WESTINGHOUSE THEATRE-GRAM MODELS W2344 & W2344Z



Issued by: EMAIL LIMITED

Consumer Products Division (Sydney)

RADIOGRAM



TELEVISION

B44

GENERAL DESCRIPTION

Westinghouse Theatre-gram Models W2344 and W2344Z consist of two separate and independent electronic units housed in one cabinet.

The radiogram unit consists of an eight-valve stereophonic radio-phonograph chassis, a four-speed automatic record changer, a microphone, three-speaker stereophonic network, record storage space and controls, press buttons and jacks housed in the left-hand side of the cabinet.

The television unit in Model W2344 consists of a standard 34 series TV chassis (34-26) and TA1 (44000) type Turret Tuner with Concentric Fine Tuning housed in the right-hand side of the cabinet.

In Model W2344Z the television unit used is a 34-40 series TV chassis (34-43).

This manual will cover completely the radiogram chassis, all mechanical replacement parts associated with the radiogram chassis and the cabinet fittings and those items on the television that are peculiar to these models. For alignment procedure and code list for the TV chassis refer to the 34 Series TV Chassis Service Manual issued September, 1963, or to the 34-40 series TV Chassis Service Manual issued August, 1965, as the case may be, and for all information pertaining to the TV Tuner refer to Service Data for the 13 Channel TV Turret Tuner TA1 series issued in February, 1964.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

KADIOOKAM
Frequency Range
POWER CONSUMPTION
Receiver Chassis
UNDISTORTED POWER OUTPUT: 2.5 Watts per channel SPEAKER COMPLEMENT
9" x 6", one per channel
V.C. IMPEDANCE
Dimensions 34" Height 34" Width 49" Depth 17" Weight 180 lbs.
VALVE COMPLEMENT
V1 Radiotron 6BE6 Converter V2 Radiotron 6N8 I.F. Ampl., Detector, A.G.C. V3 Radiotron 6AU6 Audio Amplifier V4 Radiotron 6AU6 Audio Amplifier V6 Radiotron 6AQ5 Audio Output V7 Radiotron 6AV6 Audio Output V7 Radiotron 6AV6 Mic. Amplifier V8 Radiotron 6X4 Rectifier

TELEVISION VALVE COMPLEMENT

V1	Radiotron	6ES8 R.F. Amplifier
V2	Radiotron	6HG8 R.F. Oscillator and Converter
V101	Radiotron	6AU6 Sound I.F.
V102	Radiotron	6AL5 Ratio Detector
V103	Radiotron	6AV6 Audio Ampl. and A.G.C. Clamp
V104	Radiotron	6AQ5 Audio Output
V201	Radiotron	6BZ6 1st Video I.F.
V202	Radiotron	6EW6 2nd Video I.F.
V203	Radiotron	6CB6 3rd Video I.F.
V204	Radiotron	6EB8 Video Ampl. and Sync. Ampl.
V205	Radiotron	6CG7 Video Control and Vert. Osc.
V206		23CP4 Picture Tube
V207	Radiotron	6BQ7-A . Noise Detector and A.G.C. Compensator (34-43 chassis)
V301	Radiotron	6HS8 Noise Gated A.G.C. and Sync. Sep.
V302	Radiotron	6EM5 Vertical Output
V401	Radiotron	6AL5 Phase Discriminator
V402	Radiotron	6CG7 Buffer and Horizontal Oscillator
V403	Radiotron	6CM5 Horizontal Output
V404	Radiotron	6AU4-GTA Damper
V405	Radiotron	1B3-GT High Voltage Rectifier
MR20	1 GD3, OA	80, etc Video Detector
MR40	1 1N1763	or 1N3194 Rectifier
MR40	2 1N1763	or 1N3194 Rectifier

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CHASSIS REMOVAL AND INSTALLATION

For convenience and speed in repair work the chassis is so arranged that it may be swung out at right angles to the cabinet, thus providing excellent accessibility.

Disconnect the aerial lead-in, carefully remove cabinet back and lower slightly to enable the aerial on the radiogram to be disconnected.

Remove the bottom right-hand mounting bolt beside the power transformer and loosen the upper right-hand mounting bolt.

Remove all leads from lead guides on the top of the chassis. Swing the chassis out to its stop screw; complete servicing is then available for the chassis.

If the chassis has to be completely removed, proceed as follows:—

Disconnect the ultor lead, picture tube socket, yoke plug, mains power plug and speaker plug.

Disconnect the two chassis earth straps from the chassis by loosening their retaining screws.

Remove all the television control knobs on the end of the cabinet; all knobs are a push-on fit.

Remove the control escutcheon by removing the two philips head screws.

Remove the two countersunk screws that are now exposed and remove the aerial lead from the tuner.

Securely holding tuner in left hand, remove the rear mounting self-tapping screw at the earth strap point; gently remove the tuner and control bracket assembly and place it on top of the chassis.

Remove the bottom left-hand pivot bolt and the top left-hand pivot screw and bush, gently remove the tuner and chassis assembly, place it on the floor and remove the TV pilot light from the front baffle. The two "L" shaped notches on the control panel will now locate onto the screw and lug next to the second and third i.f. stages on the valve side of the chassis and, when the screw is tightened, the control bracket assembly will be secured to the chassis with the tuner facing the wiring side.

Chassis installation is the reverse of the above procedure, but make sure of the following points:—

A plain washer must be in position under the chassis for the bottom left-hand pivot bolt.

The yoke, kine and ultor leads must be properly dressed in the two insulated lead guides.

The ultor lead must be replaced in its retainer on the righthand side of the picture tube.

Place the spacing washers (if any were included in the original assembly) in position on the control bracket assembly before re-assembly to the cabinet.

Make sure that the earthing strap is fitted under the rear tuner mounting and connect the side chassis earth strap last

PICTURE TUBE HANDLING AND PRECAUTIONS

Do not install, remove or handle the picture tube in any manner unless shatterproof goggles are worn.

Keep the picture tube away from the body while handling.

PICTURE TUBE REMOVAL AND INSTALLATION

Remove the chassis as described above and also remove the upper left-hand pivoting bracket.

Remove the four mounting bolts, noting that the bottom bolts have cut-down washers and the tuner earth strap is clamped underneath the top left-hand mounting point.

Gently remove and place the picture tube face down on a soft, clean surface.

Loosen the two saddle tension screws and the saddle assembly can be removed from the picture tube.

Loosen the screw securing the yoke clamping ring and remove the yoke assembly.

Installation of picture tube is the reverse of the above procedure, taking note of the following points:—

The top moulded corner spacers are located in the recesses of the cradle assembly and the packing pieces are located on the picture tube adjacent to the saddle tension screws before tensioning the cradle assembly.

Make sure that the picture tube earthing spring is secured across the lower cradle strap.

When viewed from the rear of the cabinet the high voltage contact is on the right-hand side of the picture tube.

When installing in the cabinet, start all mounting bolts in their respective holes; tighten the two lower bolts, making sure that the picture tube is centrally located and firmly pressed against the mask.

Pressing the top of the picture tube cradle assembly so that the picture tube is securely pressed against the top of the mask, tighten the top right-hand mounting bolt, place the tuner earthing strap under the top left-hand mounting and tighten the bolt.

MASK REMOVAL

Remove the chassis and picture tube as above.

The mask is removed by swinging bottom of mask out and removing from cabinet.

Installation is the reverse of the above procedure.

RADIOGRAM

CHASSIS REMOVAL

Disconnect the aerial lead-in, carefully remove the cabinet back and lower slightly to enable the aerial on the radiogram to be disconnected.

Unplug the receiver from the power point, disconnect the speaker, pickup and phono motor cables from the chassis and the indicator and record compartment lamps from the cabinet.

On early models remove the speaker leads from the speakers. The black/white leads go to the speaker on the TV end of the baffle, and for both channels the black lead goes to the + speaker terminal.

On later models remove the five-pin plug carrying the speaker and pilot lamp leads from the chassis.

Remove the three mounting bolts and gently remove the radiogram chassis.

The chassis installation is the reverse of the above procedure.

RECORD CHANGER REMOVAL

Remove the cabinet back as above.

Remove the motor power and pickup input leads from the chassis, remove the screw securing the cable clamp and pass the leads and plugs through the hole into the record changer compartment.

Slide the record changer out until it hits the rubber stops. Remove the rubber stops and then remove the record player and base board assembly.

Turn the unit upside down and two large holes will be observed; through these holes will be seen the clips which secure the record player; compress the springs by hand and swing the clips over so that they are parallel to the screws, align them with the holes in the base board and lift it free.

The record changer installation is the reverse of the above procedure.

DIAL CORD REPLACEMENT

Fig. 1 shows the route of the cord and the method of attachment.

If the pointer has for any reason been dislodged from the guide rail, it will be necessary to remove the front escutcheon which is attached to the chassis by four screws.

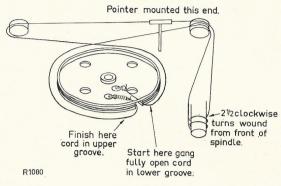


Fig. 1

FRONT DOOR REMOVAL

The front sliding door may be readily removed from the cabinet by lifting the door up and tilting the base outward to clear the guide rail. Slight downward pressure at the middle of the guide rail may sometimes be necessary if any fouling is noticed.

LUBRICATION OF RECORD CHANGER DRAWER

The sliding mechanism for this drawer consists of a nylon rail protruding from each side wall of the changer compartment and mating with a female strip set into each side of the drawer. Silicone grease or some similar lubricant applied to the relevant surfaces will always ensure a smooth, gliding action.

LAMP REPLACEMENT

It should be carefully noted that both 6 and 12 volt pilot lamps are used in this combination unit. Both indicating lights on the front baffle are 12 volt, while all others are 6 volt.

All lights, except the dial scale and channel indicator lights, are readily accessible on removing the cabinet back. The latter are available on removing the radiogram chassis and TV tuner respectively.

SPEAKER BAFFLE REMOVAL

Remove the cabinet back as before.

Remove the four screws on the upper edge of the baffle (from the rear); the baffle will now tilt forward out of the cabinet.

For all speaker interconnection refer to the speaker wiring diagram on the baffle.

The speaker baffle installation is the reverse of the above procedure.

SPEAKER PHASING

It is essential that speakers are correctly phased. For this reason all speakers have a + mark against one of the voice coil terminals. (This indicates that when a positive voltage is applied to this terminal the cone will move away from the magnet housing.) These phasing marks are indicated on the circuit diagram and on the following speaker wiring diagram.

SPEAKER WIRING DIAGRAM

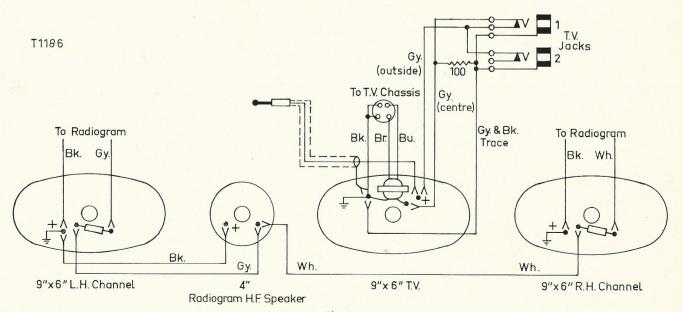


Fig. 2

ALIGNMENT PROCEDURE

MANUFACTURER'S SETTING OF ADJUSTMENTS

The receiver is tested by the manufacturer with precision instruments and all adjusting screws are sealed. Re-alignment 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 specially important that the adjustments should not be altered unless the correct testing instruments, listed below, are used.

Under no circumstances should the plates of the ganged tuning capacitor be bent, as the unit is accurately aligned during manufacture and can only be re-adjusted by skilled operators using special equipment.

For all alignment operations, keep the generator output as low as possible to avoid a.g.c. action. Also keep the volume control in the maximum clockwise position.

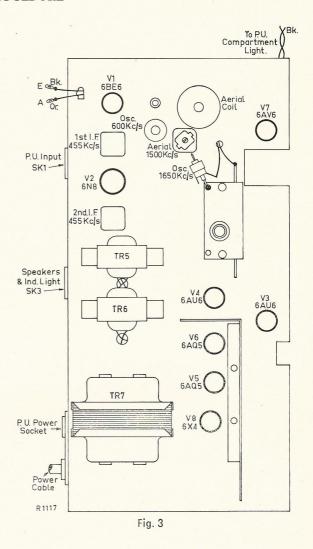
TESTING INSTRUMENTS

- (1) Signal Generator, modulated at 400 c.p.s., or
- (2) Modulated Oscillator. If the modulated oscillator is used, connect an 0.22 megohm non-inductive resistor across the output terminals.
- (3) Output Meter-15 ohms impedance.

In order to avoid damage to output valves and associated circuitry when the chassis is being tested, it is necessary to provide a load on both audio amplifiers. Hence a 15 ohms 3 watt resistor should be connected to the voice coil terminals of the amplifier which is not loaded with the output meter.

Set the balance control to the position which gives maximum audio output on the output meter.

Set the volume and treble controls to the maximum clock wise position.



ALIGNMENT TABLE

ORDER	CONNECT "HIGH" SIDE OF GENERATOR TO:	TUNE GENERATOR TO:	TUNE RECEIVER TO:	ADJUST FOR MAXIMUM PEAK OUTPUT:						
1	Grid of 6BE6 Rear Section of Gang	455 Kc/s	Gang fully closed	Top and Bottom Cores in TR4 and TR3						
Repeat adjustments until maximum output is obtained. Then using a dummy aerial:										
2	Aerial lead	600 Kc/s	600 Kc/s	L.F. Osc. Core Adj. (TR2)*						
3	Aerial lead	1,650 Kc/s	Gang fully open	H.F. Osc. Adj. (C8)						
4	Aerial lead	1,500 Kc/s	1,500 Kc/s	H.F. Aer. (Adj. (C6)						
Repeat a	djustments 2, 3 and 4.									

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

SOCKET VOLTAGES

VALVES	CATHODE TO CHASSIS VOLTS	SCREEN GRID TO CHASSIS VOLTS	ANODE TO CHASSIS VOLTS	ANODE CURRENT mA	HEATER VOLTS
6BE6 Converter	0	80	160	2.5	6.3
6N8 I.F. Amp., Det., AGC	0	80	200	6.0	6.3
6AU6 Audio Amp.	0	45	60	0.5	6.3
6AU6 Audio Amp.	0	45	06	0.5	6.3
6AQ5 Audio Output	0	200	245	24	6.3
6AQ5 Audio Output	0	200	245	24	6.3
6AV6 Mic. Amp.	0	_	65	0.5	6.3
6 x 4 Rectifier	270	_	255RMS	_	6.3

Back bias across R33 = -12V

Back bias across R33 + R32 = - 1V

Total H.T. Current = 70mA

Measured with 240 volts A.C. supply (with selector switch in Radio position). No signal input. Volume Control maximum clockwise. Voltmeter 20,000 ohms per volt. Measurements taken on highest scale giving accurate readable deflection.

D.C. RESISTANCE OF WINDINGS

WINDING	RESISTANCE IN OHMS	WINDING	RESISTANCE IN OHMS
I.F. Filter L1	23	Output Transformers TR5 and	d TR6
Aerial Transformer TR1		Primary	400
Primary	13.5	Secondary Power Transformer TR7	2
Secondary	1.9	Primary	40
Oscillator Transformer TR2	3.7	H.T. Secondary	250
I.F. Transformer Windings TR3 and TR	4 18	L.T. Secondary	*

^{*} Less than I ohm.

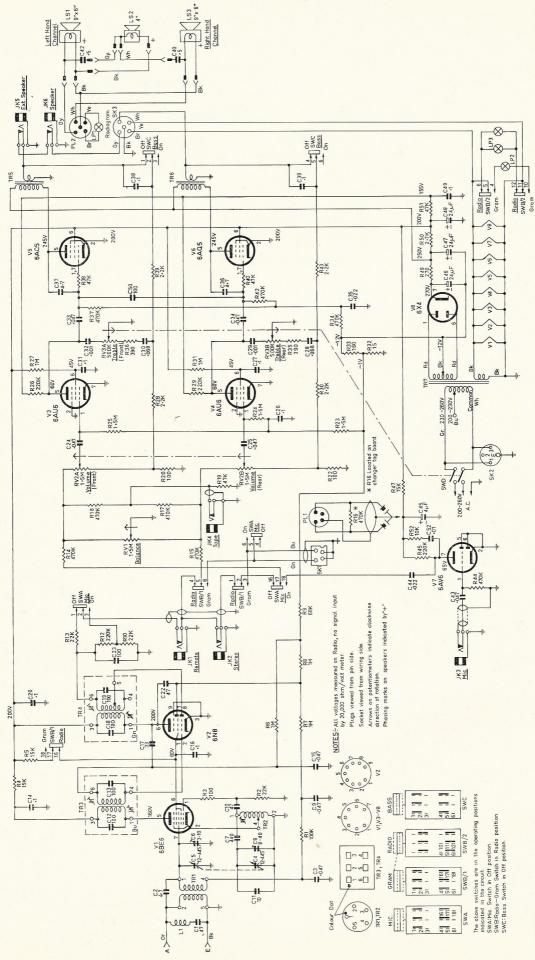
The above readings were taken on a standard chassis, but substitution of materials during manufacture may cause variations, and it should not be assumed that a component is faulty if a slightly different reading is obtained.

OPERATION SUMMARY CHART

Functions	Power			Power Switch		Speakers			Contro	ntrols Used		Jacks Used		Bezel	Lights		Dial Lig	hts	Remarks
	SWITCH	TV		ogram	TV	R	adiogram								1	Ī			
			L.H. Channel	R.H. Channel		Rotary	Push Button			TV	Radiogram	Left	Right	TV	Radio	Gram			
Watch TV	TV on	TV speaker		_	All	-	_			_	-		On	On	_	-			
Watch TV, sound from TV and extension speaker	TV on	TV speaker Ext. speaker		_	Alf	-	-			Ext. speake into Jack 2		-	On	On	_	_	Plugs supplied for terminating cable from extension.		
Watch TV, sound from extension speaker only	TV on	Ext, speaker			All	_	_		1	Ext. speaker into Jack 1	r —	_	On	On	_	_			
Listen to radio	Radiogram on		On	On	Poses	AII	Radio Bass*				_	0n	-	_	On	_	* Bass button normally never used on radio.		
Listen to stereo radio broadcast†	Radiogram on	_	Ext. radio in L.H. channel	Radiogram ın R.H. channel		All‡	Radio Bass*		J,	-	Ext. radio into "Stereo"	0n		-	On	-	† Use 16 feet interconnecting screen cable supplied (this h a built-in 33 ohms resistor in parallel with plug. ‡ Balance control used to adjust channel levels.		
Use a portable as a remote radio†	Radiogram on	_	On	On	-	AII‡	Radio Bass*			_	Ext. radio into "Remote"	On	-	_	On				
Use a microphone with radio	Radiogram on	_	Microphone in L.H. channel	Radio in R.H. channel		All‡	Radio, Mic, Bass*			The state of the s	Microphone into "Mic"	On	-	_	On	_	Sound level from radio is reduced 20db when Mic butt is depressed to facilitate "balancing."		
Play records, mono or stereo	Radiogram on	_	On	On		Balance‡ Treble Volume	Gram Bass if req'd			_		On	-	-	_	On			
Use a microphone with gram	Radiogram on	-	Microphone in L.H. channel	Gram in R.H. channel	-	Balance‡ Treble Volume	Gram, Mic Bass			_	Microphone into "Mic"	On	-	_	_	Ón			
Listen to radio or gram with an extension speaker	Radiogram on		Radio or gram into Ext. speaker	Radio or gram in R.H. channel		AII‡	Radio or Gram Bass if req'd			-	Extension speaker into "Ext. Spkr."	Óu	_	-	On for Radio	On for Gram			
Use radiogram L.H. speakers as extension speaker	Radiogram off	_	On	-	_	_	-			_	External source into "Speaker"	_	-	-	-	-			
Use TV speaker as extension speaker	TV off	TV speaker	_	_			_			External source into Jack 2			-	-	_	-			
Tape record TV sound∜	TV on	TV speaker		_	All	_				Gram or radio connection on Recorder into Jack 2		_	On	On		-	¶ 4 feet cable supplied with connector for Robuk Tap Recorders.		
ape record from radio or gram¶	Radiogram on	_	* *	* *	-	* *	Radio or Gram			-	Mic con- nection on Recorder into "Tape"	On	-	_	On for Radio	On for Gram	**Controls and speakers may be used for monitoring, bu have no effect on recording.		
ape record from gram vith microphone¶	Radiogram on	_	Microphone in L.H. channel	* * Radio or gram in R.H. channel		* * Balance‡	Radio or Gram Mic			_	Mic con- nection on Recorder into "Tape" Microphone into "Mic"	On	-	-	On for Radio				
ape record play back¶	Radiogram on		On	On	_	Volume Treble Balance	Radio Bass if req'd			_	Ext. Ampl. connection on Recorder into "Remote"	On	-		On	-	If tape recorder has no ext. ampl. outlet an extension speaker outlet may be used (high level).		
ith microphone∏	Radiogram on		Microphone in L.H. channel	Recorder in R.H.		All‡	Radio, Mic Bass if req'd				Recorder as above Microphone into "Mic"	On	-			-			
atch TV, sound through I speakers	Radiogram on	On	On	On	All	Volume Treble Balance‡	Radio Bass if req'd				Retractable cable into "Remote"	On	On				Before connecting cable set TV volume less than required, insert cable and adjust radiogram controls as desired. Slide door over radiogram and use TV controls only.		

6

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CIRCUIT CODE.

Code	No.	DESCRIPTION	Part No	Code No.	DESCRIPTION	Part No.
		RESISTORS			CAPACITORS (Cont.)	
R1 R2 R3 R4 R5 R6 R7 R8 R8 R8 R8 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	100K ohms 22K ohms 100 ohms 15K ohms 15K ohms 1 Megohm 1 Megohm 1 Megohm 22K ohms 22K ohms 22K ohms 22K ohms 470K ohms 470K ohms 470K ohms 470K ohms 470K ohms 470K ohms 100 ohms 1.5 Megohms 1.5 Megohms 1.5 Megohms 1.5 Megohms 1.5 Megohms 1.4 ohms 1.5 Megohms 1.5 Megohms 1.5 Megohms 1.5 Megohms 1.6 ohms 1 Megohm 1 Megohm 1 Megohm 1 Megohm 1 Megohm 15 ohms 1 Megohm 15 ohms 1 Megohm 15 ohms 160 ohms	### ##################################	616017 613653 W. 602061 612928 612928 618016 618016 615494 613653 617356 6174961 W. 602061 618260 618260 618260 618260 618260 618260 618726 609442 618021	C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C32 C34 C35 C36 C37 C32 C34 C35 C36 C37 C32 C34 C35 C36 C37 C36 C37 C36 C37 C36 C37 C37 C38 C39 C39 C39 C39 C39 C39 C39 C39 C39 C39	0.1μf ±20% 400VW paper 33pf ±5% N750 tubular 100pf ±5% 600VW polystyrene (in TR4) 100pf ±5% 600VW polystyrene (in TR4) 0.1μf ±20% 400VW paper Not used 47pf ±5% N750 tubular 100pf ±10% N750 tubular 0.047μf ±10% 125VW polyester 0.047μf ±10% 125VW polyester 0.1μf ±10% 125VW polyester 0.1μf ±10% 400VW polyester 0.068μf ±10% 125VW polyester 0.001μf ±10% 600VW paper 0.068μf ±10% 125VW polyester 0.001μf ±10% 400VW polyester 0.001μf ±10% 400VW polyester 0.001μf ±10% 600VW paper 0.047μf ±10% 400VW polyester 0.047μf ±10% 400VW polyester 0.047μf ±10% 125VW polyester 0.022μf ±10% 125VW polyester 0.7pf ±5% NPO tubular 4.7pf ±5% NPO tubular 0.1μf ±20% 200VW paper 0.5μf ±20% 200VW paper 0.5μf ±20% 200VW AEE W48 0.047μf ±10% 400VW polyester 0.022μf ±10% 400VW polyester 0.24μf 300VW Electrolytic 24μf 300VW Electrolytic 24μf 300VW Electrolytic 24μf 300VW Electrolytic 24μf 300VW Electrolytic 0.1μf ±20% 400VW paper 100pf ±10% N750 tubular Not Used	227017 221532 222222 227017 220554 222224 226804 227085 225013 226963 227085 225013 226802 226802 226802 227022 227022 227022 227022 227022 227022 22812 222812 222812 222812 22224
235 236 237 238 240 240 241 242 243 244 245 246	390 ohms 390 ohms 470K ohms 47K ohms 47K ohms 47K ohms Not Used 470K ohms 2.2K ohms 470K ohms 2.2K ohms 470K ohms 15K ohms	### ##################################	606254 606254 617356 614961 609442 614961 617356 609442 617356 616726	TR1 TR2 TR3 TR4 TR5 TR6 TR7 L1	TRANSFORMERS Aerial Transformer Oscillator Transformer 1st I.F. Transformer 2nd I.F. Transformer Audio Output Transformer Audio Output Transformer Power Transformer I.F. Filter (incl. C1)	52754 64327 51052 51054 50545H 50545H 52442A 50604
248 249 250 251 252 2V1 2V2A 2V2B 2V3A 2V3B	1.5 Megohms	±10% 2 watts ±10% 1 watt ±10% ½ watt Curve A Carbon, Balance Curve C Carbon Volume Curve C Carbon Troble W/S	.W. 605650 609871 614969 612025 620796 620963	V1 V2 V3 V4 V5 V6 V7 V8	VALVES Radiotron 6BE6 Radiotron 6N8 Radiotron 6AU6 Radiotron 6AU6 Radiotron 6AQ5 Radiotron 6AQ5 Radiotron 6AQ5 Radiotron 6AV6 Radiotron 6AV6 Radiotron 6AV6	
		CAPACITORS			MISCELLANEOUS	
11 22 33 44 55 66 77 88 99 110 111 112 113 114	$4.7 \text{pf} \pm 10\% \text{ I}$ $0.047 \mu \text{f} \pm 10\% \text{ I}$ $12 - 445 \text{pf} \text{ tu}$ $12 - 445 \text{pf}$ $3 - 10 \text{pf} \text{ trimm}$ $440 \text{pf} \pm 2\frac{1}{2}\%$ $8 - 40 \text{pf} \text{ trimm}$ $0.047 \mu \text{f} \pm 10\% \text{ 5}$ $10 \text{pf} \pm 5\% \text{ 6}$ $100 \text{pf} \pm 5\% \text{ 6}$ $0.1 \mu \text{f} \pm 20\% \text{ 4}$	5 125VW polyester ing Oscillator ning Aerial padder er Oscillator 6 125VW polyester 00VW silver mica 3300 disc 00VW polystyrene (in TR3		SWA SWB SWC SWD SK1 SK2 PL1 JK1-JK6 LP1 LP2 LP3 LP4 LS1 LS2 LS3	Microphone On-Off Switch Radiogram Switch Bass On-Off Switch Power On-Off (on RV3) Pu Input Socket Phono Motor Power Socket Pu Input Plug Jack Radiogram Bezel Light 12V Record Compartment Light 6.3V Dial Scale Light 6.3V Dial Scale Light 6.3V 9" x 6" Speaker 4" Speaker 9" x 6" Speaker	40180 28313 49739 417405 428147 428105 428105 428105 50232 50233 50232

MECHANICAL REPLACEMENT PARTS

RADIOGRAM

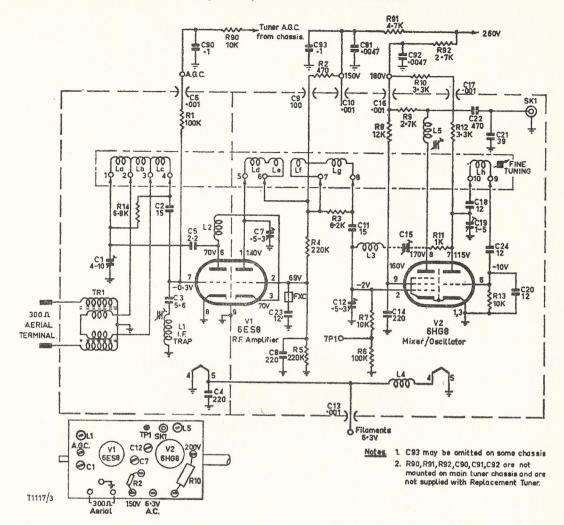
ltem	Part No.	l tem	Part No.
Clamp Body, Moulded (power cable)	208056	Screw, 4BA x 3" Ch./Hd. (3 off)	714012
Clamp Cable, Tapped	33353	Spacer (3 off)	60677
Clamp Lock, Moulded (power cable)	208057	Washer, Plain (3 off)	13156
"C" Clip, Large	2537	Washer, 4BA I.T.L. (3 off)	921204
"C" Clip, Small (2 off)	4885	Lampholder Assembly (3 off)	4195
Cover, Insulator, Power Switch	38469	Lampholder Assembly, Record Changer	32805
Dial Backing	64815	Pointer Assembly	64837
Drive Cord	9576/20	Pulley (3 off)	17716
Drive Drum Assembly	62221	Screw, Coil Mounting (2 off)	34147
Drive Spindle Assembly	64836	Socket, 7-pin Valve (7 off)	794579
Gang Mounting		Socket, 9-pin Valve	794640
Grommet (3 off)	389262	Spring Tension, Drive Cord	1741

MECHANICAL REPLACEMENT PARTS

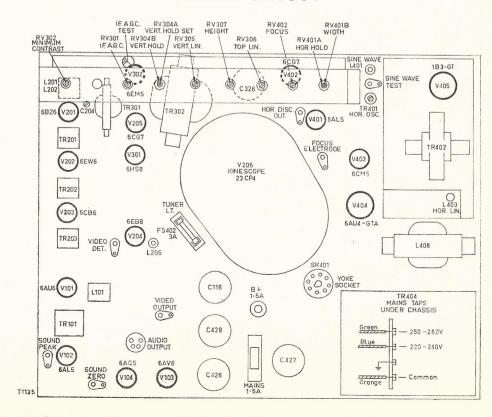
CABINET

Item	Part No.	ltem	Part No.
Badge Assembly	119059	Kine Mounting Assembly	43700
Bezel, Light, Clear	64996	Earthing Spring Assembly	44226
Bezel, Light, Red	41530	Kine Mount, R.H. (Bottom)	43708
Bracket, Chassis Support	44546	Kine Mount, L.H. (Bottom)	43709
Bracket, Chassis Swivel	44545	Kine Mount, Top (2 off)	43710
Bracket Lamp (2 off)	4640	Kine Strap Assembly (Bottom)	43701
Bracket Lamp, Record Changer	44766	Kine Strap Assembly (Top)	43704
Bracket, Tuner, Rear Mounting	44577	Knob Assembly, Channel Selector	44542
Bush, Pivot	42626	Knob Assembly, Control, Radiogram (4 off)	64991
Cabinet	60259	Knob Assembly, Control, TV (4 off)	44538
Cabinet Back Assembly	44876	Knob Assembly, Fine Tuning	44543
Ceramic Cartridge, Stereo, Sonotone	AT8	Mask Assembly, Kinescope	44677
Changer, Record, Garrard Autoslim	64580	Pouch, Microphone	64993
Clip, Connecting, Speaker	439091	Replacement Styli Assembly	
Control Panel Assembly (Radiogram)	64820		
Name Plate, Controls	44548	Long Play Stereo, Diamond (78 R.P.M., Sapphire	N8TA D/S
Escutcheon Assembly (TV)	44547		
Escutcheon, Painted	44549	Shield, Light (2 off)	42924
Escutcheon, Jack Mounting (TV)	44759	Spring, Earthing	40527
Handle, Knob (3 off)	44771	Strap, Earthing, Short	40710
Control Panel, Painted	64817	Strap, Earthing, Long (2 off)	43729
Dial Scale, Printed	37993	Trim Assembly, Horizontal	44884
		Trim, Door Handle, Insert	44773

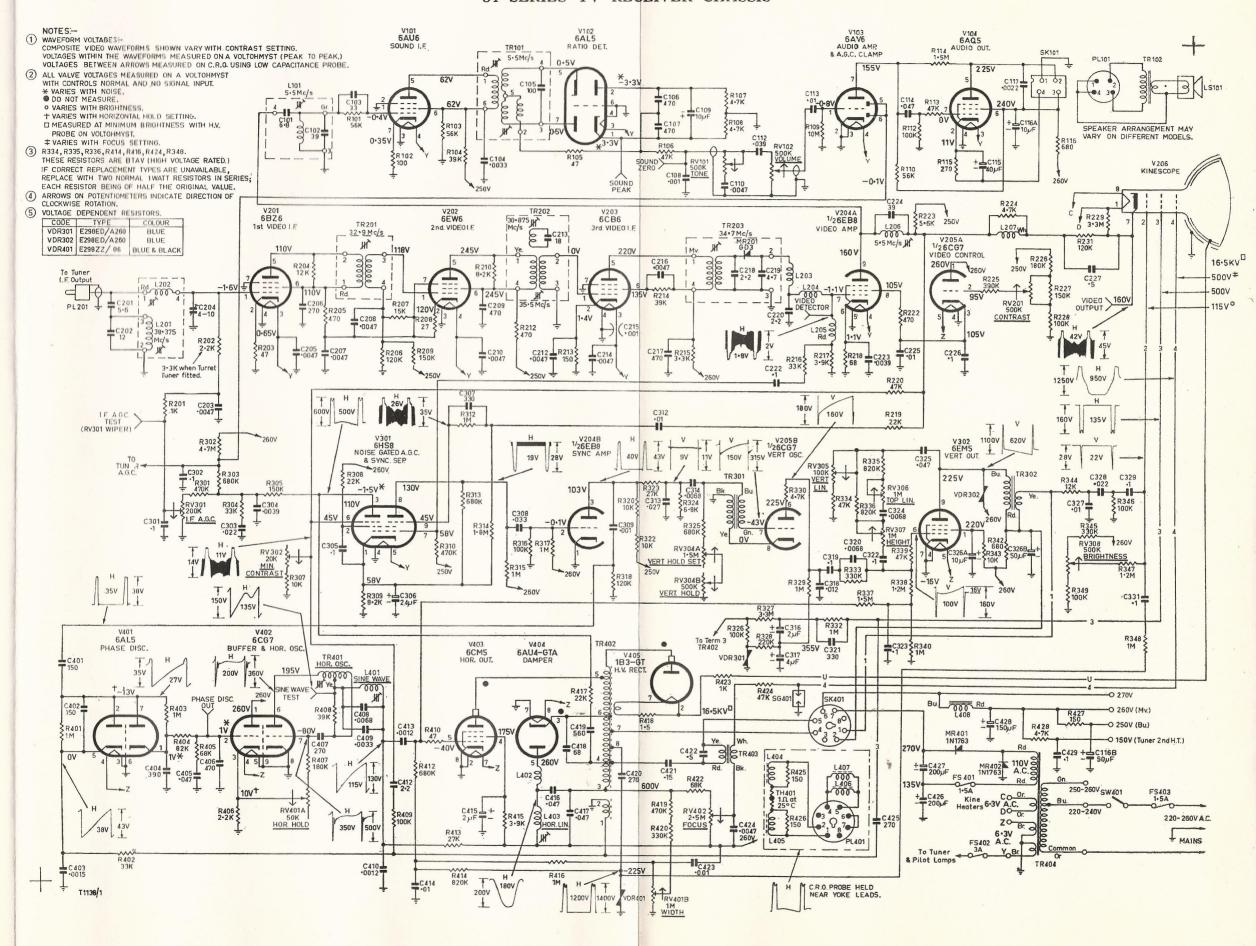
TAI (44000) TURRET TUNER



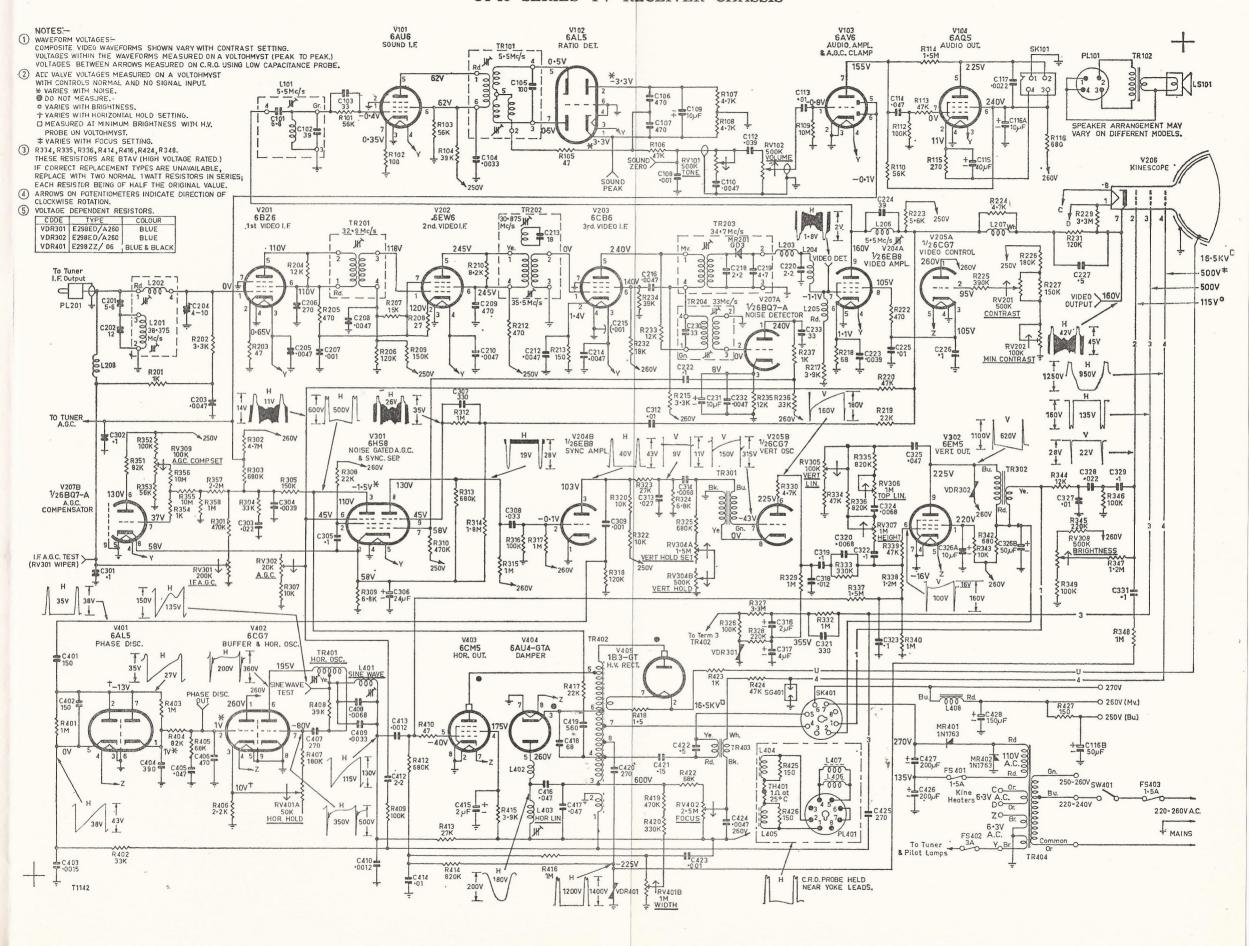
CHASSIS LAYOUT



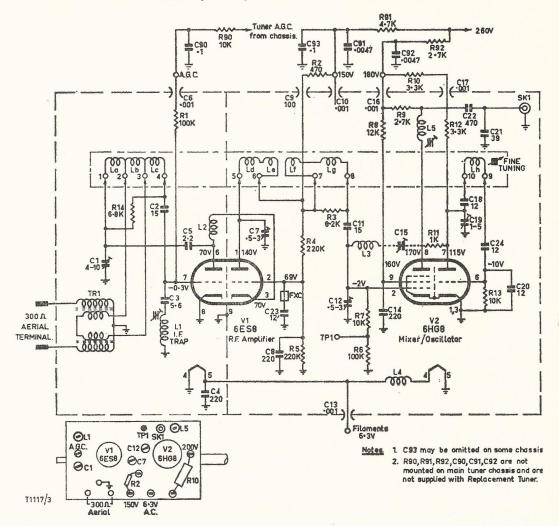
34 SERIES TV RECEIVER CHASSIS



34-40 SERIES TV RECEIVER CHASSIS



TAI (44000) TURRET TUNER



CHASSIS LAYOUT

