

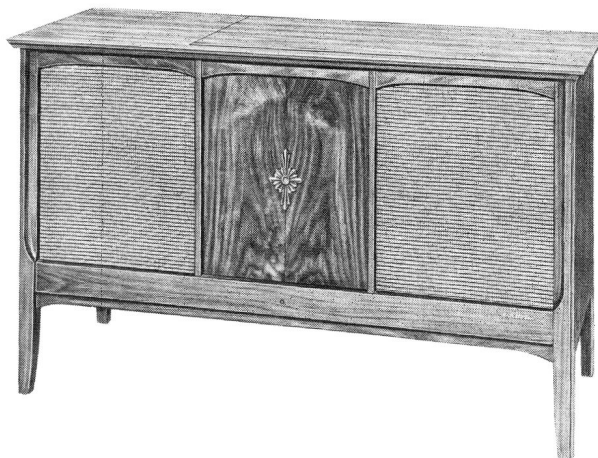


RCA VICTOR



STEREO-HIGH FIDELITY COMBINATION MODEL SHC762 "THE INTERMEZZO"

SERVICE DATA



MODEL SHC762 "THE INTERMEZZO"

ELECTRICAL AND MECHANICAL SPECIFICATIONS

TUBE COMPLEMENT

Symbol	Type	Function
V-1	RCA 6DT8	FM-RF Amplifier/Mixer Oscillator
V-2	RCA 6BA6	FM-IF
V-3	RCA 6DC8	FM/AM IF Amplifier & AM Detector AVC
V-4	RCA 6AU6	Limiter
V-5	RCA 6AL5	FM Ratio Detector
V-6	RCA 6BE6	AM Mixer Oscillator
V-7	RCA 7025	AF Amplifier
V-8	RCA 6BQ5	Right Channel Output
V-9	RCA 6BQ5	Left Channel Output
V-10	RCA 6CA4	Rectifier

POWER SUPPLY RATING

115 volts, 60 cycles, 145 watts (includes record changer)
Record Changer Collaro Studio
Turntable speed 16-2/3, 33-1/3, 45 or 78 r.p.m.
Record Capacity Up to fifteen 7 inch or twelve 10 inch or ten 12 inch or ten 10 inch and 12 inch intermixed
Cartridge 63-25237
Stylus 33-1/3, 45 r.p.m. — Diamond 63-24046
Stylus 78 r.p.m. — Sapphire 63-24053

TUNING RANGE

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

INTERMEDIATE FREQUENCIES

AM	455 kc.	FM	10.7 mc.
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MUSIC POWER OUTPUT 6 watts each Channel

FREQUENCY RESPONSE 45 cycles to 20,000 cycles

LOUDSPEAKERS

Two 3½" PM "tweeters"	6-8 ohms @ 3000 cycles
Two 10" PM "woofers"	8 ohms @ 400 cycles

ISSUED BY

SERVICE DIVISION PUBLICATIONS
RCA VICTOR COMPANY, LTD.
MONTREAL, CANADA

Price

—1961 No. 2—

AM/FM TUNER ALIGNMENT

ALIGNMENT INDICATORS:

An RCA VoltOhmyst®, or equivalent VTVM, is required to measure developed d-c voltage in FM alignment. Connections are noted in the alignment table. An output meter is also required to indicate maximum audio output in AM alignment. Connect the output meter across the speaker voice coil. The VoltOhmyst can also be used for AM alignment, either to measure audio output or AVC voltage. When measuring audio output, the volume control should be at maximum. Set tone controls to mid-position.

SIGNAL GENERATOR:

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

AM Alignment

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

Steps	Connect high side of sig. gen. to—	Set Signal gen. to—	Set radio dial to—	Adjust— for max.
1	Pin #7 of V-6 in series with .01 mid	455 kc. (modulated)	Quiet point at high freq. end	T-7 bottom core (sec.) top core (pri.)
2				T-6 bottom core (sec.) top core (pri.)
3	Short wire placed near AM ant. for radiated signal	1620 kc. (modulated)	1620 kc. gang fully open	Trimmer (T) across C-43B (osc.)
4		1400 kc. (modulated)	1400 kc. signal	Trimmer (T) across C-43A (ant.)
5		600 kc. (modulated)	600 kc. signal	T-5 (osc.) (rock gang)
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, set for 10.7 mc, 0.4 mc sweep. Connect oscilloscope from junction of C36 and R42 to ground, adjusting T3 (top) for 10.7 mc crossover, and

T3 (bottom) for balanced peaks. Peak separation should be approximately 330 kc. In aligning the other FM tuned circuits, connect oscilloscope to C-34. Follow alignment table, adjusting for maximum gain and symmetrical curves.

FM Alignment

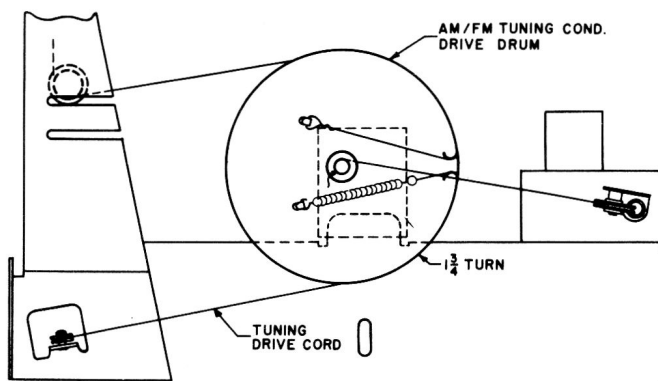
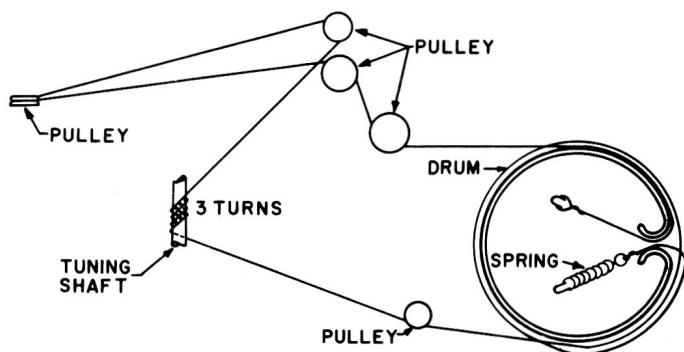
FUNCTION SWITCH IN FM POSITION—VOLUME CONTROL MINIMUM—TONE CONTROLS CENTER

Steps	Connect high side of sig. gen. to—	Set Signal gen. to—	Set radio dial to—	Adjust— for max.
6	Pin #1 of V-4 (6AU6)	Connect VoltOhmyst across C-34		
		10.7 mc		T-3 top core for ZERO voltage
7	Pin #1 of V-4 (6AU6)	Connect VoltOhmyst across R-41		
		10.7 mc		T-3 bottom core for MAXIMUM voltage
Repeat Steps 6 and 7 above. Connect VoltOhmyst to R-41				
8	Pin #2 of V-3 (6DC8)	10.7 mc *		T-2 top and bottom cores†
9	Pin #1 of V-2 (6BA6)			T-1 top and bottom cores†
10	FM antenna terminal board thru 270 ohms in each side			Pri. and sec. cores
11		87.5 mc *	Tuning condenser closed	FM tuner string drive collar
12		108.5 mc *	Tuning condenser fully open	Osc. trimmer in FM Tuner
13		Repeat steps 11 and 12 for Max. gain		
		95 mc *	Tuned to 95 mc signal	R-F trimmer in FM Tuner

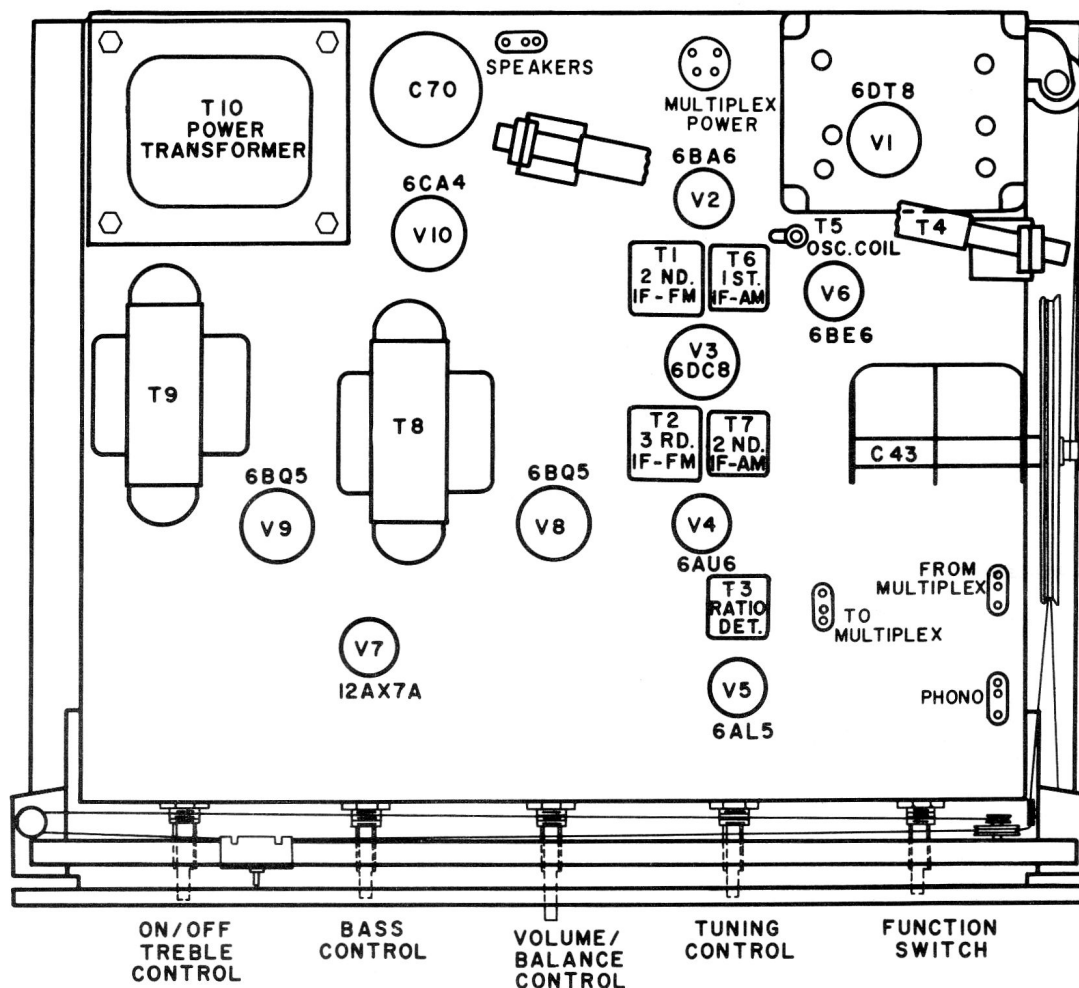
* Set output of generator to provide approx. 1 volt on VTVM.

† Alternate loading may be required for accurate peaking; the winding not being peaked should be loaded with 270 ohms.

Note: Do not adjust trimmer (FM) and (ant.) or neutrality trimmer (FM).



AM Dial Cord Stringing



Chassis Layout (Top View)

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					
C-1		Capacitor	C-36		Capacitor-.01 mfd. 500V
C-2		Capacitor-1000 mf. 500V	C-37		Capacitor-100 mmf. 500V
C-4		Capacitor-1000 mmf. 500V	C-38		Capacitor-1000 mmf. 500V
C-5		Capacitor-4700 mmf. 500V	C-39		Capacitor-.047 mfd. 200V
C-6		Capacitor-10 mf. 350V	C-42		Capacitor-5.6 mmf. 500V
C-7		Capacitor-4700 mmf. 500V	C-43	*63-24845	Capacitor-Variable-AM-Tuning
C-8		Capacitor-1000 mmf. 500V	C-44		Capacitor-1000 mmf. 500V
C-10		Capacitor-30 mmf. 500V	C-45		Capacitor-.047 mfd. 200V
C-11		Capacitor-4700 mmf. 500V	C-46		Capacitor-56 mfd. 500V
C-12		Capacitor-4700 mmf. 500V	C-47		Capacitor-.01 mfd. 500V
C-13		Capacitor-.01 mfd. 500V	C-50		Capacitor-330 mmf. 500V
C-15		Capacitor-100 mmf. 500V	C-51		Capacitor-18 mmf. 500V
C-16		Capacitor-4700 mmf. 500V	C-52		Capacitor-.0068 mfd. 400V
C-17		Capacitor-.01 mfd. 500V	C-53		Capacitor-.015 mfd. 200V
C-18		Capacitor-4700 mmf. 500V	C-54		Capacitor-330 mmf. 500V
C-19		Capacitor-.01 mfd. 500V	C-55		Capacitor-18 mmf. 500V
C-20		Capacitor-22 mmf. 500V	C-56		Capacitor-.0068 mfd. 400V
C-21		Capacitor-120 mmf. 500V	C-57		Capacitor-.015 mfd. 200V
C-23		Capacitor-.0047 mmf. 600V	C-58	62-13028	Capacitor-25 mf. 25V
C-26		Capacitor-56 mmf. 500V	C-61		Capacitor-.0068 mfd. 400V
C-27		Capacitor-220 mmf. 500V	C-62		Capacitor-.047 mfd. 400V
C-28		Capacitor-4700 mmf. 500V	C-63		Capacitor-680 mmf. 500V
C-31		Capacitor-330 mmf. 500V	C-64		Capacitor-.0068 mfd. 400V
C-32		Capacitor-330 mmf. 500V	C-65		Capacitor-.047 mfd. 400V
C-33		Capacitor-2 mfd. 50V	C-66		Capacitor-680 mmf. 100V
C-34		Capacitor-100 mmf. 500V	C-67	S-13028	Capacitor-25 mf. 25V
C-35		Capacitor-330 mmf. 500V	C-70	63-24452	Capacitor-Electrolytic-60/60/20/20 mfd. 350/350/350/350V
			C-73		Capacitor-4700 500V

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

All parts subject to change or withdrawal without notice.

REPLACEMENT PARTS LIST

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SYMBOL	STOCK NO.	DESCRIPTION	SYMBOL	STOCK NO.	DESCRIPTION
		CHASSIS ASSEMBLY-cont.			CHASSIS ASSEMBLY-cont.
C-74		Capacitor-4700 500V	R-71		Resistor-1.5 meg. 1/2W 10%
C-75		Capacitor-.01 500V	R-72		Resistor-220K ohms 1/2W 10%
C-76		Capacitor-.01 500V	R-73		Resistor-47K ohms 1/2W 10%
C-77		Capacitor-1000 500V	R-76		Resistor-68 ohms 2W 10%
C-78		Capacitor-.0047 mfd. 600V	R-77		Resistor-1200 ohms 2W 10%
L-1	62-73477	Choke-Heater	R-80		Resistor-130 ohms 5W 10%
R-1		Resistor-47K ohms 1/2W	R-81		Resistor-1800 ohms 5W 10%
R-2		Resistor-47K ohms 1/2W	R-82		Resistor-820K ohms 1W 10%
R-3		Resistor-100K ohms 1/2W	S-1	*63-24855	Switch-Function Switch
R-4		Resistor-4700 ohms 1/2W	T-1	*63-24852	Transformer-1st IF/FM Transformer
R-5		Resistor-8200 ohms 1W	T-2	63-24836	Transformer-2nd IF/AM Transformer
R-7		Resistor-100K ohms 1/2W	T-3	63-23856	Transformer-Ratio Detector
R-8		Resistor-33K ohms 1W	T-4	*63-24847	Transformer-Antenna Ferrite
R-10		Resistor-1800 ohms 1/2W	T-5	63-23604	Transformer-Oscillator Transformer
R-11		Resistor-	T-6	63-24835	Transformer-1st IF/AM Transformer
R-12		Resistor-68 ohms 1/2W	T-7	*63-24853	Transformer-3rd IF/FM Transformer
R-13		Resistor-1.0 meg. 1/2W	T-8	63-23015	Transformer-Right Audio Output
R-14		Resistor-39K 1W	T-9	63-25014	Transformer-Left Audio Output
R-15		Resistor-1000 1/2W	T-10	*63-24837	Transformer-Power Transformer- 60 cycle
R-18		Resistor-100K 1/2W			SPEAKER ASSEMBLY
R-19		Resistor-100 1/2W		62-14118	Speaker Ass'y-3-1/2" PM - 8 ohms - 2 required
R-20		Resistor-1.0 meg. 1/2W		63-24447	Speaker Ass'y-10" PM - 8 ohms - 2 required
R-21		Resistor-2.2 meg. 1/2W		62-12969	Electrolytic-4 mfd.
R-22		Resistor-39K ohms 1W			MISCELLANEOUS ASSEMBLY
R-23		Resistor-1000 ohms 1/2W		62-14162	Antenna-FM Antenna
R-26		Resistor-		*63-24995	Back-Back Cover
R-27		Resistor-180K ohms 1/2W		*63-24451	Clamp-45 RPM Spindle Retainer Clip
R-28		Resistor-390K ohms 1/2W		63-4313	Cord-Dial Cord
R-29		Resistor-1.0 meg. 1/2W		*63-24856	Cord-Power Cord
R-30		Resistor-470K ohms 1/2W		63-22034	Cap-Jewel Light Cap
R-31		Resistor-100K ohms 1/2W		*63-24993	Dial-Dial Scale
R-32		Resistor-150 ohms 1/2W		71-11891	Lamp-Dial Lamp
R-34		Resistor-15K ohms 1W		62-14120	Knob Ass'y-Balance Control
R-37		Resistor-68 ohms 1/2W		62-14298	Knob Ass'y Bass-Function-Treble
R-38		Resistor-390 ohms 1/2W		62-14259	Knob Ass'y Bass-Tuning Control Knob
R-39		Resistor-1200 ohms 1/2W		62-14300	Knob Ass'y Bass-Volume
R-40		Resistor-6800 ohms 1/2W		63-23904	Plate Ass'y-External Spkr Plate Ass'y
R-41		Resistor-6800 ohms 1/2W		*63-25123	Plate Ass'y-External Tape in-Tape out
R-42		Resistor-3300 ohms 1/2W		*63-24846	Plate Ass'y-Dial Back Plate Ass'y
R-43		Resistor-1.0 meg. 1/2W		*63-24844	Pointer-Dial Pointer
R-44		Resistor-1.0 meg. 1/2W		*62-24994	Manual-Customer's Instruction Manual
R-45		Resistor-68K 1/2W		62-14302	Retainer-Full Frame Retainer
R-48		Resistor-1.0 meg. 1/2W		63-24842	Shaft-Drive Shaft
R-49		Resistor-100 ohms 1/2W		62-14483	Socket-Jewel Light Socket & Lead Ass'y.
R-50		Resistor-33K ohms 1/2W		62-14150	Socket-Dial Light Socket & Lead Ass'y.
R-51		Resistor-22K ohms 1W		*63-24840	Socket-7 Pin Tube Socket
R-52		Resistor- ohms		*63-24841	Socket-9 Pin Tube Socket
R-55	*63-24848	Control-Bass Control		63-23862	Socket-Phono - Speaker - Multiplex
R-56		Resistor-1.2 meg. 1/2W		*63-24854	Trim-Control Trim
R-57		Resistor-68K ohms 1/2W		*62-14291	Tuner-FM Tuner
R-58		Resistor-27K ohms 1/2W			Support-Lid Support
R-59	*63-24849	Control-Loudness			Cloth-Grille Cloth
R-60		Resistor-1.2 meg. 1/2W			
R-61		Resistor-68K ohms 1/2W			
R-62		Resistor-27K ohms 1/2W 10%			
R-63		Resistor-1500 ohms 1/2W 10%			
R-66	*63-24850	Control-Treble Control-Off/On			
R-67		Resistor-1.5 meg. 1/2W 10%			
R-68		Resistor-220K ohms 1/2W 10%			
R-69		Resistor-47K ohms 1/2W 10%			
R-70	*63-24849	Control-Balance-Part of Vol. Control			

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