



RCA VICTOR

High-Fidelity Combination

MODEL SHF-3

Tuner/Amp. Chassis No. RC-1168B Record Changer RP-205C-3

SERVICE DATA

- 1957 No. 13 -

PREPARED BY COMMERCIAL SERVICE RCA SERVICE CO., INC. CAMDEN 8, N. J.

FOR

RADIO CORPORATION OF AMERICA

RCA VICTOR RADIO AND "VICTROLA" DIVISION



Model SHF-3

The "Mark III"

SPECIFICATIONS

TUNING RANGE Standard Broadcast (AM)	TUNING DRIVE RATIO7½:1 (3¾ turns of knob)
Frequency Modulation (FM)	RECORD CHANGER (RP-205C-3)
INTERMEDIATE FREQUENCIES AM455 kc. FM10.7 mc.	Turntable speed
TUBE COMPLEMENT	ten 12 inch or
(1) RCA 6CB6	ten 10 inch and 12 inch intermixed
(2) RCA 6X8 Mixer & Oscillator	Pickup Stock No. 103422
(3) RCA 6BA6	Stylus Stock No. 100420
(5) RCA 6AU6	AUDIO POWER OUTPUT
(6) RCA 6AL5	12 wattsWith less than 2% distortion at 1000 cycles
(7) RCA 6AV6	15 watts
(8) RCA 6AL7-GT	FREQUENCY RESPONSE 45 cycles to 20,000 cycles
(10) RCA 6CG7 Two-Stage A.F. Ampl.	I OILD OUT A MED O
(11) RCA 6CG7 A.F. Amp. & Phase Splitter	LOUDSPEAKERS
(12) RCA 6V6GT Output (13) RCA 6V6GT Output	Two 12" PM "woofers" 8 ohms @ 400 cycles Two 3½" PM "tweeters"
POWER SUPPLY RATING	CABINET DIMENSIONS
115 volts, 60 cycles, 135 watts (includes record changer)	Height, 341/6"
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DESCRIPTION

The "MARK III" is a high-fidelity combination instrument consisting of a tuner/amplifier, record changer and four speakers all in one cabinet.

The tuner/amplifier incorporates a tuned r.f. stage, mixer/oscillator, one stage of AM i.f. amplification and three stages of FM i.f. amplification. Audio amplification consists of three AF amplifier stages, phase splitter and push-pull output on all four functions. Inverse feed-back, applied to the third AF amplifier, is derived from a tapped resistive output load. The triode section of V7 (6AV6) provides amplified output to a tape recorder. This stage of amplification employs inverse feedback (R22 is used for both plate load and for feedback). The circuit is designed to enable tape recordings to be made from either radio programs or records. The program being recorded can be monitored on the speakers. A type 6AL7-GT tuning eye is used for accurate tuning on both AM and FM.

Two 12-inch wide-range speakers and two $3\frac{1}{2}$ -inch speakers are used for wide acoustic range and panoramic sound distribution.

The four-speed record changer, mounted in a roll-out drawer, utilizes a ceramic dual-stylus pickup.

Provision is made for use of this instrument as a companion amplifier/speaker unit in conjunction with tape recorder/sterotape player Model STR-2. When used for this purpose, the "MARK III" provides "right channel" amplification and speaker output equal to that of the "left channel" of Model STR-2. A two-pushbutton switch located above the tuning dial is used to select either radio, phono tape recording, standard tape playback operations ("MARK") or tape playback from Model STR-2 ("STEREO").

SUPPLEMENTARY INFORMATION

Issue	Subject
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	olements and Service Tips above.

ALIGNMENT PROCEDURE

Alignment Sequence

Due to the use of separate I.F. transformers, there is little interaction between the 10.7 mc. and the 455 kc. adjustments. There is a slight interaction of adjustments on the tuning

condenser between AM and FM.

If a large amount of adjustment is required of any circuit, all others should be checked in the following order:

FM I.F.

AM I.F.

AM Osc., ant. and r.f. FM Osc., ant and r.f.

Final adjustment of AM ant. trimmer should be made with chassis and antenna in cabinet.

Alignment Indicators

For measuring the developed d-c voltage across R40 or R41 during FM alignment an RCA VoltOhmyst $^{\circledR}$ or an equivalent meter should be used.

The RCA VoltOhmyst can also be used to indicate audio output voltage across the voice coil or developed voltage on the AVC bus.

Signal Generator

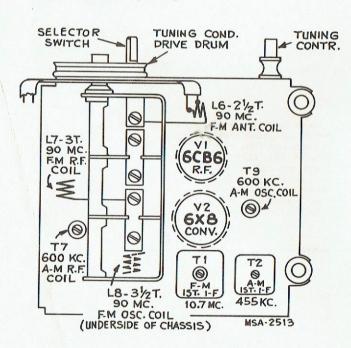
For alignment operations connect the low side of the signal generator to the receiver chassis. The output of the signal generator should always be controlled to prevent over-loading or excessive AVC action.

Oscilloscope Alignment

It is preferable to use a sweep generator and oscilloscope for aligning I.F. and R.F. circuits to obtain a visual observation of curve shape during alignment.

With FM sweep generator connected between FM ant. (#3) terminal and chassis, and oscilloscope connected between the junction of R37-C31 and chassis, the overall FM linearity may be observed. There should be a peak-to-peak separation of 250 kc. with 50,000 microvolts input.

For FM alignment of the ratio detector, connect oscilloscope to junction of R37-C31 as in alignment table, adjusting T6 top and bottom cores for 10.7 mc. crossover and balanced peaks. When aligning other FM tuned circuits, connect oscilloscope to pin #1 of V5 (3rd FM IF) and disconnect C26. Follow alignment table sequence, adjusting for maximum gain and symmetry.



FM Coil Locations

FM Alignment

RANGE SWITCH IN FM POSITION
VOLUME CONTROL MAXIMUM—TONE CONTROL CENTER

Steps	Connect high side of sig. gen. to—	Sig. gen. output Turn radio dial to—		Adjust for peak output
1	Pin 1 of V5 6AU6 in series with .01 mfd.*	10.7 mc.	Quiet point at low freq. end	
2	Connect VoltC resistor. Adjus 6 volts o		utput to give	T6 top core for max. d-c voltage across R40 or R41
3	Connect Volt	Ohmyst from n of R37 and	T6 bottom core for 0 volts d-c	
4	Con	nect VoltOh	myst to pin #1	of V5
5	Pin 1 of V3- 6BA6 in series with .01 mfd.*	10.7 mg.	Quiet point	††T5 top core. T3 top & bottom cores.
6	Stator of C1D in series with .01 mfd.*	10.7 mc.	at low freq. end	††Tl top and bottom cores
7	FM Ant.	90 mc.	90 mc.	Remove bottom shield. **Osc. coil L8
8	terminals thru 120 ohms in each side of line	106 mc.	106 mc. signal	Replace bottom shield. CIA-T ant., CID-T r.f.
9		90 mc.	90 mc.	**L6 ant. L7 r.f.
10	Repeat steps	7, 8 and 9 un improve	ntil further adju e calibration	stment does not

* Use ceramic disc capacitor with short leads.

†† Alternate loading may be necessary to provide accurate observation of peaks.

Alternate loading involves the use of a 270 ohm resistor to load the plate winding while the grid winding of the SAME TRANSFORMER is being peaked. Then the grid winding is loaded with the resistor while the plate winding is peaked. Only one winding is loaded at any one time. Remove the 270 ohm resistor after T3 and T1 have been aligned.

It is possible to run the IF transformer cores all the way through the coil winding and obtain a second peak. This will cause serious overcoupling and should be avoided by using a marked adjusting stick. The correct peak is always the first peak obtained when the core is started in from the "backed all the way out" position.

Incorrect peaking can seriously affect gain and bandwidth.

**Note: FM antenna, mixer and oscillator coils are adjustable by increasing or decreasing the spacing between turns. The location of the tap on the antenna coil is % turn to % turn from the ground end.

Oscillator frequency is above signal frequency on both AM and FM.

ALIGNMENT PROCEDURE - LEAD DRESS

AM Alignment

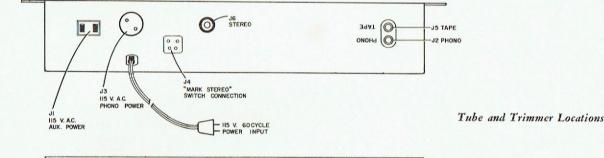
RANGE SWITCH IN AM POSITION

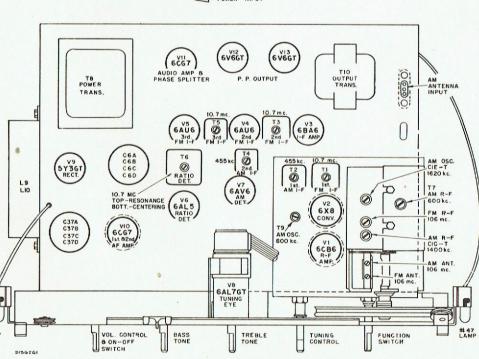
Steps	Connect high side of sig. gen. to—	Sig. gen. output (400 cy. modulation)		Adjust for peak output			
1	Pin 1 of V3 6BA6 in series with .01 mfd.	455 kg.	Quiet point	T4 bottom core (pri.) T4 top core (sec.)			
2	T7 term. 4 in series with .01 mfd.	455 KC.	at low freq. end	T2 top core (sec.) T2 bottom core (pri.)			
3		1620 kc.	High freq. end of dial (min. cap.)	C1E-T			
4		1400 kc.	1400 kc. signal	ClB-T ant. ClC-T r.f.			
5	AM terminal on ant. input	Shunt a 10, r.f. sec	,000 ohm resiste	or across the he gang.			
6	strip	600 kc.	600 kc. signal	T9 osc. (Rock gang.)			
7		Remove the 10,000 ohm resistor and peak T7 r.f. at 600 kc.					
8		Repeat 3, 4, 5, 6 and 7					

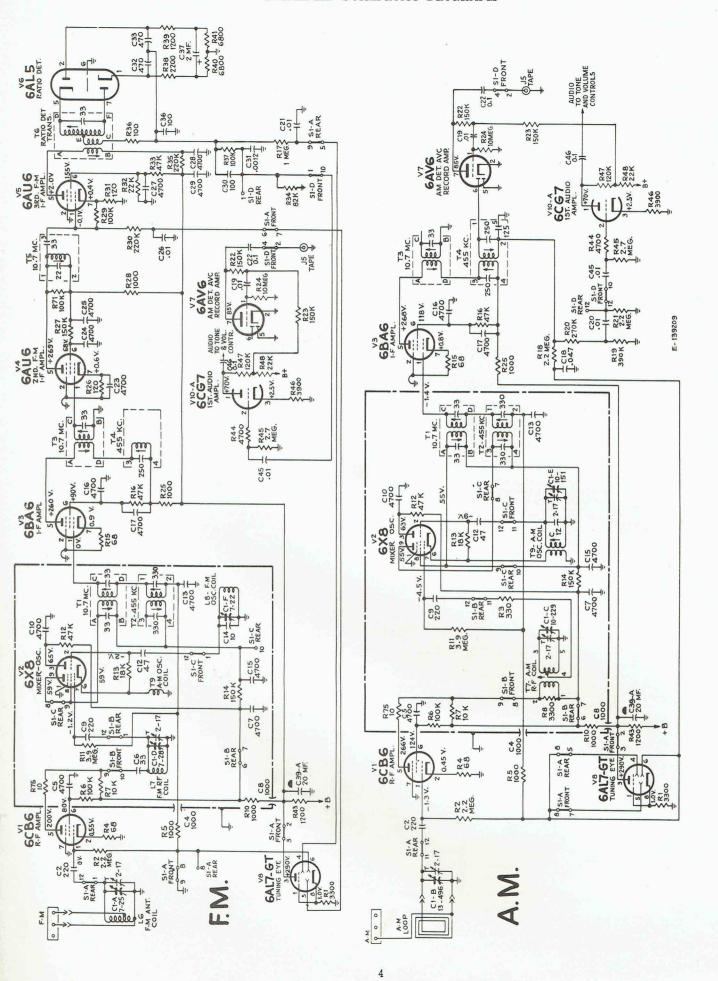
The RF transformer (T7) and the oscillator coil (T9) cores should be adjusted on the peak obtained with the core coming out the lug end of the coil. When adjusting from the top of the chassis, this is the peak with the core farthest into the coil.

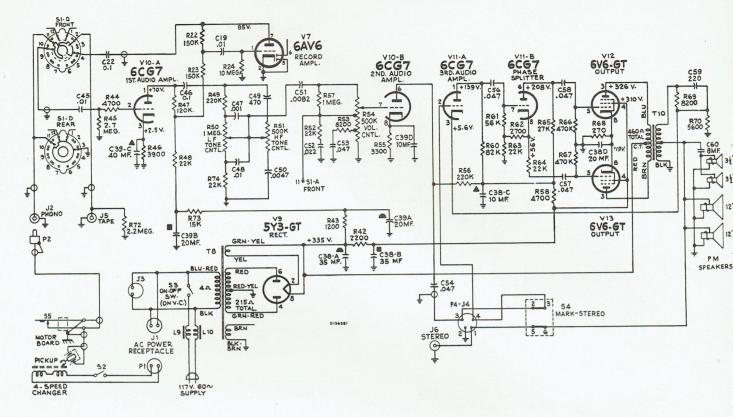
Critical Lead Dress

- 1. Dress R33, R42, R43 and R61 up in the air away from all other components.
- 2. Dress R44 and R45 down against chassis.
- Keep leads of C30, C31 and C36 short and dress these components down against chassis.
- 4. Keep all I.F. bypass leads short.
- 5. Keep power line chokes up away from chassis.
- 6. Dress power line leads away from top tap of volume control.
- 7. Do not re-locate ground straps from chassis to R.F. shelf.
- 8. Lead from terminal "B" of 1st FM I.F. transformer to switch should be 3 inches $\pm \frac{1}{4}$ ".
- 9. Dress all components and wiring away from V1 grid circuit. Keep grid end lead of R2 short.
- 10. Dress pilot lamp lead away from phono input.
- ll. Replace all shields securely if it has been necessary to remove them.
- 12. Dress audio capacitors down against chassis where possible.
- Dress power cord away from end bell of the power transformer.

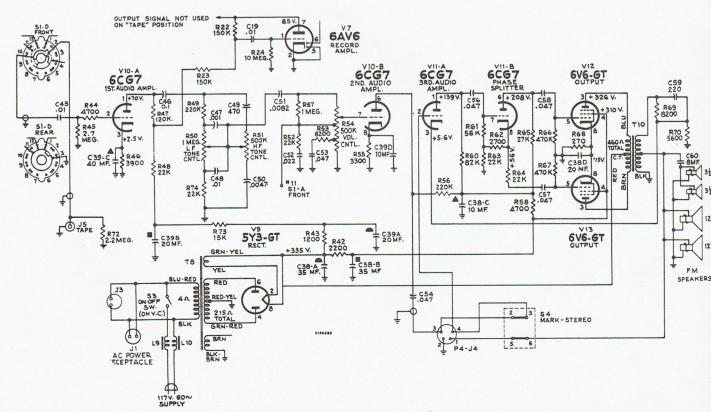








Simplified Schematic Diagram — "Phono" Function



Simplified Schematic Diagram — "Tape" Function

TO PLAY BACK

TAPE FROM STANDARD

TAPE RECORDER

TO PLAY BACK TAPE (SINGLE TRACK OR STEREO) FROM

MODEL STR-2

			MARK STEREC		
RADIO	ON-OFF LOUDNESS	BASS	TREBLE	TUNING	AM FM PH. TAPE
CONTROLS	Pull out for "ON" Push in for "OFF"			M9A 25	
TO PLAY RECORDS	Set at desired level		lesired tone K" pushbutton		PH
TO RECORD FROM PHONOGRAPH	No effect on recording t		on recording K'' pushbutton		,,
TO RECEIVE RADIO PROGRAMS	Set at desired level		lesired tone K" pushbutton	Tune to desired station	AM or FM
TO RECORD RADIO PROGRAMS	No effect on recording T		on recording K" pushbutton	" "	" "
TO RECORD FROM MICROPHONE	и и		и и		TAPE

See Text Below

MAADY

STEDEO

† Recording level is controlled only by tape recorder. LOUDNESS control on Model SHF-3 controls only monitoring loudness level.

Set at desired

level

No effect

The "TAPE" connection on Model SHF-3 is designed for use with tape recorders such as Models and One connecting cable serves both for tape recording and tape playback when connected to the "RADIO-PHONO" jack of these tape recorders. The "MARK" pushbutton must be depressed.

The "STEREO" connection on Model SHF-3 is designed

for use with a stereophonic tape player such as Model STR-2. This tape player has two interconnecting cables, the "TAPE" cable connects to the "TAPE" jack of Model SHF-3 and the "STEREO" cable connects to the "STEREO" jack of Model SHF-3. With this combination of instruments, standard tape recording is accomplished through the "TAPE" cable and with the "MARK" pushbutton depressed. Tape playback (either single track or stereophonic) is accomplished through the "STEREO" cable and with the "STEREO" pushbutton depressed.

Any position

RECORD CHANGER CONTROLS

The record changer has a dual control on the motorboard and a stylus selector control on the pickup arm. The metal lever of the dual control is the OFF-ON-REJECT control. Turning this lever to the center position energizes the motor and starts the turntable, when turned to the clockwise position it starts the mechanism into complete automatic operation. The mechanism will shut off automatically after the last record has been played but can be shut off manually by turning this lever counter-clockwise.

The circular knob of the dual control is the speed control. It has four positions: "16%", "33", "45", "78", to select the turntable speed desired.

The stylus control has two positions; to change position, push the end of the control lever down and under.

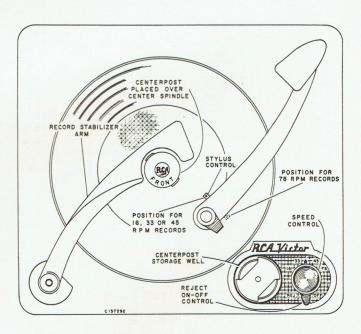
The removable centerpost is for use with $16\frac{2}{3}$ or 45 r.p.m. records having the large centerhole. It must be placed over the center spindle with the word "FRONT" FACING to the FRONT. Care should be exercised in inserting and removing the centerpost so as to prevent damage to smaller

A well is provided on the record changer for storage of the centerpost when not in use. Projections on the sides of the well enable the centerpost to be secured by pressing down on the centerpost until a slight click is heard. It may be necessary to twist slightly while pressing down.

To load or remove records, lift and turn the record stabilizer arm off to the side. After loading, the stabilizer arm should be turned to the center so it rests on the stack of records.

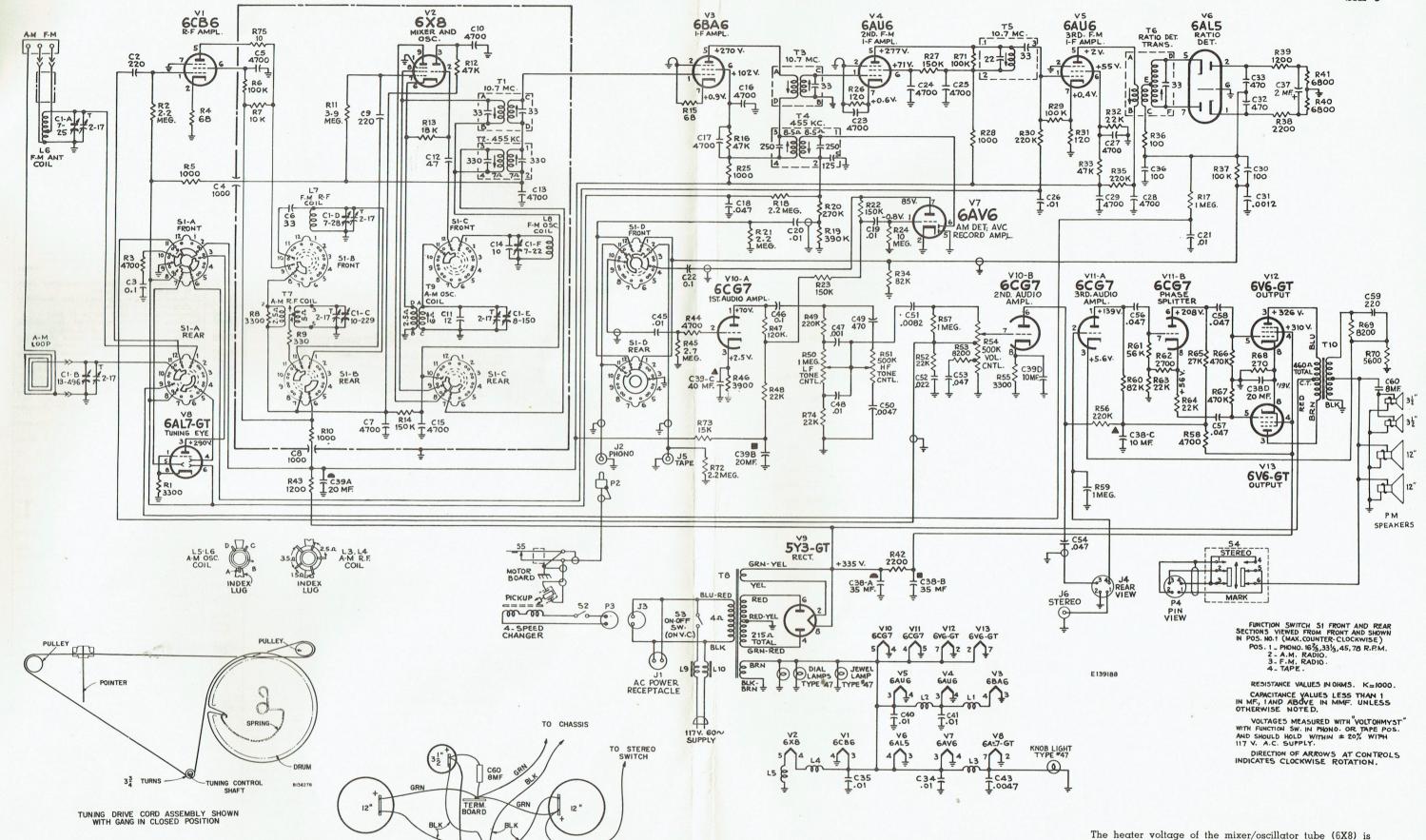
STYLUS REPLACEMENT

The dual stylus is held in position by a spring clamp. To remove, simply hold pickup sideways and pull spring clamp away from stylus and allow stylus to drop out. When inserting stylus, be certain that the small diameter rod holding the styli rests in the notch of the drive arm connecting to the cartridge element.



Record Changer Controls

FOR SERVICE INFORMATION — REFER TO "RP-205 SERIES SERVICE DATA" AND TO "RP-205 SERIES SERVICE DATA SUPPLEMENT"



Speaker Wiring Assembly

MSA 2578

Dial Cord and Drive Assembly

7

8

approx. 0.4 volt lower than other tubes. This is due to the

Complete Schematic Diagram — Tuner/Amplifier Chassis & Record Changer

filament choke coils L4 and L5.

REPLACEMENT PARTS

SYMBOL NO.	STOCK NO.	DESCRIPTION	SYMBOL NO.	STOCK NO.	DESCRIPTION
		CHASSIS ASSEMBLY	R6	502410	Resistor—Fixed, composition, 100,000 ohm, ±20%, ½ w.
		RC-1168B	R7	502310	Resistor — Fixed, composition, 10,000 ohm, ±20%, ½ w.
ClA to ClF Incl.	103364	Capacitor—Variable tuning capacitor	R8	502233	Resistor — Fixed, Composition, 3300 ohm,
C2	71920 78922	Capacitor — Fixed, ceramic, 220 mmf., ±10%, 500 v., Coef.—750 Capacitor—Fixed, paper, 0.1 mf., ±10%,	R9	502133	Resistor — Fixed, composition, 330 ohm ±10%, ½ w.
C3	77084	400 v. Capacitor — Feed-thru, 1000 mmf., +100	R10 R11	502210 502539	Same as R5 Resistor—Fixed, composition, 3.9 megohm,
C5	73473	_0% 500 v	R12	512347	±10%, ½ w. Resistor—Fixed, composition, 47,000 ohm,
C6	76739	Capacitor — Fixed, ceramic, 4700 mmf., +100 -0%, 500 v. Capacitor — Fixed, ceramic, 33 mmf.,	R13	502318	±20%, 1 w. Resistor—Fixed, composition, 18,000 ohm,
C7	73473	±10%, 500 v., Coet.—0 Same as C5	R14	502415	Resistor—Fixed, composition, 18,000 ohm, ±10%, ½ w. Resistor—Fixed, composition, 150,000 ohm, ±20%, ½ w.
C8 C9	77084 71920	Same as C4 Same as C2	R15 R16	502068 502347	Same as R4 Resistor—Fixed, composition, 47,000 ohm,
C10 C11	73473 76349	Same as C5 Capacitor — Fixed, ceramic, 12 mmf., ±10%, 500 v., Coef.—330	R17	502510	$\pm 20\%$, $\frac{1}{2}$ w. Resistor—Fixed, composition, 1 megohm, $\pm 10\%$, $\frac{1}{2}$ w.
C12	39042	±10%, 500 v., Coef.—750 ±10%, 500 v., Coef.—750	R18	502522	Same as R2
C13 C14	73473 33098	Same as C5 Capacitor — Fixed, ceramic, 10 mmf.,	R19 R20	502439 502427	Resistor—Fixed, composition, 390,000 ohm, ±10%, ½ w.
C15	39668	±5%, 500 v., Coef.—750 Capacitor—Fixed, mica, 4700 mmf., ±20%,	R21	502522	Resistor—Fixed, composition, 270,000 ohm, ±10%, ½ w. Same as R2
C16, C17	73473	500 v. Same as C5	R22, R23 R24	502415 502610	Same as R14 Resistor—Fixed, composition, 10 megohm,
C18	73558	Capacitor—Fixed, paper, 0.047 mf., ±10%,	R25	502210	±20%, ½ w.
C19, C20, C21 C22	73960 78922	Capacitor — Fixed, ceramic, 0.01 mf., +100% -0%, 500 v. Same as C3	R26	502112	Resistor — Fixed, composition, 120 ohm, ±10%, ½ w.
C22 C23, C24, C25 C26 C27, C28, C29	73473	Same as C5	R27 R28	502415 502210	Same as R14 Same as R5
C26 C27, C28,	73960 73473	Same as C19 Same as C5	R29 R30	502410 502422	Same as R6 Resistor—Fixed, composition, 220,000 ohm, ±10%, ½ w.
C29 C30	103166	Capacitor — Fixed, ceramic, 100 mmf.,	R31 R32	502112 502322	Same as R26
C31	103332	±20%, 500 v. Capacitor — Fixed, paper, 0.0012 mf.,	R33	512347	Resistor—Fixed, composition, 22,000 ohm, $\pm 10\%$, $\frac{1}{2}$ w. Same as R12
C32, C33	76992	±10%, 200 v. Capacitor—Fixed, mica, 470 mmf., ±10%, 300 v.	R34	502382	Resistor—Fixed, composition, 82,000 ohm, ±10%, ½ w.
C36 C37	103156 79181	Same as C30 Capacitor—Electrolytic, 2 mf., 50 v.	R35 R36	502422 502110	Same as R30 Resistor — Fixed, composition, 100 ohm, ±20%, ½ w.
C38A, C38B, C38C, C38D	101414	Capacitor — Electrolytic, 35/35/10/20 mf., 400/400/350/25 v.	R37 R38	502410 502222	Same as R6
C39A, C39B, C39C, C39D	101357	Capacitor — Electrolytic, 20/20/40/10 mf., 400/400/25/25 v.	R39	502212	Resistor — Fixed, composition, 2200 ohm, ±10%, ½ w. Resistor — Fixed, composition, 1200 ohm,
C40, C41, C42 C43	73960 73473	Same as C19 Same as C5	R40, R41	502268	Resistor — Fixed, composition, 1200 ohm, ±10%, ½ w. Resistor — Fixed, composition, 6800 ohm, ±10%, ½ w.
C44 C45	73960 73561	Same as C19 Capacitor—Fixed, paper, 0.01 mf., ±10%,	R42	502222	Same as R38
C46	78922	400 v. Same as C3	R43	522212	Resistor — Fixed, composition, 1200 ohm, ±10%, 2 w. Same as R3
C47	77533	Capacitor—Fixed, paper, 0.001 mf., ±10%, 200 v.	R45	72788	Resistor—Fixed, composition, 2.7 megohm, ±10%, ½ w.
C48 C49	101000 75198	Capacitor—Fixed, paper, 0.01 mf., 200 v. Capacitor — Fixed, ceramic, 470 mmf., ±10%, 500 v.	R46	502239	Resistor — Fixed, composition, 3900 ohm, ±10%, ½ w.
C50 C51	101721 104335	Capacitor—Fixed, paper, 0.0047 mf., 200 v. Capacitor—Fixed, paper, 0.0082 mf., 400 v.	R47	502412	Resistor—Fixed, composition, 120,000 ohm, $\pm 10\%$, $\frac{1}{2}$ w.
C52	79343	Capacitor—Fixed, paper, 0.022 mf., ±10%, 200 v.	R48 R49	502322 502422	Same as R32 Same as R30
C53 C54	73558 73553	Same as C18 Capacitor—Fixed, paper, 0.047 mf., ±10%,	R50 R51	103915	Control—Low frequency tone control Control—Righ frequency tone control
C56, C57,	73553	400 v. Same as C54	R52 R53	502322 502282	Same as R32 Resistor — Fixed, composition, 8200 ohm, ±10%, ½ w.
C58 C59	77460	Capacitor - Fixed, ceramic, 220 mmf.,	R54	104599	Control — Volume control with "On-Off" switch (S3)
C60 J1	100509 52131	±10%, 500 v. Part of Speaker Assembly Connector — 2-contact female A.C. power	R55 R56	502233 502422	Same as R8 Same as R30
J2	33514	receptacle Connector—Phono and tape recorder dual	R57 R58	502510 502247	Same as R17 Same as R3
13	75543	input female connector—includes J5 Connector — 2-contact female connector —	R59 R60 R61	502510 502382 502356	Same as R17 Same as R34 Resistor—Fixed, composition, 56,000 ohm,
J4	38853	phono power Connector — 4-contact female connector —	R61 R62	502227	±10%, ½ w.
J5	33514	stereo Same as J2 Connector Foundamento stereo	R63, R64	502322	Resistor — Fixed, composition, 2700 ohm, ±10%, ½ w. Same as R32
J6 L1, L2, L3	35787 71942 76351	Connector—Female connector—stereo Coil—Filament RF choke coil Coil—Filament RF choke coil	R65, R64	502327	Same as R32 Resistor—Fixed, composition, 27,000 ohm, ±10%, ½ w.
L1, L2, L3 L4, L5 L6 L7	103501 76353 77973	Coil—FM antenna coil Coil—FM RF coil	R66, R67	502447	+10%, ½ w.
L9, L10	103599	Coil—FM oscillator coil Reactor—Power line RF choke coil	R68	522127	Resistor — Fixed, composition, 270 ohm, ±10%, 2 w.
Rl	502233	Resistor — Fixed, composition, 3300 ohm, ±20%, ½ w. Resistor — Fixed, composition, 2.2 megohm, ±20%, ½ w.	R69 R70	502282 502256	Same as R53 Resistor — Fixed, composition, 5600 ohm, ±10%, ½ w.
R2	502522	Resistor—Fixed, composition, 2.2 megohm, ±20%, ½ w.	R71	502410	Same as Rb
R3	502247	Resistor — Fixed, composition, 4700 onm,	R72 R73	502522 502315	Same as R2 Resistor—Fixed, composition, 15,000 ohm, ±20%, ½2 w.
R4	502068	± 10%, 72 W. Resistor — Fixed, composition, 68 ohm, ±10%, 72 w. Resistor — Fixed, composition, 1000 ohm, ±20%, 72 w.	R74 R75	502322 502010	Same as R32
R5	502210	±20%, ½ w.			Resistor—Fixed, composition, 10 ohms, ±20%, ½ w.

REPLACEMENT PARTS - Continued

SYMBOL NO.	STOCK NO.	DESCRIPTION	SYMBOL NO.	STOCK NO.	DESCRIPTION
SIA to SID Incl.	103917	Switch—Function switch		100523 103911	Board—Terminal board for antenna cables Bracket—Mounting bracket and stud as
	103951	Part of Record Changer Part of R54			sembly for control knob escutcheon (3 reg'd)
S4	104363	See 'Miscellaneous'		104362 104364	Button—"Mark" push button with spring Button—"Stereo" push button with spring
Tl	75559	Part of Record Changer Transformer—1st FM IF transformer		104336	Cap—Pilot lamp cap
T2 T3	76335 76329	Transformer—1st AM IF transformer Transformer—2nd FM IF transformer		71892 30716	Catch—Cabinet door catch with strike Clip—Magic eye tube mounting clip with
T4	76328 77939	Transformer—2nd AM IF transformer		X3756	thumb screw Cloth—Grille cloth—for mahogany cabine
S2 S3 S4 S5 T1 T2 T3 T4 T5 T6	77938 76338	Transformer—3rd FM IF transformer Transformer—FM ratio detector transformer Coil—AM RF coil		X3757 X3758	Cloth—Grille cloth—for maple cabinet Cloth—Grille cloth—for toast oak cabinet
T8 T9	103335	Transformer—Power transformer Coil—AM oscillator coil		74752	Connector—2-contact male connector for FM antenna cable
T10	76337 104337	Transformer—Output transformer		74882	Connector—3 contact (polarized) male con- nector for AM loop antenna cable
	101344 103339	Bushing—Metal bushing for control shaft Bushing—Metal bushing for mounting RF		101868	Cushion—Felt cushion for record change
	70392	shelf assembly (2 req'd) Cable—AC power cable and plug		103919	drawer (4 req'd) Dial—Tuning control dial with AM/FM
	73935	Clip—Mounting clip for 2nd AM, 3rd FM and 1st AM, IF transformer		103920	calibrations Escutcheon—Tuning dial escutcheon
	74879	Connector—2-contact female connector for FM antenna cable		104174 104175	Escutcheon—Control knob escutcheon Escutcheon—Stereo switch escutcheon
	101998	Connector — 3-contact (polarized) female connector for AM antenna		103429	Eyelet—Metal eyelet for mounting chassis (4 req'd)
	68592	Connector — 8-contact female connector		104595	Flange Metal flange for mounting legs (4 reg'd) (oak cabinet) Grommet Rubber grommet for mounting
	70050	(socket) for magic eye V8 (less shell #75708)		75548	Grommet—Rubber grommet for mounting chassis (4 req'd)
	72953	Cord—Dial drive cord (approx. 59 inches req'd)		74308 79957	Hinge—Cabinet door hinge (1 set) Insulator — Rubber insulator for record
	74839	Fastener—Metal push fastener for mount- ing RF shelf assembly (2 req'd)			changer mounting stud (4 req'd)
	16058	Grommet — Rubber grommet — RF shelf mounting		103928	Jewel—Translucent white lucite jewel for control knob escutcheon (5 reg'd)
	100270	Grommet—Strain relief grommet for power cable (1 set)		103923 103924	Knob—Function control knob—with spring Knob—Tone control knob—with spring
	31480 103925	Lamp—Lamp Type #47 (3 req'd) Plate — Dial backplate with pulleys and		103921 103922	Knob—Tuning control knob—with spring Knob—Volume control knob—with spring
	103910	brackets		Z3762 103755	Leg—Metal leg with glide—for oak cabinet Motif — 'New Orthophonic High Fidelity
	102627	Pointer—Tuning dial pointer Pulley—Aluminum pulley ¾" O.D. for dial		76894	RCA Victor" motif Nut—#10 spring nut for record change
	103909	Shaft—Tuning control shaft		73634	mounting stud (4 req'd) Nut — Flat type spring nut for speake
	75708	Shell — Shell and grommet for connector #68592		33225	mounting screws Nut—Speednut, retainer for control knot
	73584 76331	Shield—Tube shield for V1 Shield—Tube shield for V2		74337	escutcheon jewels (5 req'd) Nut — Speednut, retainer for motif (2
	76972 100642	Socket—Dial lamp socket and lead as-		111	req'd)
	103992	sembly (2 req'd) Socket—Knob lamp socket and twin lead		104176 104157	Ornament—Cabinet "V" ornament Pull — Cabinet door and record change
	100643	assembly Socket—Pilot lamp socket with leads and		104150	drawer pull—for mahogany and maple cabinets
	74179	mounting bracket Socket—Tube socket 7-pin miniature for		104158	Pull — Cabinet door and record change drawer pull—for toast oak cabinet
	77937	VI Socket—Tube socket 7-pin miniature for		103912	Refractor—Plexiglass refractor for contro knob lamp
	31251	V3, V4, V5, V6 and V7 Socket—Tube socket—octal—for V9		104159	Roller—Nylon roller with mounting plate for record changer drawer
	68590	Socket—Tube socket—octal—for V12 and V13		103927 103427	Shield—Rubber shield for magic eye tube Slide—Extension slide for record change
	76336	Socket—Tube socket—9-pin miniature for V2		104128	drawer (1 set) Spring—Conical spring for mounting rec
	76971	Socket—Tube socket—9-pin miniature for		101069	ord changer (4 req'd) Spring—Retaining spring for volume con-
	100474	V10 Socket—Tube socket—9-pin miniature for		74734	trol knob Spring—Retaining spring for tone, func
	77585	Washer—''C'' type retaining washer for		78750	tion, or tuning control knobs Stud—Record changer mounting stud
		control shaft		104622	Washer-Felt washer for control knobs.
DO.	21040	RECORD CHANGER WIRING		79340	Washer—Fiber insulating washer for record changer mounting stud (4 reg'd)
P2	31048	Connector—Male pin connector for audio		103929 78753	Washer—Nylon washer for control knobs Washer — Rubber insulating washer fo
P3	30870	Connector—2-contact male connector for phono motor leads		102915	record changer mounting stud (4 req'd) Washer — Vellutex washer for dial (1)
	100211	Connector — Closed end connector for motor leads (2 req'd)			req'd)
		SPEAKER ASSEMBLY		X4140	CABINET PARTS Cabinet—Mahogany cabinet—wood
	100465	Speaker—31/2" PM speaker complete with		X4141 X4142	Cabinet—Maple cabinet—wood Cabinet—Toast oak cabinet—wood
	100897	Speaker—12" PM speaker complete with		X3750	Door—Cabinet door and record change drawer—matched set—for mahogan
C60	100509	Capacitor—Electrolytic, 8 mf., 10v AC		X3751	cabinet (less hardware)
	100909	Cone—Speaker cone and voice coil kit for 12" PM speaker		A3/31	Door—Cabinet door and record change drawer—matched set—for maple cabine
	100467	Housing — Plastic housing for 3½'' speakers		X3752	(less hardware) Door—Cabinet door and record change
	105113	MISCELLANEOUS			drawer — matched set — for toast oa cabinet (less hardware)
P4	100510	Connector — 4-contact male connector for push button switch cable		X3759	Panel—Record changer drawer back pane for mahogany cabinet
S4	104363	Switch — "Stereo"/"Mark" push button switch—less mounting bracket		X3760	Panel—Record changer drawer back pane —for maple cabinet
	100534	Antenna—AM loop antenna assembly		X3761	Panel—Record changer drawer back pane —for toast oak cabinet
	104339	Back—Cabinet back cover			

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