



RCA VICTOR



SHC559

STEREO - HIGH FIDELITY RADIO - PHONOGRAPH COMBINATION

MODEL SHC-559



MODEL SHC559

TUBE COMPLEMENT

Symbol	Type	Function
V-1	RCA12BE6	Mixer -- Oscillator
V-2	RCA12BA6	IF Amplifier
V-3A	RCA12AU7	2nd Detector — AF Amplifier
V-3B		
V-4A/B	RCA12AU7	Audio Channel Amplifier
V-5	RCA35C5	Audio Output — Right Channel
V-6	RCA35C5	Audio Output — Left Channel

ELECTRICAL AND MECHANICAL SPECIFICATIONS

TUNING RANGE	
Standard Broadcast	540 — 1600 Kcs
IF	455 Kcs

POWER SUPPLY RATING

115 volts, 60 cycles, .45 amps, including record changer

RECORD CHANGER — Collaro Conquest Stereo.

Turntable Speed16-2/3, 33-1/3, 45 or 78 RPM
Record Capacityup to fifteen 7 inch or twelve 10
inch or ten 10 inch intermixed

Pick-up (Stereophonic) (Sapphire Stylus) S-23730

FREQUENCY RESPONSE45 cycles to 20,000 cycles

GENERAL DESCRIPTION

The Model SHC-559 is a stereophonic high-fidelity combination unit containing a four-speed Record Changer, 6-tube Radio Receiver and four speaker stereo network.

The Model SHC-559 is a complete stereophonic instrument as a unit; but provision is made for the use of an external left speaker system if so desired. A slide type switch is used to select between these two modes of operation.

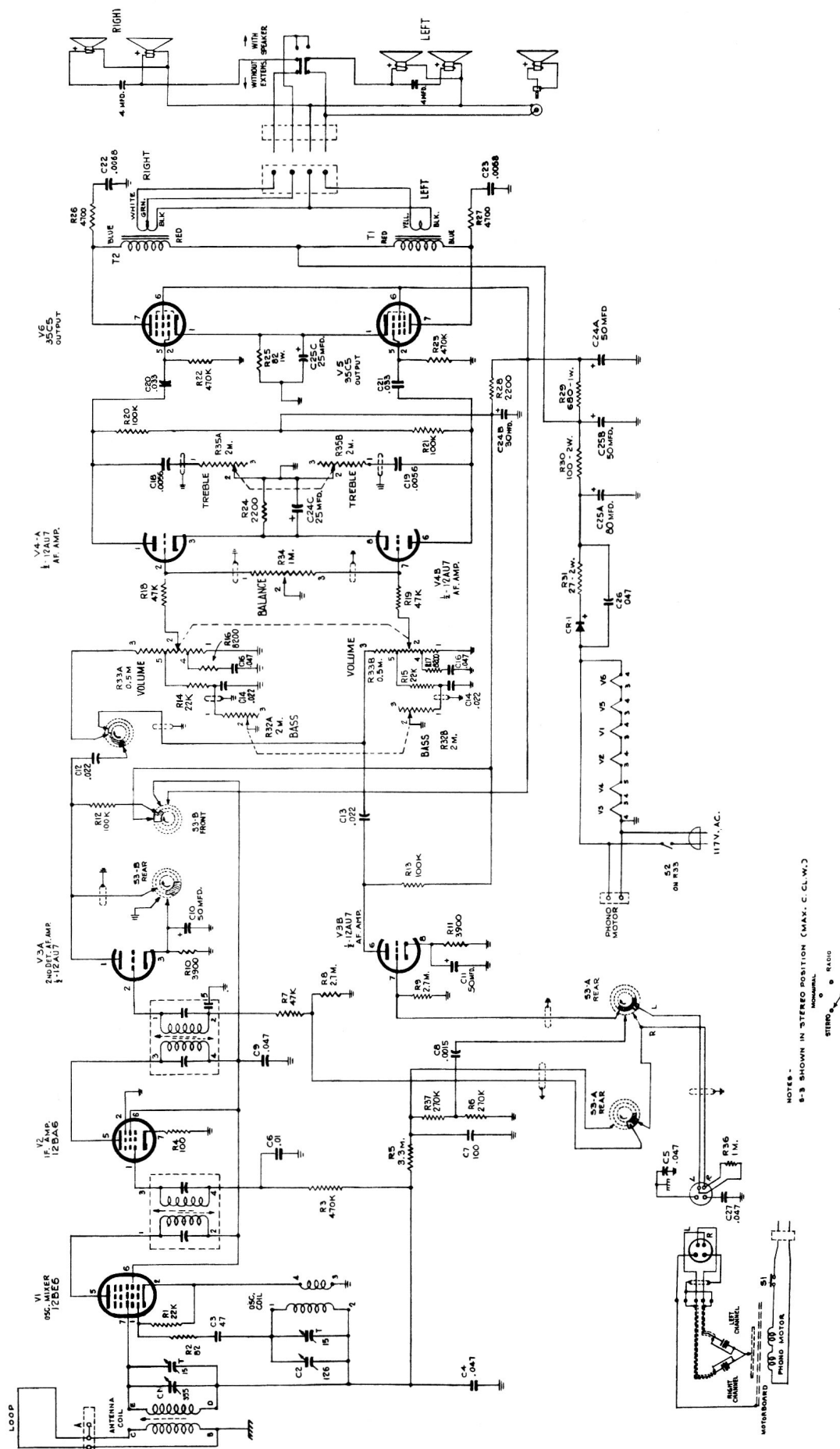
SUPPLEMENTARY INFORMATION

Issue	Subject
List related Service Letters above.	

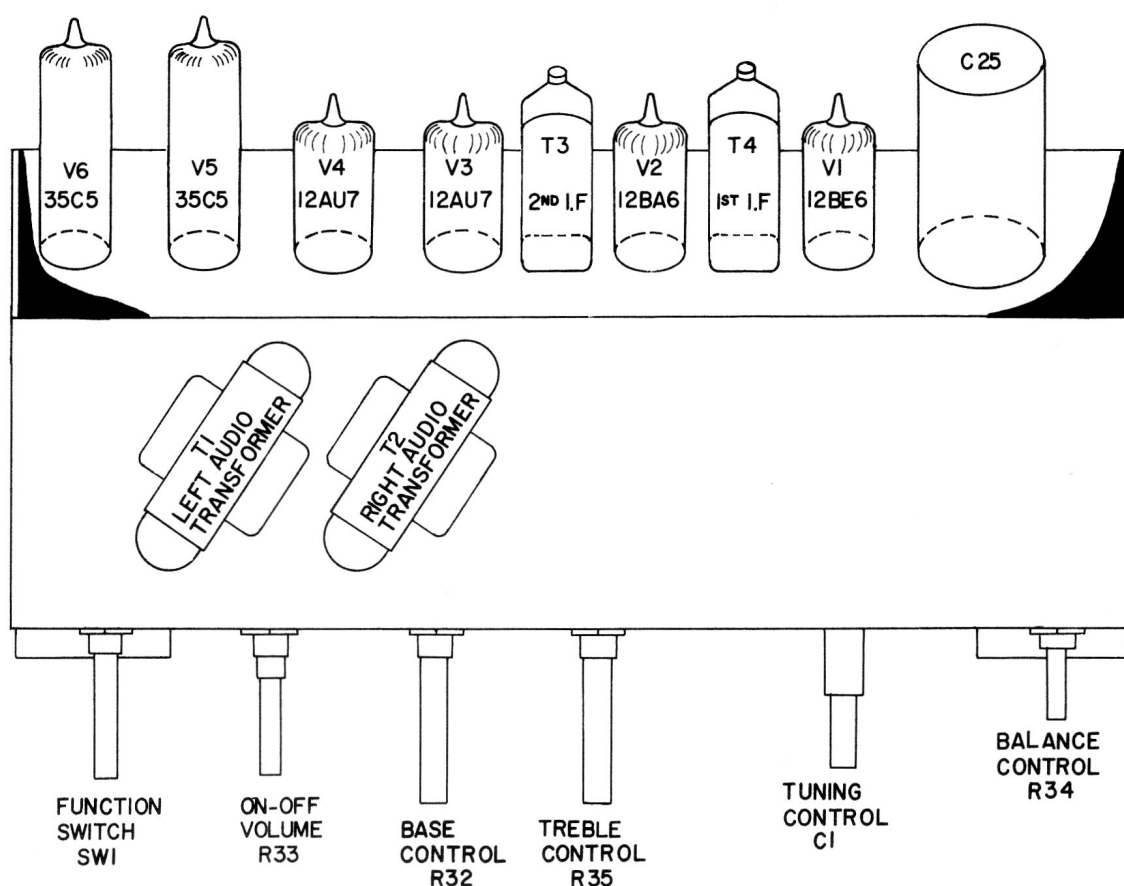
ISSUED BY

SERVICE DIVISION
RCA VICTOR COMPANY, LTD.
MONTREAL, CANADA

1959 No. 15



Schematic Diagram



Chassis Layout Showing Components

Alignment Procedure

Before aligning the receiver, set the gang condenser for maximum capacity and then set the dial knob opposite 55 on left hand end of the dial.

When only a portion of the circuit is to be aligned select the required portion and perform all the remaining steps.

In order to obtain best results, it is advisable to align the

455 KC I.F.'s with the help of a cathode ray oscilloscope. The scope should be connected across the volume control. If this equipment is not available, use the method outlined below in the alignment chart.

NOTE: If the test-oscillator is ac/dc operated, it may be necessary to use an isolation transformer (117 v./117 v. for the receiver during alignment.)

Alignment Chart

Order of Alignment		TEST OSCILLATOR					RECEIVER				
		Connect "Hi" Side To	Connect "Lo" Side To	Dummy Antenna	Frequency Setting	Range Select	Receiver Dial Setting	Circuit To Adjust	Adjust Adjustment Symbols	Notes	
I.F. ALIGNMENT	1	12BA6 Pin #1	Gnd.	.1 Mfd	455 KC		"Hi" End	2nd I.F. Trans.	Top & Bottom cores	Max.Out.	
	2	12BE6 Pin #7	Same	Same	Same	Same	Same	1st I.F. Trans.	Top & Bottom cores	Same	
S.B. ALIGNMENT	3	Radiate Signal				1600 KC		1600 KC	Osc.	C-1A	Same
	4	Same				1500 KC		1500 KC	Osc.	C-2A	Same
	5	Repeat Steps 3 & 4.									

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
C-1	*S-23267+	Capacitor-Variable capacitor	R-22		Resistor-470K ohms 10% 1/2W
C-2		Capacitor-	R-23		Resistor-470K ohms 10% 1/2W
C-3		Capacitor-47 mfd. 10% 500V	R-25		Resistor-82 ohms 10% 1W
C-4		Capacitor-0.047 mfd. 20% 400V	R-26		Resistor-4700 ohms 10% 1/2W
C-5		Capacitor-0.047 mfd. 20% 400V	R-27		Resistor-4700 ohms 10% 1/2W
C-6		Capacitor-0.01 mfd. 20% 400V	R-28		Resistor-2200 ohms 10% 1/2W
C-7		Capacitor-100 mmf. 10% 500V	R-29		Resistor-680 ohms 10% 1W
C-8		Capacitor-0.0015 mfd. 10% 600V	R-30		Resistor-100 ohms 10% 2W
C-9		Capacitor-0.047 mfd. 20% 400V	R-31		Resistor-27 ohms 10% 2W
C-10	S-13026+	Electrolytic-50 mf. 6V	R-32	*S-23270+	Control-(Bass)
C-11	S-13026+	Electrolytic-50 mf. 6V	R-33	S-23269+	Control-(OFF/ON Volume)
C-12		Capacitor-0.022 mfd. 10% 400V	R-34	S-12986+	Control-(Balance)
C-13		Capacitor-0.022 mfd. 10% 400V	R-35	*S-23271+	Control-(Treble)
C-14		Capacitor-0.022 mfd. 10% 200V	R-36		Resistor-1 megohm, 10% 1/2W
C-15		Capacitor-0.022 mfd. 10% 200V	R-37		Resistor-270,000 ohms, 10% 1/2W
C-16		Capacitor-0.047 mfd. 10% 200V	SW-1	*S-23268+	Switch-Function Switch
C-17		Capacitor-0.047 mfd. 10% 400V	T-1	*S-12993+	Transformer-Left Audio Output Transformer
C-18		Capacitor-0.0056 mfd. 10% 400V			
C-19		Capacitor-0.0056 mfd. 10% 400V	T-2	*S-12992+	Transformer-Right Audio Output Transformer
C-20		Capacitor-0.033 mfd. 10% 400V			
C-21		Capacitor-0.033 mfd. 10% 400V	T-3	75487 +	Transformer-2nd IF Transformer
C-22		Capacitor-0.0068 mfd. 10% 400V	T-4	75486 +	Transformer-1st IF Transformer
C-23		Capacitor-0.0068 mfd. 10% 400V			
C-24A/B	S-12981+	Electrolytic-50/30/20 mfd.150/150/25V			
C-25	S-12979+	Electrolytic-80/50/25 mfd.150/150/25V			
C-26		Capacitor-0.047 mfd. 20% 400V			
C-27		Capacitor-0.047 mfd. 20% 400V			
					SPEAKER ASSEMBLY
				S-12958+	Speaker-3-1/2" PM (2 req'd.)
				S-9973 +	Speaker-8" PM (2 req'd.)
				S-12969 +	Electrolytic-4 mfd. (2 req'd.)
CR-1	S-21276+	Rectifier-Selenium Rectifier			
L-1	S-12982+	Coil-Antenna Coil			
L-2	S-23297+	Coil-Oscillator Coil			
					MISCELLANEOUS ASSEMBLY
R-1		Resistor-22K ohms 20% 1/2W		*S-23730+	Cartridge-Sonotone
R-2		Resistor-82 ohms 10% 1/2W		*S-23731§	Cover-Back Cover
R-3		Resistor-470K ohms 20% 1/2W		*S-23732§	Escutcheon-Knob Escutcheon
R-4		Resistor-100 ohms 10% 1/2W			
R-5		Resistor-3.3 meg.ohms 20% 1/2W		S-12953+	Knob-Balance, Bass, Treble, Function, Volume
R-6		Resistor-470K 10% 1/2W		*S-23733+	Knob-Radio Tuning Knob
R-7		Resistor-47K ohms 20% 1/2W		*S-23734§	Bracket Assembly-Stereo Bracket Assembly
R-8		Resistor-2.7 meg.ohms 10% 1/2W			
R-9		Resistor-2.7 meg.ohms 10% 1/2W		S-22598§	Board-Antenna Terminal Board
R-10		Resistor-3900 ohms 10% 1/2W		*S-23273§	Manual-Customer's Instruction Manual
R-11		Resistor-3900 ohms 10% 1/2W			
R-12		Resistor-100K ohms 10% 1/2W		S-22227§	Support-Lid Support
R-13		Resistor-100K ohms 10% 1/2W			
R-14		Resistor-22K ohms 10% 1/2W		S-22387§	Emblem-Nipper
R-15		Resistor-22K ohms 10% 1/2W			
R-16		Resistor-8200 ohms 10% 1/2W		*S-23044§	Nameplate-RCA Victor
R-17		Resistor-8200 ohms 10% 1/2W			
R-18		Resistor-47K ohms 10% 1/2W		77937+	Socket-7 Pin Socket
R-19		Resistor-47K ohms 10% 1/2W		S-21269+	Socket-7 Pin Socket
R-20		Resistor-100K ohms 10% 1/2W		S-21270-	Socket-9 Pin Socket for 12AU7
R-21		Resistor-100K ohms 10% 1/2W		38853+	Socket-Phono Socket

* Indicates New Stock Items.

Only items listed under stock numbers are available as Replacement Parts.

All parts subject to change or withdrawal without notice.