



RCA VICTOR



AC-DC RADIO RECEIVER MODEL X600 SERVICE DATA —1950 NO. 16—

GENERAL SERVICE DIVISION
RCA VICTOR COMPANY LIMITED
MONTREAL, QUE.

Electrical and Mechanical Specifications

TUNING RANGE -----540-1600 kc
INTERMEDIATE FREQUENCY -----455 kc
TUBE COMPLEMENT
(1) RCA 6BJ6 ----- R.F. Amplifier
(2) RCA 12SA7 ----- Converter
(3) RCA 6BJ6 ----- I-F Amplifier
(4) RCA 12SQ7 ----- Det.—A.V.C.—A-F Amp.
(5) RCA 50L6GT ----- Output
(6) RCA 35Z5GT ----- Rectifier
POWER SUPPLY RATING
115 volts a.c., 50 to 60 cycles or d.c.-----30 watts
POWER OUTPUT
Undistorted ----- 1.1 watts
Maximum ----- 1.75 watts

DIAL LAMPS (2)-----Mazda type 1490, 3.2 volts, .16 amp.

LOUDSPEAKER

Size and Type -----8 in. PM
Voice Coil Impedance-----3.2 ohms at 400 cycles

CABINET DIMENSIONS

Height-----9 $\frac{3}{4}$ " Width-----12 $\frac{1}{2}$ " Depth-----8 $\frac{3}{8}$ "

WEIGHT ----- 10 lbs.

TUNING DRIVE RATIO -----9 to 1 (4 $\frac{1}{2}$ turns of knob)

POWER SUPPLY POLARITY.—For operation on d.c., the power plug must be inserted in the outlet for correct polarity. If the set does not function, reverse the plug. On a.c., reversal of the plug may reduce hum.

REPLACEMENT PARTS FOR MODEL X600

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		Speaker Assembly
	Capacitor, ceramic 2.2 MMF, 20% 350V (C-3A)		" 22000 Ohms 20% $\frac{1}{2}$ Watt (R-2)
	" " 47 MMF, 10% 350V (C-1A)		" 27000 Ohms 10% $\frac{1}{2}$ Watt (R-9)
	" " 56 MMF, 10% 350V (C-5A)		" 56000 Ohms 10% $\frac{1}{2}$ Watt (R-4)
	" " 82 MMF, 10% 350V (C-11)		" 220000 Ohms 20% $\frac{1}{2}$ Watt (R-12) (R-18)
	" " 150 MMF, 20% 350V (C-7)		" 470000 Ohms 20% $\frac{1}{2}$ Watt (R-13) (R-7)
	" " (C-14)		" 1.0 Megohm 10% $\frac{1}{2}$ Watt (R-8)
	" paper .001 MFD, 20% 200V (C-9)		" 3.3 Megohm 20% $\frac{1}{2}$ Watt (R-5)
	" " .003 MFD, 20% 400V (C-10)		" 10 Megohm 20% $\frac{1}{2}$ Watt (R-11)
	" " .01 MFD, 10% 200V (C-12)	*S-5761	Transformer, 1st I.F. Trans. (T-2)
	" " .01 MFD, 10% 400V (C-15)	*S-5762	" 2nd I.F. Trans. (T-3)
	" " .01 MFD, 10% 600V (C-17)	*S-5767	" Output Trans. (T-4)
	" " .02 MFD, 10% 200V (C-20)	*S-5822	Speaker (8 inches) Speaker Assembly
	" " .02 MFD, 20% 200V (C-13)	*S-5772	Cone - Cone & Voice Coil Assy.
	" " .05 MFD, 20% 400V (C-8)		Miscellaneous Assemblies
	" " (C-18)		Bezel
	" " .1 MFD, 10% 400V (C-19)	*S-5752	Cover - back cover less loop
*S-5768	" Electrolytic, 3 sections	*S-5823	Cover & loop
	1 - 40 MFD. (C-16A)	*S-5769	Cabinet
	2 -120 MFD. (C-16B)	*S-5749	Dial - dial scale
	(C-16C)	*S-5753	Dial Clip - R.H.
*S-5760	Condenser, Tuning Condenser (C1-C3-C5)	*S-5754	" " - L.H.
*S-5765	Coil - R.F. Coil (T-1)	*S-5757	Decalcomania
*S-5764	Coil - Oscillator Coil (L3)	*S-5758	Grille cloth assy.
*S-5766	Control - Volume Control 1.5 Meg. (R-10)	*S-5750	Knob Assy. (Tone - Phono)
*S-5771	Resistor, Fuss Type - 33 ohms, 20% (R-16)	*S-5751	Knob Assy. (Tuning - Volume)
	" , 150 Ohms 10% $\frac{1}{2}$ Watt (R-14)	*S-5824	Loop-Loop less back cover
	" , 220 Ohms 20% $\frac{1}{2}$ Watt (R-2A)	*S-5759	Monogram
	" , 330 Ohms 20% $\frac{1}{2}$ Watt (R-17)	*S-5756	Nut, Speed nut
	" 1000 Ohms 10% 1 Watt (R-15)	*S-5770	Pointer, Station Selector pointer
	" 12000 Ohms 10% $\frac{1}{2}$ Watt (R-3)	*S-5763	Switch, - Tone & power switch
	" 18000 Ohms 10% $\frac{1}{2}$ Watt (R-19)		
* Indicates new stock items			

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

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

Alignment Procedure

CRITICAL LEAD DRESS

1. Dress all heater leads down to chassis and away from all audio grid and plate wiring.
2. Dress power cord to back apron and away from phono jack.
3. Dress capacitor C18 against back apron.
4. Connect shielded capacitor C13 direct and with a minimum of exposed leads.
5. Dress dial lamp leads on top of chassis.
6. Dress output transformer leads down to chassis.
7. Dress excess loop leads away from tubes and clear of tuning condenser.

TEST-OSCILLATOR.—For all alignment operations, connect the low side of the test-oscillator to the receiver chassis, and keep the oscillator output as low as possible to avoid a-v-c action.

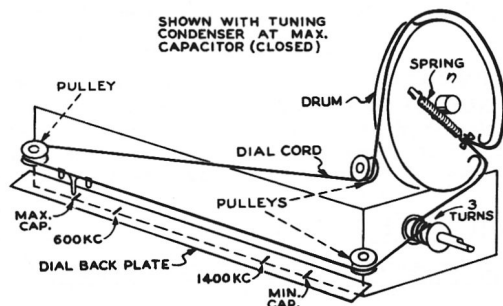
On AC operation an isolation transformer (115v./115 v.) may be necessary for the receiver if the test oscillator is also AC-DC operated.

DIAL CALIBRATION

With the tuning condenser fully meshed, the dial pointer should be set to the first score mark at the left-hand end of the dial back plate. The four score marks represent: Max. cap. 600 kc 1600 kc min. cap.

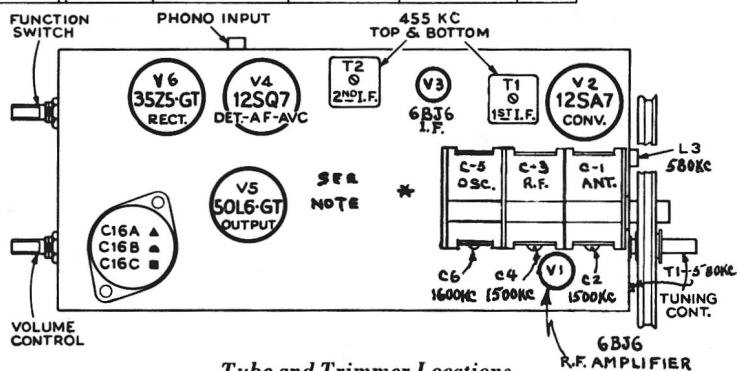
ALIGNMENT CHART

Order of Alignment	TEST OSCILLATOR				RECEIVER				
	Connect "H1" Side to	Connect "LOW" Side to	Dummy Antenna	Frequency Setting	Range Selector	Receiver Dial Setting	Circuit To Adjust	Adjustment Symbols	Notes
I.F. Alignment	1- V3 6BJ6 Pin #1	GND	"	455KC	S.B.	"L.H." of Dial	2nd IF. T3	Top & Bottom	Max-Out
	2- V2 12SA7 Pin #8	"	"	"	"	"	1st IF. T2	"	"
R.F. Alignment	3- Ant. Terminal	"	220 ohms	580KC	"	580KC	Oscillator & RF. Stage	L2 Core T1 Core	"
	4- " "	"	"	1600KC	"	"RH" of Dial	Osc. Trim.	C6	"
	5- " "	"	"	"	"	1500KC	R.F. Stage Ant. & R.F. Trim.	C4 & C2	"
	6- Repeat Steps 3, 4 & 5.								

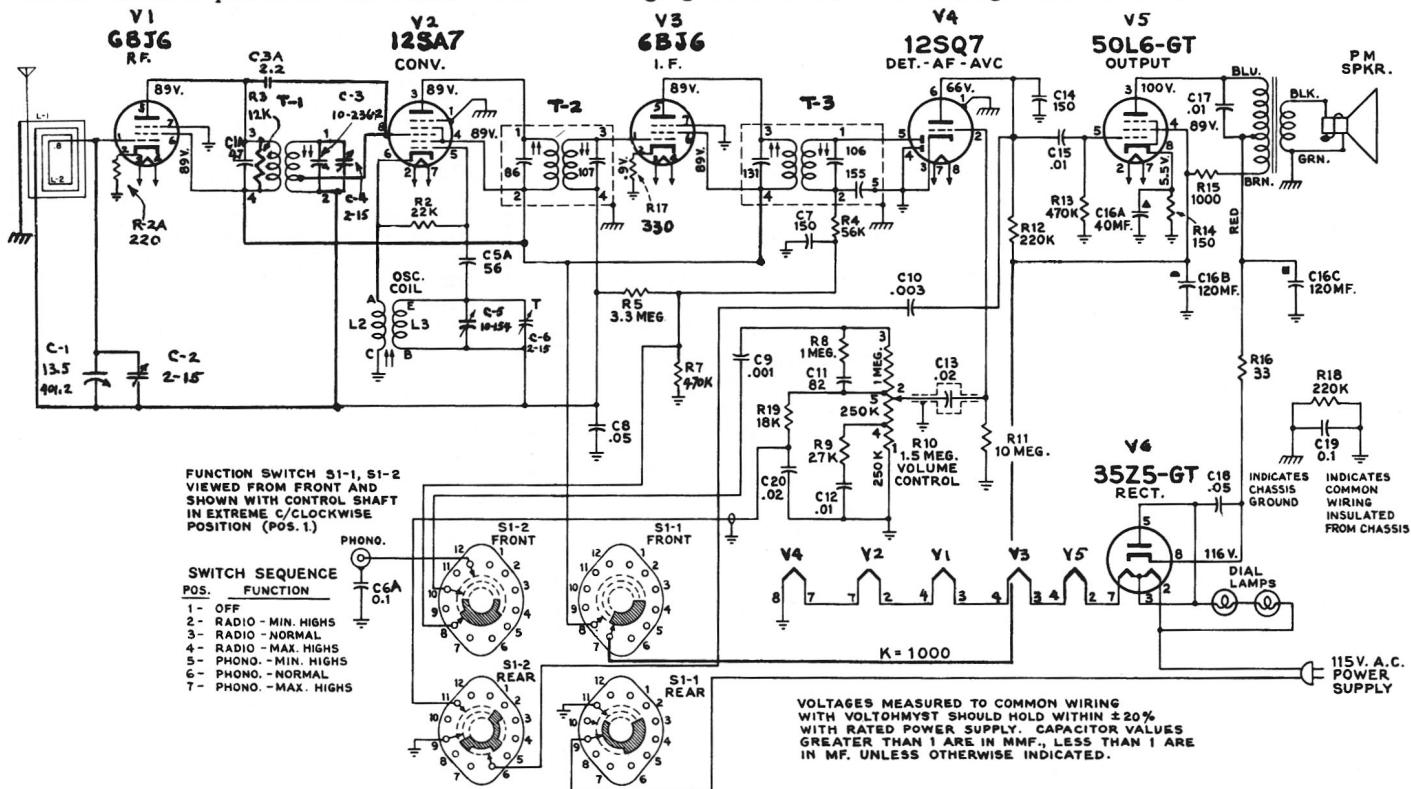


Dial Indicator and Drive Cord

NOTE: On later productions the antenna section of the gang condenser will be interchanged with the oscillator section.



Tube and Trimmer Locations



Schematic Circuit Diagram