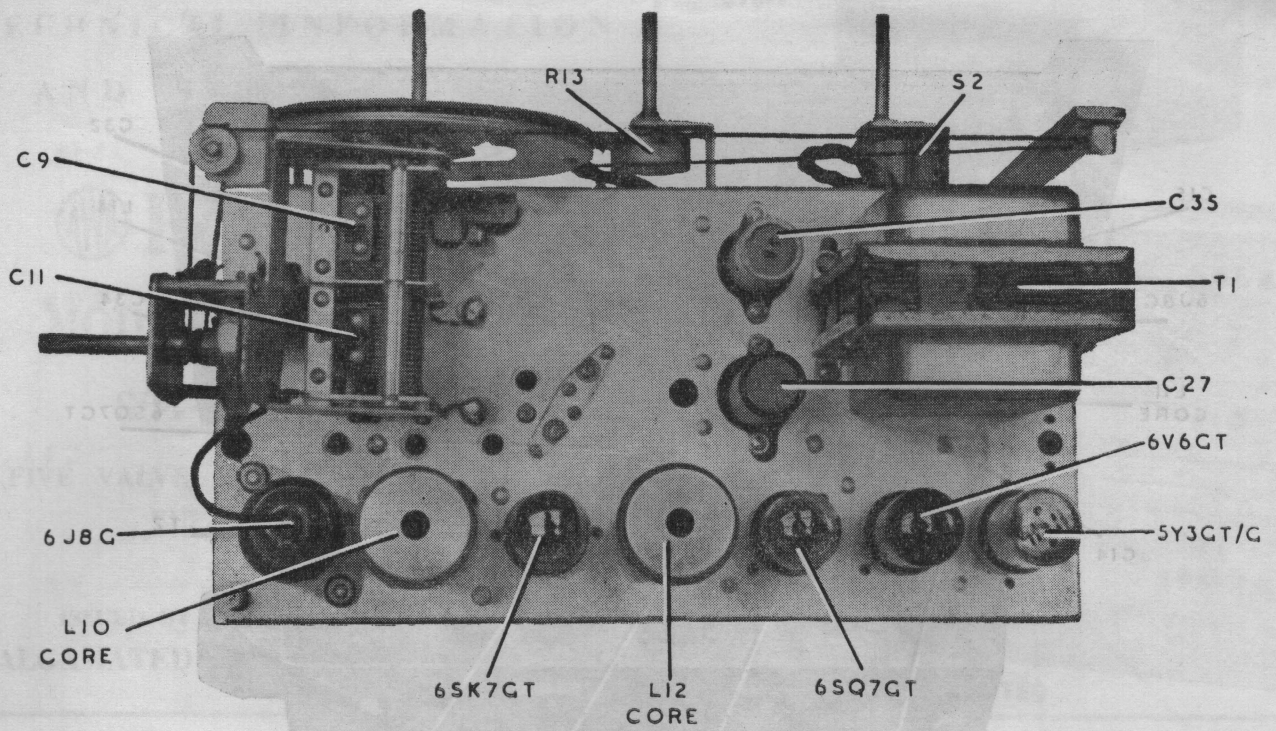
- 12 inch Permanent Magnet
- AU44, AU45

SWITCHES

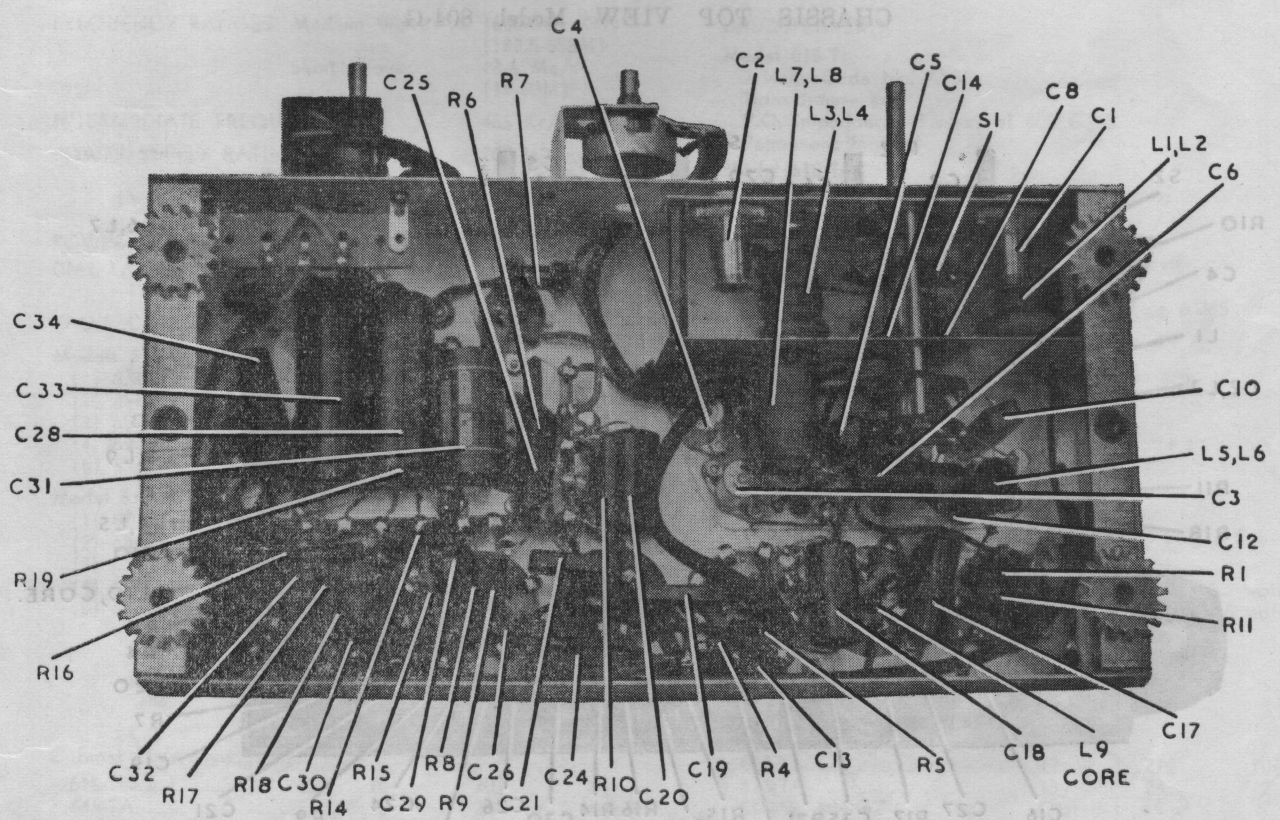
- S1 Range Switch, 1 wafer
- 2 position rotary
- S2 Phony/Radio/Tone Switch, 1 wafer 6 position rotary
- S3 Power Switch D.P.S.T.

SWITCHES VIEWED FROM SPINDLE END IN ANTI-CLOCKWISE POSITION.

SECTION AA (FEMALE)
 RED O O O
 BK. • • •
 BR. • • •
 BLUE • • •
 SECTION AA (MALE)
 BR. • • •
 BLUE • • •
 BROWN • • •
 SECTION BC (FEMALE)
 RED O O O
 BK. • • •
 BR. • • •
 BLUE • • •



CHASSIS TOP VIEW Model 615-TA



CHASSIS UNDERNEATH VIEW Model 615-TA