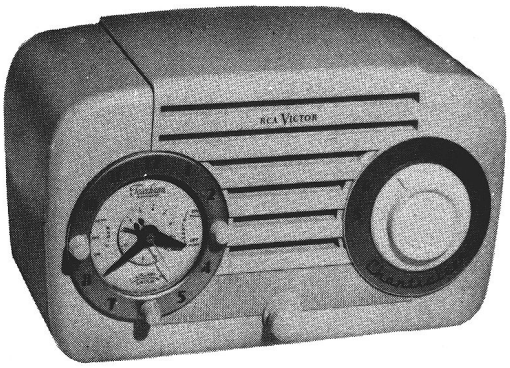

CHANTICLEER

RCA VICTOR

"HIS MASTER'S VOICE"

Five Tube AC Superheterodyne Receiver

CHANTICLEER
SERVICE DATA
— 1950 NO. 6 —

GENERAL SERVICE DIVISION
RCA VICTOR COMPANY LIMITED
MONTREAL, QUE.

Electrical and Mechanical Specifications

FREQUENCY RANGE

Standard Broadcast S.B.	540—1600 k.c.
Intermediate Frequency	455 k.c.

RADIOTRON COMPLEMENT

(1) 12BE6	Converter
(2) 12BA6	I.F. Amplifier
(3) 12AV6	Det. A.V.C. & 1st A.F.
(4) 50C5	Power Output
(5) 35W4	Rectifier

POWER OUTPUT

Undistorted	1.2 Watts
Maximum	2 Watts

LOUDSPEAKER

Type	4 inch Round P.M.
Voice coil impedance	3.4 ohms at 400 cycles

POWER SUPPLY RATINGS

Rating A	105—125 volts, 25 or 60 cycle, 30 watts

CABINET DIMENSIONS (Inches)

Height	5¾ inches
Width	10⅝ inches
Depth	5¾ inches

NOTE—For further detailed information on clock refer to RCA Victor service note on Telechron Timer, Type C-51-G5.

GENERAL DESCRIPTION

The RCA Victor Chanticleer is a five tube, single band, AC superheterodyne receiver, housed in a plastic cabinet of modern design. Features include preset automatic switching, and a 60 minute lullaby switch for the receiver and a 4 inch round PM speaker capable of handling the undistorted output of the receiver.

CLOCK-TIMER CONTROLS

1. The RADIO Control knob has three positions:—
   (1) AUTO—Connects power to radio through clock timing mechanism.
   (2) OFF—Disconnects power to radio.
   (3) ON—Connects power directly to radio.

2. The ALARM Control knob when pulled out, permits rotation of the small central disc to pre-set the time at which the radio is turned on automatically. The alarm buzzer, which is set when the knob is out, operates 10 minutes after the radio is turned on.

When the knob is pushed in, the alarm presetting mechanism is disengaged and the alarm buzzer is silenced.

3. The LULLABY SWITCH knob can be set to turn off the radio automatically after an interval of from zero (0) to sixty (60) minutes has elapsed.

4. The TIME-SET Control at the back of the receiver, directly behind the clock, is used to set the clock hands to the correct time.

CLOCK-TIMER OPERATION

Operation of the clock-timer may be most readily illustrated by means of the following example. Assume that it is now 6.30 p.m. and that it is desired to have the radio turn on automatically at 9 p.m.

1. Pull out the ALARM Control knob and rotate counterclockwise until "9" on the small central disc falls under the narrow pointer which is opposite (but attached to) the clock hour hand. Push the knob in again unless alarm buzzer action is required.

2. Set RADIO control to AUTO. The radio will be turned on automatically at 9 p.m.

After listening to the radio until 10.30 p.m. assume that it is desired to re-set the clock-timer to turn the radio on again at 7 a.m.

3. Pull out the ALARM control knob and rotate counterclockwise until "7" on the small central disc falls under the narrow pointer which is opposite (but attached to) the clock hour hand.

4. Set RADIO control to OFF, then back to AUTO. The radio is now off and will be turned on again at 7 a.m. The alarm buzzer will operate 10 minutes later.

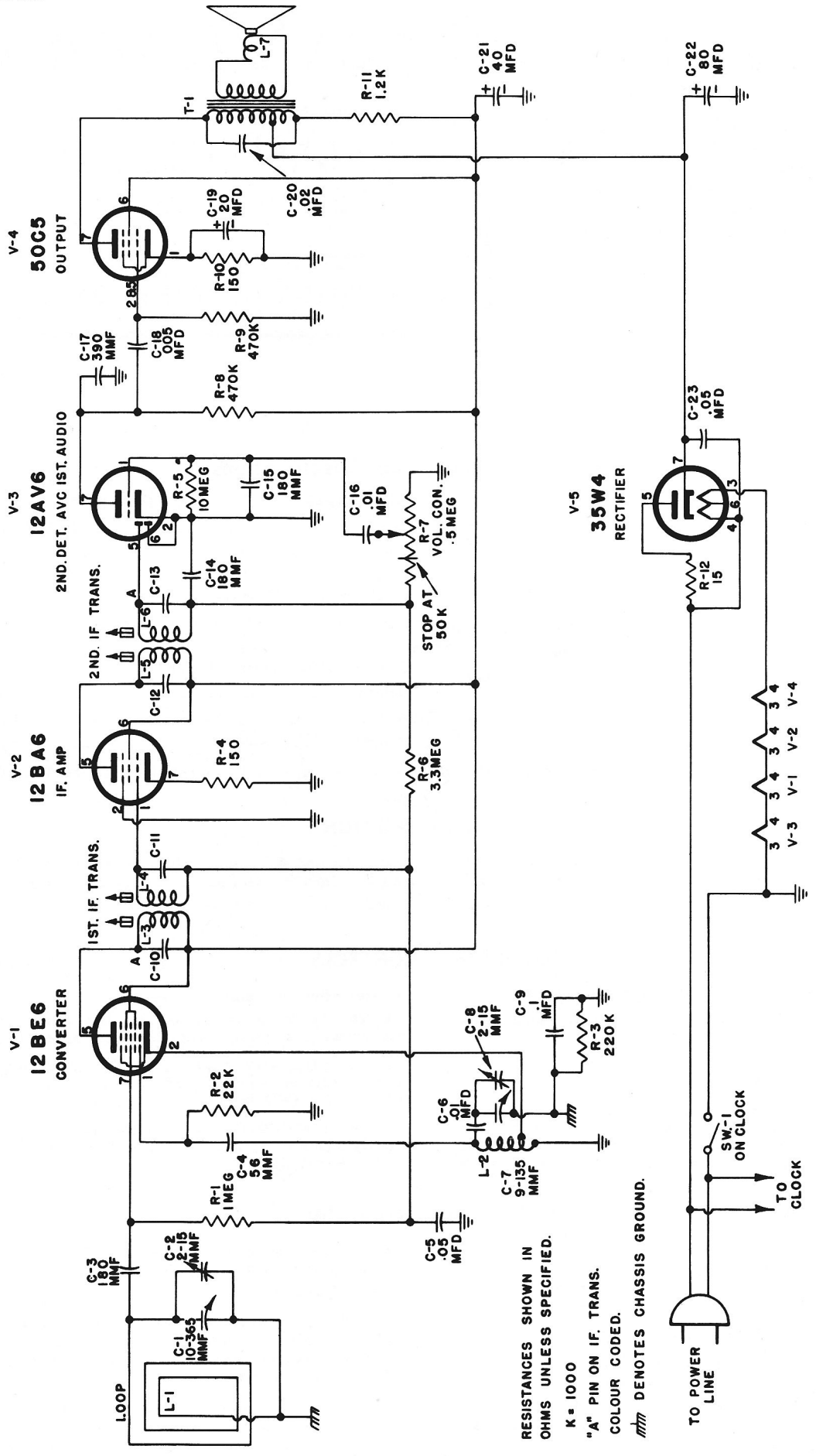

Fig. 1. Schematic Diagram

CLOCK-TIMER OPERATION (Cont'd.)

The clock timing mechanism may also be set to operate the alarm buzzer without simultaneously turning on the radio. Proceed as in section 3, then set RADIO control to OFF. The alarm will operate 10 minutes after the time set on the small central disc.

If it is desired to listen to the radio while going to sleep, the LULLABY SWITCH may be set to turn off the radio automatically after an interval of from zero (0) to sixty (60) minutes has elapsed, even though the RADIO control is set at OFF or to AUTO. It will not turn off the radio if the RADIO control is set at ON. The LULLABY SWITCH knob pointer should be set between zero (0) and sixty (60) in accordance with the number of minutes operation desired.

RADIO CONTROLS AND OPERATION

The radio may be turned on independently of the clock timing mechanism by turning the clock's RADIO control to ON, or may be turned on automatically through the clock timing mechanism as outlined under Clock-Timer Controls.

The VOLUME control is operated by the small central knob. Set it for the desired sound level.

The TUNING control is operated by the large knob at the right. The dial scale is calibrated in kilocycles less two zeros, except at 550 kc. where the dial calibration is 5 instead of 5.5. Rotate the tuning knob slowly over a narrow range at a frequency where the desired station is located, until the station is received with maximum volume; then re-adjust the sound level by means of the volume control. Never use the tuning control to adjust volume as the practice results in distorted tone quality and deficient bass response.

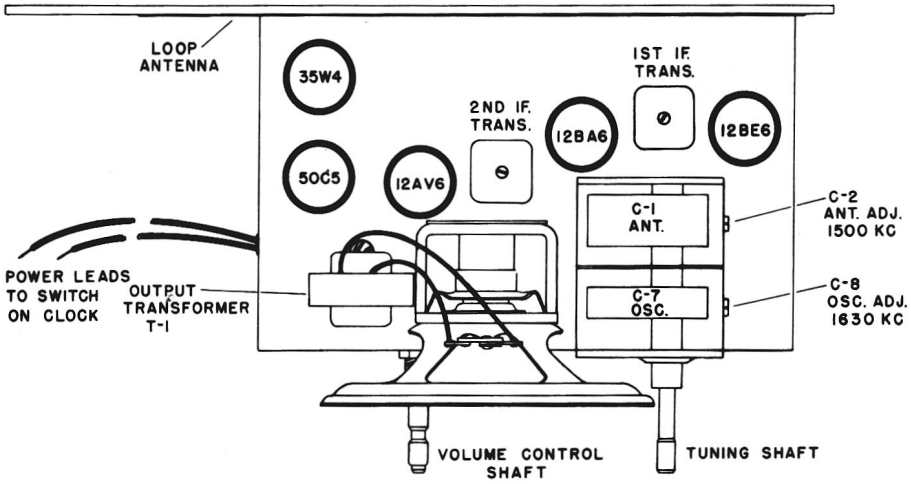

Fig. 2. Chassis Layout

ALIGNMENT PROCEDURE

For all alignment operations keep test oscillator output as low as possible to avoid A.V.C. action. On A.C. operation an isolation transformer (115v/115v) may be necessary if the test oscillator is also A.C./D.C. operated.

In order to obtain best results, it is advisable to align the 455 KC I.F.'s with the help of a cathode ray oscilliscope. If this equipment is not available, use the method outlined below in the alignment chart.

ALIGNMENT CHART

Order of Alignment		TEST OSCILLATOR				Range Selector	Receiver Dial Setting	Circuit To Adjust	Adjustment Symbols	Notes
		Connect "HI" Side To	Connect "LO" Side To	Dummy Antenna	Frequency Setting					
A.M. I.F. ALIGNMENT	1	12BA6 1st I.F. Grid	Ground thru.01 mfd.	.01 mfd.	455 K.C. 30% mod. 400 Cy. A.M.		High freq. end of dial	2nd I.F. Trans.	L5, L6	Adjust for max. A.C. voltage across voice coil.
	2	12BE6 Converter Grid	Same	Same	Same		Same	1st I.F. Trans.	L3, L4	Same
S.B. ALIGNMENT	3	Ant. Lead	Ground thru.01 mfd.	47 m.m.f.	1600 K.C. 30% mod. 400 Cy. A.M.		High freq. end of dial	Oscillator	C8	Adjust for max. A.C. voltage across voice coil.
	4	Same	Same	Same	1500 K.C. 30% mod. 400 Cy. A.M.		1500 K.C. on dial	Ant.	C2	Same

REPLACEMENT PARTS FOR CHANTICLEER

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

STOCK NO.	DESCRIPTION	LIST PRICE
	CHASSIS ASSEMBLY	
73867	Capacitor-Ceramic 56 mmf. (C4)	
S-5695	" -Mica 180 mmf.(C3,C14,C15)	
S-5694	" -Mica 390 mmf.(C17)	
	" -Paper .005 Mfd. 400 V.(C18)	
	" -Paper .01 " 200 V.(C16)	
	" -Paper .01 " 400 V.(C6)	
	" -Paper .02 " 400 V.(C20)	
	" -Paper .05 " 200 V.(C5)	
	" -Paper .05 " 400 V.(C23)	
	" -Paper .1 " 400 V.(C9)	
S-5574	" -Electrolytic 80-40-25 mfd. (C22,C21,C19)	
S-5573	Condenser-Variable (C1,C2,C7,C8)	
S-5689	Coil-Osc. coil (L2)	
	Resistor-15 ohms 1/2 watt (R12)	
	" -150 ohms 1/2 watt (R10,R4)	
	" -1200 ohms 1 watt (R11)	
	" -22,000 ohms 1/2 watt (R2)	
	" -220,000 ohms 1/2 watt (R3)	
	" -470,000 ohms 1/2 watt (R8,R9)	
	" -1 Megohm 1/2 watt (R1)	
	" -3.3 Megohm 1/2 watt (R6)	
	" -10 Megohms 1/2 watt (R5)	

STOCK NO.	DESCRIPTION	LIST PRICE
	CHASSIS ASSEMBLY- Cont'd.	
S-4487	Transformer-1st I.F.(L3,L4,C10,C11)	
S-5570	" -2nd I.F.(L5,L6,C12,C13)	
S-5572	Volume Control-(R7)	
	SPEAKER ASSEMBLY	
S-5575	Cone - Cone and Voice Coil Assembly	
S-5571	Output Transformer	
	MISCELLANEOUS ASSEMBLIES	
S-5576	Cabinet - Ivory	
S-5693	Cover-Back cover	
S-5568	Dial-Tuning Dial	
S-5690	Knob-Dial Knob	
S-5691	Knob-Volume Control	
S-5692	Loop-Antenna loop (L1)	
S-5569	Loop & back cover assembly	

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

All parts and prices subject to change or withdrawal without notice.