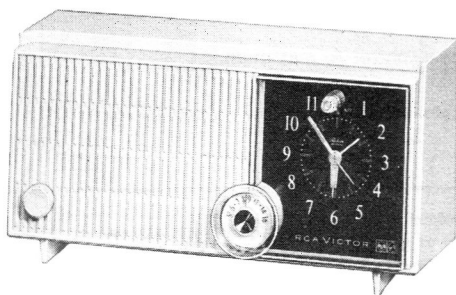




# RCA VICTOR



Model RC-28

## RADIO SERVICE DATA MODEL RC-28

### GENERAL INFORMATION

### ELECTRICAL SPECIFICATIONS

**FREQUENCIES**      **Tuning**      **IF**  
AM ..... 540-1600 kc ..... 455 kc

#### TUBE COMPLEMENT

(V1) RCA 12BE6 ..... Converter  
(V2) RCA 12BA6 ..... IF Amplifier  
(V3) RCA 12AV6 ..... Detector & Audio Amp.  
(V4) RCA 50C5 ..... Output  
(V5) RCA 35W4 ..... Rectifier

**LOUDSPEAKER** ..... 4" PM, 3.2 ohm v.c.

**WEIGHT** (approx.) ..... 3 1/4 lbs.

**Dimensions** (approx.)      **Height**      **Width**      **Depth**  
6 3/4"      12 3/4"      5 1/4"

#### POWER OUTPUT

Maximum ..... 1.3 watts  
Undistorted ..... 1.0 watts

**TUNING DRIVE** ..... 1:1 (Direct)

**POWER SUPPLY** ..... 120 volts

### DESCRIPTION

The model RC-28 is a table model clock radio receiver designed for the reception of AM broadcasts. This instrument is housed in a one piece plastic cabinet with a masonite back cover to which the loop antenna and power cord interlock are attached. With this arrangement the power cord is disconnected from the chassis when the back cover is removed.

### SUPPLEMENTARY INFORMATION LISTINGS

Issue	Subject

ISSUED BY

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

Price 35c

1967 No. 42  
Printed in Canada.

## OPERATING INSTRUCTIONS

**To Set Clock Time**—Pull out and turn the TIME-ALARM SET knob at the back of the cabinet behind the clock.

**To Set Alarm (Wake-Up) Time**—Push in and turn the TIME-ALARM SET knob. The alarm time may be preset up to approximately 11 hours in advance.

**To Play Radio**—Turn the SERVICE knob, located at the top of the clock face, to the "ON" position.

Select the desired station with the TUNING knob and adjust the loudness with the VOLUME knob.

When finished listening, turn the SERVICE knob to the "OFF" position.

**To Wake-Up To Music**—Set the desired wake-up time as explained under "To Set Alarm."

Select the desired station and adjust the loudness as explained under "To Play Radio."

Turn the SERVICE knob to the "AUTO" position. The radio will then turn itself on automatically at the time to which the alarm has been preset.

To silence the radio, turn the SERVICE knob to the "OFF" position.

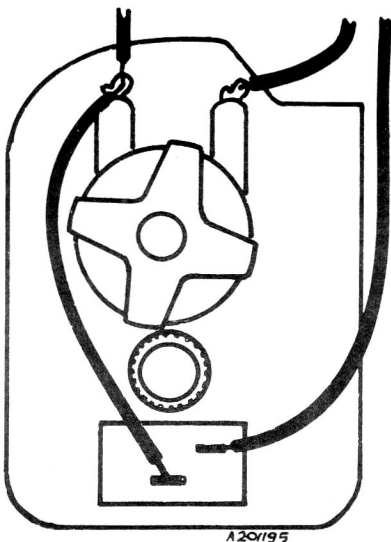
## CAUTION

THE CHASSIS IS CONNECTED DIRECTLY TO THE POWER LINE. TO AVOID SHOCK HAZARD, AN ISOLATION TRANSFORMER SHOULD BE USED DURING SERVICE WORK ON THE CHASSIS.

## ALIGNMENT PROCEDURE

1. For all alignment operations connect low side of signal generator to common negative.
2. Connect output indicator to voice coil terminals of loudspeaker.
3. Set volume control to maximum.
4. Keep generator output as low as possible to avoid AVC action.

Step	Connect high side of signal gen. to—	Set signal gen. to—	Turn radio dial to—	Adjust—for peak output
1	Pin #1 of V2 (12BA6) through .01 mf capacitor	455 kc (Modulated)	Quiet point near 1600 kc	T2 (2nd I-F trans.), top or bottom
2	Pin #7 of V1 (12BE6) through .01 mf capacitor			T1 (1st I-F trans.), top and bottom cores
3	Repeat steps 1 and 2			
4	Short wire placed near antenna to radiate signal	1620 kc (Modulated)	Gang fully open	C1-B-T (osc. trimmer)
5		1400 kc (Modulated)	1400 kc	C1-A-T (Ant. trimmer)
6		600 kc (Modulated)	600 kc (rock gang)	T3 (osc. coil)
7	Repeat steps 3, 4 and 5			

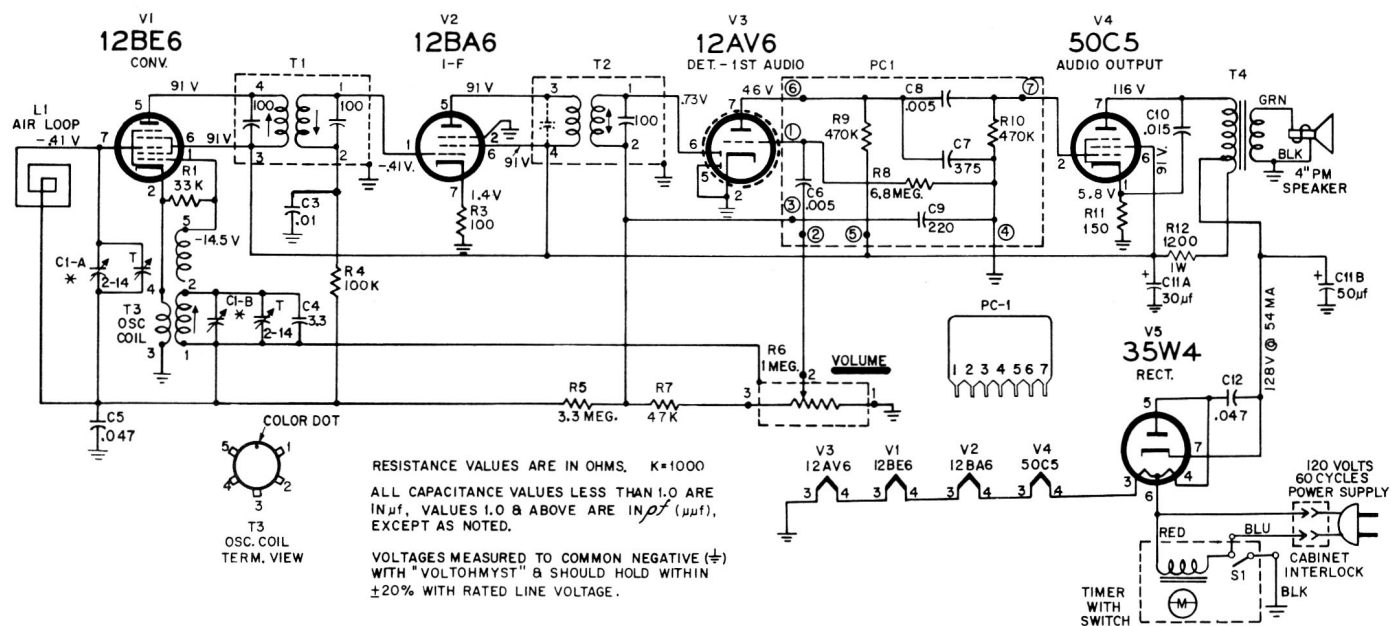


*Clock Wiring*

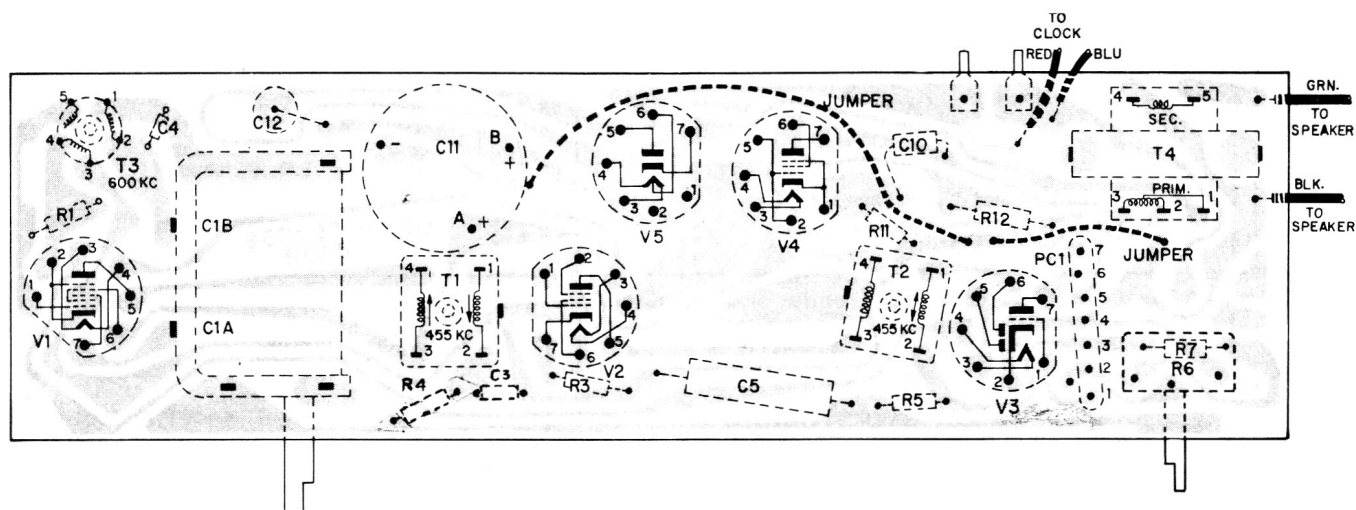
## TUBE AND CHASSIS ACCESSIBILITY

1. DO NOT ATTEMPT TO REMOVE THE KNOBS. The tuning and volume control knobs are held captive to the cabinet by retainers on their shafts.
2. Remove the back cover by lifting the protrusions on the bottom of the back cover out of the slots in the base of the cabinet.
3. Unsolder speaker leads if necessary. Avoid putting a strain on the speaker leads.
4. Remove two chassis retainers (screws or clips), one at the volume control and one of the left end mounting.
5. Grasp tuning capacitor and volume control, and pull chassis out of knobs and mounting slots.

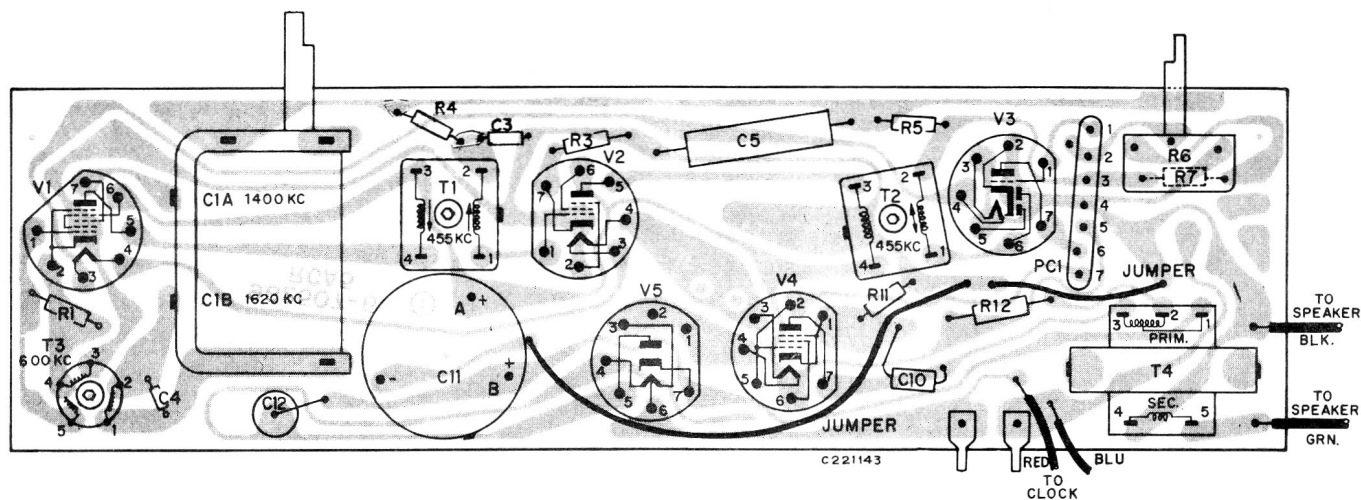
To reassemble—reverse above procedure.



Schematic Diagram



Chassis Layout (Wiring Side)



Chassis Layout (Component Side)

# 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-1A,B C-3 C-4 C-5,C-12 C-10 C-11A,B	63-111801	<b>Capacitors :</b> Variable-Tuning .01 uf-600 v. Ceramic-.33 pf, ± 10%, 500 v., N3300 Paper-.047 uf, 400 v. Ceramic-.015 uf, 600 v.		*63-8909 *63-8910 63-28110 62-106693 63-28069 63-21895 63-28069 63-26066 63-24774 63-28064 *63-10054	Cabinet-Cream Cabinet- Prov. White Clip-Circuit Board Clip-Power Cord Clip-Speaker Mtg. Clip-Timer Retainer Clip-Spring-Volume Knob Clip-Spring-Tuning Knob Connector-Interlock Cord-Power Cord Crystal-Timer
L-1	63-7410	Antenna-loop assy		63-28070	Hand-Timer-Second
PC-1	63-25670	Printed Circuit-includes C-6,C-7,C-8,C-9 & C-14 - R-8,R-9 & R-10		*63-10055 *63-10056 *63-10057	Hand-Timer-Minute Hand-Timer-Hour Hand-Timer-Time Set
		<b>Resistors : fixed composition, ½ w. unless otherwise specified</b>			
R-1 R-3 R-4 R-5 R-6 R-7 R-11 R-12	63-7406	33K 20% 100 ohms 10% 100K 20% 3.3 Meg ohms 20% Control-Volume 1M ohms 47K 20% 150 ohms 20% 1200 ohms 10% 1W		88-2709	Instructions-Customers Instruction Book
T-1 T-2 T-3 T-4	63-24467 63-108008 63-29950 63-26057	Transformer-1st IF Transformer-2nd IF Coil-Oscillator Transformer-output		*63-117377 *63-9162 *63-9163 *63-9164 63-29946	Knob-Tuning Knob-Volume, Tile Gray Knob-Volume-Cream Knob-Volume- Prov. White Knob-Switch
		<b>MISCELLANEOUS</b>			
	63-27364	Board-Printed Wiring Board		63-24551 63-8895 63-7352 62-16820	Socket-Tube, 7 Pin Socket-Tube, 7 Pin Shaft-Extension Shaft Assy. Speaker-4" P.M., 3.2 ohms V.C.
	*63-8908	Cabinet-Tile Gray		*63-9240 *63-9241	Timer-Assy Cream Cab. only Timer-Assy

\* Indicates New Stock Items.

Only items listed under stock numbers are available as Replacement Parts

All parts subject to change or withdrawal without notice.