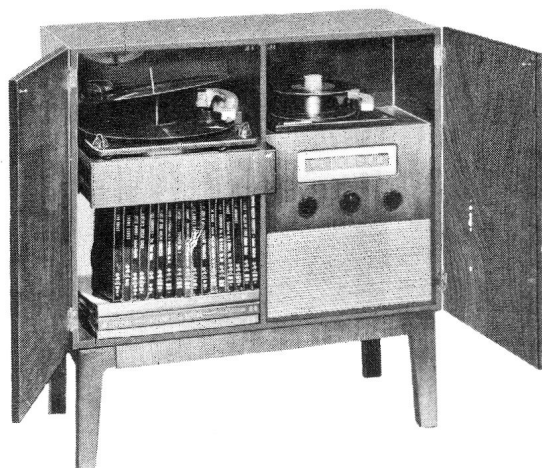




RCA VICTOR



RADIO-PHONOGRAPH COMBINATION

MODEL V405 SERVICE DATA

—1951 No. 8—

GENERAL SERVICE DIVISION
RCA VICTOR COMPANY, LTD.
MONTREAL, QUE.

MODEL V-405

Electrical and Mechanical Specifications

TUNING RANGE

Standard Broadcast540-1600 KC
Intermediate Frequency455 KC

TUBE COMPLEMENT

(1) Type 12BE6 Converter
(2) Type 12SF7 I.F. Amplifier, Det. & A.V.C.
(3) Type 12SC7 Audio Phase Inverter
(4) Type 35C5 Output
(5) Type 35C5 Output
Rectifier A selenium rectifier is used
Dial lamps (2) Mazda 47
Tuning Drive Ratio 11:1 (5½ turns of knob)

POWER SUPPLY RATING

Rating A.....105-125 Volts, 25 cycles, .40 amps. 46 watts
Rating B.....105-125 Volts, 60 cycles, .40 amps. 46 watts

LOUDSPEAKER

Size and type6x9 in. P.M.
Voice coil impedance3.4 ohms at 400 cycles

POWER OUTPUT

Undistorted2.5 watts
Maximum3.5 watts

RECORD CHANGER (RP-168C)

Turntable speed45 r.p.m.
Record capacityeight 7 in.
PickupCrystal (Medium output)

RECORD CHANGER (RP200)

Turntable speed33-78 r.p.m.
Record capacityten twelve or twelve ten
PickupCrystal (Medium Output)

CABINET DIMENSIONS

Height30½ inches
Width30 inches
Depth15½ inches



The Dial Scale drawing shown is a full size reproduction. It can be used as a reference in alignment procedure.

Fig. 1—Dial Scale

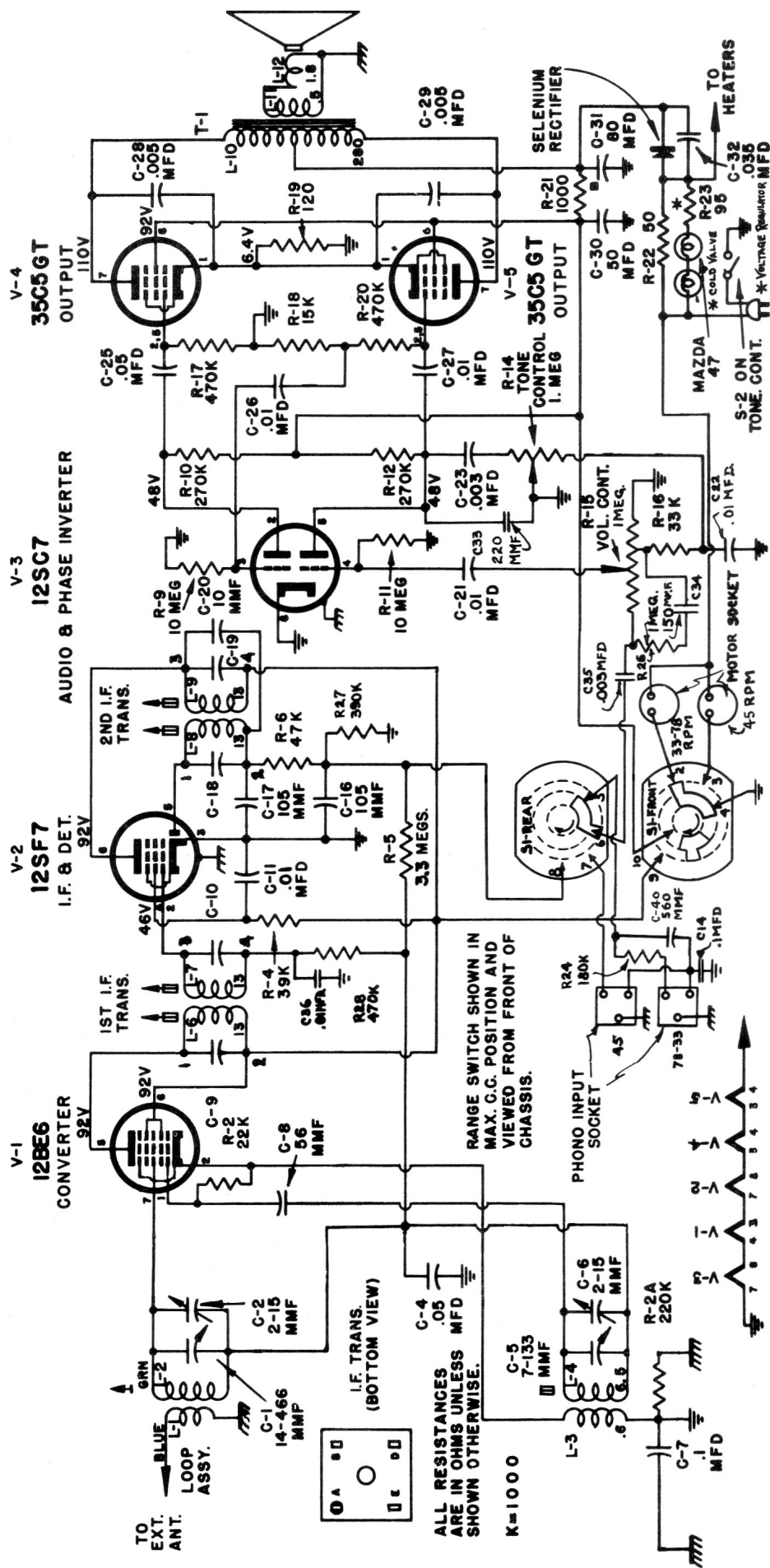


FIG. 2 — SCHEMATIC DIAGRAM

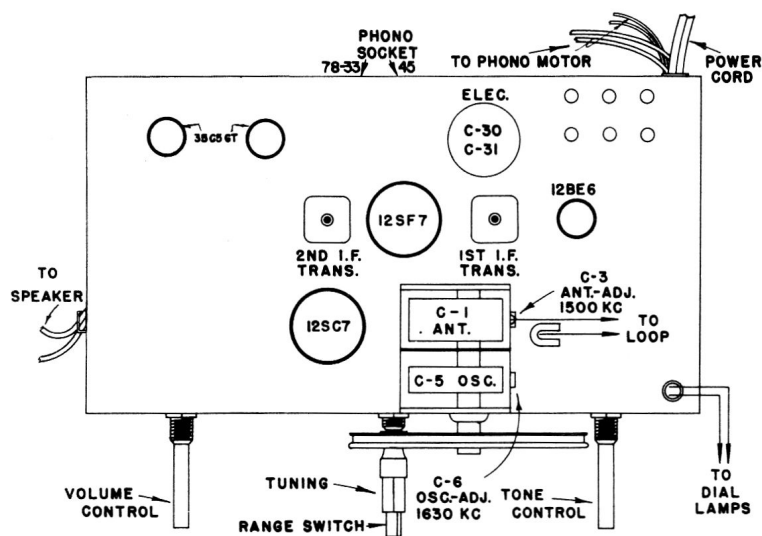


Fig. 3—Chassis Layout & Alignment Adj.

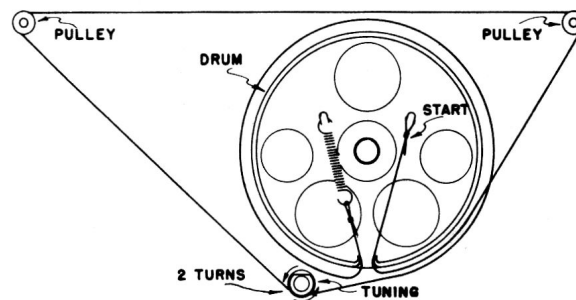


Fig. 4—Dial Cord Stringing

ALIGNMENT PROCEDURE

Before aligning the receiver, set the gang condenser for maximum capacity and then set the dial cursor on the calibration point at the extreme left hand end of the dial.

ALIGNMENT CHART

Order of Alignment	TEST OSCILLATOR				RECEIVER				
	Connect "HI" Side To	Connect "LO" Side To	Dummy Antenna	Frequency Setting	Range Selector	Receiver Dial Setting	Circuit To Adjust	Adjustment Symbols	Notes
I.F. Alignment	1 V-2, 12SF7 Pin #2	GND Common	0.1MFD	455KC	Radio	"HI" End	2nd I.F. Trans.	L-8, L-9	Max. Out.
	2 V-1, 12BE6 Pin #7	Same	Same	Same	Same	Same	1st I.F. Trans.	L-6, L-7	Same
	Repeat steps 1 and 2.								
S.B. Alignment	4 "Ant" Lead	Chassis GND	220 MMF	1500 KC	Same	1500 KC	S.B.-Osc.	C-6	Same
	5 Same	Same	Same	1500 KC	Same	1500 KC	S.B.-R.F.	C-2	Same
	Repeat Steps 4 & 5								

REPLACEMENT PARTS FOR MODEL V405

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
CHASSIS ASSEMBLY		CHASSIS ASSEMBLY (Cont'd)	
S-5385	Capacitor, ceramic 10 MMF, 10% 500V (C-20)		" 1.0 meg." 10%, 1/2 W (R-26)
S-4614	Capacitor, ceramic 56 MMF, 500V (C-8)		" 3.3 meg." 20%, 1/2 W (R-5)
	Capacitor, 2-105 MMF, & 47000 ohms (C-17, R-6)		" 10.0 meg." 20%, 1/2 W (R-9, R-11)
S-4221	Capacitor, mica 150 MMF, 10%, 500V (C-34)	S-5702	Switch-Radio-Phono switch (S-1)
	Capacitor, ceramic 220 MMF, 20% 350V (C-33)	S-5382	Selenium rectifier
	Capacitor, 560 MMF, 10% (C-40)	S-4487	Transformer- 1st. I.F. Trans.
	Capacitor, paper .003 MFD, 20% 200V (C-35)	S-4662	Transformer- 2nd. I.F. Trans.
	Capacitor, paper .003 MFD, 10% 400V (C-23)	S-5921	Transformer-Output Trans. (T-1)
	Capacitor, paper .005 MFD, 10% 600V (C-28, C-29)		
	Capacitor, paper .01 MFD, 10% 200V (C-22)	SPEAKER ASSEMBLY	
	Capacitor, paper .01 MFD, 20% 200V (C-11, C-21, C-26, C-36)	S-5922	Speaker (6x9)
	Capacitor, paper .01 MFD, 20% 400V (C-27)	S-5923	Cone-Cone & Voice Coil Assy.
	Capacitor, paper .035 MFD, 10% 400V (C-32)		
	Capacitor, paper .05 MFD, 20% 400V (C-4, C-25)	MISCELLANEOUS ASSEMBLY	
	Capacitor, paper .1 MFD, 10% 400V (C-7, C-14)	*S-6028	Cover-Cabinet back cover (Wal-Mah)
S-5703	Capacitor-electrolytic 50-80 MFD, 150V (C-30, C-31)	*S-6029	Cover-Cabinet back cover (Blonde)
S-5918	Condenser-gang cond. (C-1, C-5)	S-4313	Cord-Dial cord
S-5919	Control-Volume control (R-15)	*S-6207	Decals
S-5920	Control-Tone control (R-14)	*S-6030	Dial-dial scale
*S-6202	Coil-Oscillator coil	S-5994	Dial lamp socket & lead assembly
S-5459	Resistor, 13.5 ohms at 104°, 95 ohms at 38°, 20% (R-23)	S-6208	Grille cloth
*S-6027	Resistor, 50 ohms 3W (R-22)	S-4390	Knob-Tuning (Walnut)
	" 120 " 10%, 1W (R-19)	S-5275	" " (Mahogany)
	" 1000 " 10%, 1W (R-21)	S-5276	" " (Blonde)
	" 15000 " 10%, 1/2 W (R-18)	S-4387	" -Range SW (Walnut)
	" 22000 " 10%, 1/2 W (R-2)	S-5277	" " (Mahogany)
	" 33000 " 10%, 1/2 W (R-16)	S-5278	" " (Blonde)
	" 39000 " 10%, 1/2 W (R-4)	S-3870	" -Vol. & Tone (Walnut)
	" 180000 " 10%, 1/2 W (R-24)	S-5279	" " (Mahogany)
	" 220000 " 20%, 1/2 W (R-2A)	S-5280	" " (Blonde)
	" 270000 " 10%, 1/2 W (R-10, R-12)	S-5699	Loop assembly
	" 390000 " 10%, 1/2 W (R-27)	S-5272	Pointer-dial pointer
	" 470000 " 10%, 1/2 W (R-20)	*S-6209	Pull-door pull
	" 470000 " 20%, 1/2 W (R-17, R-28)	36422	Socket-phono socket
		S-5925	Trimmer-loop trimmer (C-2)
			* Indicates New Stock Item.

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

All parts subject to change or withdrawal without notice.