



RCA VICTOR



STEREO-HIGH FIDELITY COMBINATION MODELS

SHC568 "THE PARISIENNE"

SHC660 "THE CARIOCA"

SERVICE DATA



MODEL SHC568 "THE PARISIENNE"

MODEL SHC660 "THE CARIOCA"

ELECTRICAL AND MECHANICAL SPECIFICATIONS

TUNING RANGE

Standard Broadcast (AM) 540-1,600 kc.
Frequency Modulation (FM) 88-108 mc.

INTERMEDIATE FREQUENCIES

AM 455 kc. FM 10.7 mc.

POWER SUPPLY RATING

115 volts, 60 cycles, 145 watts (includes record changer)

TUBE COMPLEMENT

Symbol	Type	Function
V-1	RCA-6DT8	FM-RF Amplifier and Mixer-Oscillator
V-2	RCA-6BA6	1st. FM - IF Amplifier
V-3	RCA-6AU6	FM Driver and AM Detector
V-4	RCA-6AL5	FM Ratio Detector
V-5	RCA-6BE6	AM - Mixer - Oscillator
V-6	RCA-7025	Two Channel AF Amplifier
V-7	RCA-6BQ5	Right Channel Output
V-8	RCA-6BQ5	Left Channel Output
V-9	RCA-6CA4	Rectifier

RECORD CHANGER (COLLARD CONQUEST STEREO)

Turntable speed 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 or 78 r.p.m.
Record capacity Up to fifteen 7 inch
or twelve 10 inch
or ten 12 inch and 10 inch intermixed
Pickup (Stock No. 63-24044) Stereophonic Ceramic
Stylus (Stock No. 63-24045) 3 mil syn. sapphire
Stylus (Stock No. 63-24046) 0.7 mil diamond

MAXIMUM MUSIC POWER OUTPUT 6 watts (each channel)

FREQUENCY RESPONSE 50—20,000 cycles

LOUDSPEAKERS

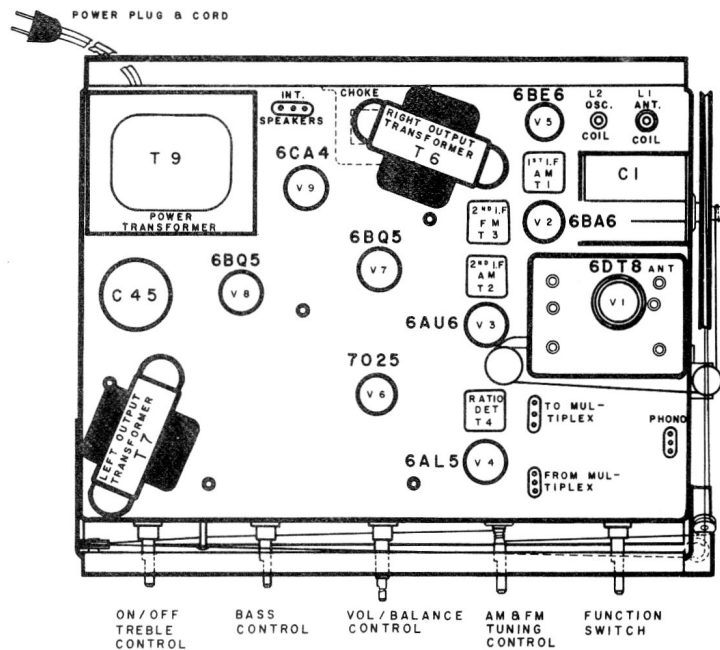
Two 10" PM "woofers" 8 ohms @ 400 cycles
Two 3 $\frac{1}{2}$ " PM "tweeters" 8 ohms @ 3000 cycles

SUPPLEMENTARY INFORMATION

Issue	Subject
List related Service Letters and Service Tips above.	

ISSUED BY
SERVICE DIVISION
RCA VICTOR COMPANY, LTD.
MONTREAL, CANADA

—1960 No. 3—



CHASSIS LAYOUT — Showing Location of Tubes and Components.

ALIGNMENT PROCEDURE

ALIGNMENT INDICATORS:

An RCA VoltOhmyst® or equivalent VTVM is necessary for measuring developed d-c voltage during FM alignment. Connections are specified in the alignment tabulation. An output meter is also necessary to indicate maximum audio output during AM alignment. Connect the output meter across the speaker voice coil. The RCA VoltOhmyst can also be used as an AM alignment indicator, either to measure audio output or to measure AVC voltage. When audio output is being measured, the volume control should be turned to maximum. Adjust tone control to mid-position.

SIGNAL GENERATOR:

For all alignment operations, connect the low side of the signal generator to the receiver chassis, close to the point of signal injection. If output measurement is used for AM alignment, the output of the signal generator should be kept as low as possible to avoid AVC action.

AM Alignment

FUNCTION SWITCH IN AM POSITION—VOLUME
CONTROL MAXIMUM—TONE CONTROL CENTER

Steps	Connect high side of sig. gen. to—	Set Sig. gen. to—	Set radio dial to—	Adjust— for max.
1	Pin #2 of V-7 in series with .01 mfd	455 kc. (mod.)	Quiet point at high freq. end	T-7 bottom core (sec.) top core (pri.)
2	Pin #1-V-6 in series with .01			T-6 Bottom core (sec.) T5 top core (pri.)
3	Short wire placed near loop for radiated signal	1620 kc. (mod.)	1620 kc. (gang fully open)	C-16B-T (osc.)
4				
5		600 kc. (mod.)	600 kc. signal	T-5 (rock gang)
6		Repeat Steps 4 and 5 until Maximum gain is obtained		

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

If an FM sweep generator is used for FM alignment, adjust for 10.7 mc, 0.4 mc sweep. Connect oscilloscope across C-13, adjusting T-4 top core for 10.7 mc crossover, and T-4 bottom core for balanced peaks. Peak separation should be approximately 330 kc. When aligning the other FM tuned circuits, connect oscilloscope lead through a 270K resistor to pin 1 of V-3. Follow alignment table sequence, adjusting for maximum gain and symmetrical curves.

FM Alignment

FUNCTION SWITCH IN FM POSITION—VOLUME
CONTROL MINIMUM—TONE CONTROL CENTER

Steps	Connect High side of sig. gen. to—	Set sig. gen. to—	Set radio dial to—	Adjust for—	
1	Pin #1 of V-2 (6BA6)	Connect VoltOhmyst across R-26			
2			—	Max. Top T-3	
3			—	Max. Bottom T-3	
4		10.7 mc	—	Max. Top T-4	
5			—	Max. Bottom T-4	
6		Repeat steps 2, 3, 4, 5			
7		Connect VoltOhmyst across R-26 Zero VoltOhmyst Half scale			
8		10.7 * mc	—	Zero Top T-4 pointer should swing through zero rapidly	
9		Antenna Terminal board through 270 ohms	87.5 * mc	Tuning coil slug closed	FM Tuner string drive collar *
10			108.5 * mc	Tuning coil slug opens	Max. Osc. trimmer
11	95 * mc		Tuning coil slug closed	Max. RF trimmer	

* Adjust output level of signal generator to provide approximately 1 volt indication on VoltOhmyst.

† Alternate loading may be required for accurate peaking; the winding not being peaked should be loaded with a resistor, 270 ohms in Step 8 and 470 ohms in Step 9.



REPLACEMENT PARTS LIST

Insist on Genuine Factory Tested Parts, which are readily identified and may be purchased from Authorized Dealers.

SYMBOL	STOCK NO.	DESCRIPTION	SYMBOL	STOCK NO.	DESCRIPTION
CHASSIS ASSEMBLY					
C1	*63-23846	Capacitor (AM Tuning)	R-19		Resistor-120 ohms 1/2W, 10%
C2		Capacitor-1000 mmf. 500V	R-20		Resistor-22000 ohms 1/2W, 10%
C3		Capacitor-56 mmf. 500V	R-21		Resistor-68000 ohms 1W, 10%
C4		Capacitor-.01 mfd. 500V	R-22		Resistor-1000 ohms 1/2W, 10%
C5		Capacitor-(In FM Tuner)2PF 500V N1500	R-23		Resistor-270 ohms 1/2W, 10%
C7		Capacitor-1000 mmf. 500V	R-24		Resistor-3300 ohms 1/2W, 10%
C8		Capacitor-4700 mmf. 500V	R-25		Resistor-68000 ohms 1/2W, 10%
C9		Capacitor-4700 mmf. 500V	R-26		Resistor-33000 ohms 1/2W, 10%
C10		Capacitor-.01 mfd. 500V	R-31		Resistor-1.2 megohms 1/2W, 10%
C11	*63-23900	Capacitor-33 NPC 500V	R-32		Resistor-68000 ohms 1/2W, 10%
C12		Capacitor-.01 mfd. 500V	R-33	*63-23881	Control (Bass)-Dual control-5.0 megohms
C13		Capacitor-.01 mfd. 500V	R-34		Resistor-27000 ohms 1/2W, 10%
C14		Capacitor-.047 mfd. 200V	R-35	*63-23882	Control-(Loudness)-Dual Control-1.5 megohms
C15		Capacitor-100 mmf 500V			Resistor-10 megohms 1/2W, 10%
C16		Capacitor-100 mmf. 500V	R-36		
C17		Capacitor-4700 mmf. 500V	R-37	part of 63-23882	Control-(Balance) 200 ohms
C18		Capacitor-4700 mmf. 500V	R-38		Resistor-68 ohms 1/2W, 10%
C19		Capacitor-100 mmf. 500V	R-39	*63-23850	Control-(Treble) 150,000 ohms
C20		Capacitor-330 mmf. 500V	R-40		Resistor-12000 ohms 1/2W, 10%
C21		Capacitor-1000 + 10% 500V	R-41		Resistor-220000 ohms 1/2W, 10%
C22		Capacitor-2200 mmf. 500V	R-42		Resistor-470000 ohms 1/2W, 10%
C23		Capacitor-.4700 mfd. 500V	R-45		Resistor-1.2 megohms 1/2W, 10%
C24	63-73747	Capacitor-2 mfd. 500V	R-46		Resistor-68000 ohms 1/2W, 10%
C25		Capacitor-2200 mmf. 500V	R-47		Resistor-27000 ohms 1/2W, 10%
C26		Capacitor	R-48		Resistor-10 megohms 1/2W, 10%
C27		Capacitor	R-49		Resistor-68 ohms 1/2W, 10%
C28		Capacitor-18 mmf. 500V	R-50		Resistor-12000 ohms 1/2W, 10%
C29		Capacitor-.0068 mfd. 400V	R-51		Resistor-220000 ohms 1/2W, 10%
C30		Capacitor-.015 mfd. 200V	R-52		Resistor-470000 ohms, 1/2W, 10%
C31		Capacitor-.01 mfd. 200V	R-53		Resistor-68 ohms 2W, 10%
C32		Capacitor-.01 mfd. 200V	R-54		Resistor-1200 ohms 2W, 10%
C33		Capacitor-.047 mfd. 400V	R-59		Resistor-820000 ohms 1W, 10%
C34		Capacitor-220 mmf. 500V	R-60		Resistor-2700 ohms 7W, 10%
C35		Capacitor	S-1	*63-23845	Switch-Function Switch
C36		Capacitor-18 mmf. 500V	T-1, } *63-23844		Transformer-1st & 2nd. IF-AM Transformer
C37		Capacitor-.0068 mfd. 400V	T-2 }		
C38		Capacitor-.015 mfd. 200V	T-3	63-77513	Transformer-2nd IF-FM Transformer
C39		Capacitor-.01 mfd. 200V	T-4	*63-23856	Transformer-FM Ratio Detector Transformer
C40		Capacitor-.01 mfd. 200V	T-6	*63-23855	Transformer-Right Channel Audio Output
C41		Capacitor-.047 mfd. 400V	T-7	*63-23854	Transformer-Left Channel Audio Output
C42	63-13028	Capacitor-25 mfd. 25V	T-9	*63-23849	Transformer-60 cycle Power Transformer
C43		Capacitor-220 mmf. 500V		*63-23852	Tuner-FM Tuner Assembly
C44		Capacitor	CHASSIS ASSEMBLIES		
C45	*63-23867	Capacitor-(Electrolytic)-35 x 35 x 20 x 20 mfd. /350/350/350/350V	*63-23568		Cable-Phono motor cable ass'y.
C46		Capacitor-3300 mmf. 100V	63-4313		Cord-Dial Drive Cord
C47		Capacitor	*63-23901		Cord-AC Power cord
C48		Capacitor-1000 mmf. 500V	62-11891		Lamp-Dial or Pilot Lamp
C49		Capacitor-4700 mmf. 500V	*63-23860		Plate-Dial Back Plate-Vinyl
C-101, } *63-23911		Capacitor-Electrolytic 2 mfd. 10V	*63-23866		Pointer-Dial Pointer
C-102 }			*63-23861		Shaft-Drive Shaft
L-1	62-13082	Coil-AM Antenna Coil	63-77937		Socket-7 Pin Socket for V2, V3, V5 & V9
L-2	63-23604	Coil-AM Oscillator Coil	63-20727		Socket-9 Pin Socket for V6, V7
L-4	*63-23847	Coil-Filter Choke	*63-23862		Socket-3 Pin Socket for Phono - Speaker-Multiplex
R-1		Resistor-1.0 megohms 1/2W, 10%	63-23718		Socket-Socket & Lead Ass'y. for Dial Light
R-2		Resistor-100 ohms 1/2W, 10%	*63-23903		Socket-Socket & Lead Ass'y. for Jewel Light
R-3		Resistor-33000 ohms 1/2W, 10%	MISCELLANEOUS CABINET ASSEMBLIES		
R-4		Resistor-22000 ohms 1W, 10%	63-23573		Antenna-FM Antenna Ass'y.
R-5		Resistor-47000 ohms 1/2W, 10%	*63-23868		Back-Back Cover-SHC568
R-6		Resistor-47000 ohms 1/2W, 10%	*63-23959		Back-Back Cover-SHC660
R-7		Resistor-4700 ohms 1/2W, 10%	63-23573		Board-AM-FM Antenna Terminal Board
R-8		Resistor-8200 ohms 1W, 10%	*63-23923		Button-Decorative Button-SHC660
R-9		Resistor-3300 ohms 1/2W, 10%	*63-23905		Cable-Phono Cable
R-10		Resistor-39000 ohms 1W, 10%	63-22034		Cap-Jewel Lamp Cap-Green
R-11		Resistor-39000 ohms 1/2W, 10%			
R-12		Resistor-68 ohms, 1/2W, 10%			
R-13		Resistor-39000 ohms 1/2W, 10%			
R-14		Resistor-22000 ohms 1W, 10%			
R-15		Resistor-1000 ohms 1/2W, 10%			
R-16		Resistor-2.2 megohms 1/2W, 10%			
R-17		Resistor-470000 ohms 1/2W, 10%			
R-18		Resistor-150000 ohms 1/2W, 10%			

* Indicates New Stock Items. Only items listed under stock numbers are available as Replacement Parts.

All parts subject to change or withdrawal without notice.

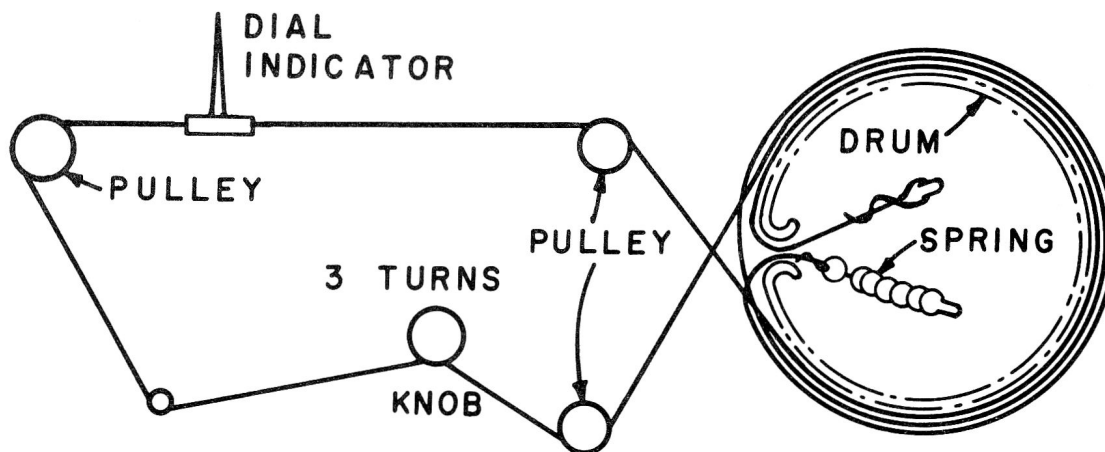
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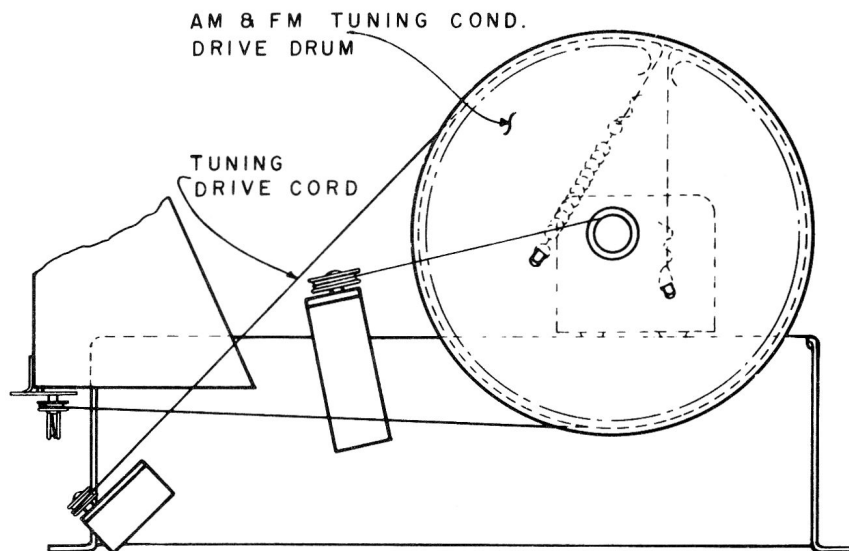
SYMBOL	STOCK NO.	DESCRIPTION	SYMBOL	STOCK NO.	DESCRIPTION
		MISCELLANEOUS CABINET ASSEMBLIES Cont'd.			
*63-23857		Changer-Record Player Mechanism - Collaro Conquest		63-23772	Knob Ass'y.-Volume Control Knob
*63-23877		Cloth-Grille Cloth-SHC568 - (18-1/2" x 22-1/2")		*63-23962	Leg-Square Leg - Wal. - SHC568
*63-23926		Cloth-Grille Cloth-SHC660 - (25" x 41")		*63-23992	Leg-Turned Leg- Wal. - SHC660
63-13049		Emblem-Dog Emblem		*63-23963	Leg-Square Leg-Mah. - SHC568
*63-23922		Emblem-Stereo Emblem		*63-23991	Leg-Turned Leg-Mah. - SHC660
*63-24047		Ferrule-Brass Ferrules - Square - SHC568		*63-23964	Leg-Square Leg-Oak - SHC568
63-23924		Ferrule-Plastiglidle Leg Ferrules - SHC660		63-24049	Leg-Turned Leg-Oak - SHC660
*63-24048		Hinge-Lid Butt Hinge, Wal.-Mah. instruments		*63-23858	Manual-Customers Instruction Manual
*63-23925		Hinge-Lid Butt Hinge Blonde instruments		63-74809	Nameplate - RCA Victor Nameplate
63-23791		Knob Ass'y.-Balance Control Knob		*63-23904	Plate-External Speaker Plate Ass'y.
63-23649		Knob Ass'y.-Bass-Function-Treble Control Knob		*63-23853	Scale - Dial Scale
63-23648		Knob Ass'y.-Tuning Control Knob		62-12968	Speaker-3-1/2" PM - (8 ohms) 2 req'd.
				*63-23851	Speaker-10" PM (8 ohms) 2 req'd.
				*63-23879	Support-Lid Support SHC568
				*63-23878	Support-Lid Support SHC660 - Wal.Mah.
				*63-23865	Support-Lid Support SHC660 - Blonde
				*63-23878	Trim-Decorative trim on Grille Cloth - SHC568
				*63-23865	Trim-Dial Scale Retainer Trim-SHC568
				*63-23965	Trim-Dial Glass Mounting Trip Strip - SHC660

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AM Dial Cord Arrangement — Capacitor in Closed Position



Right Side View of AM & FM Chassis showing Tuning Drive Cord Arrangement