





AC-DC RADIO RECEIVER MODEL X602 SERVICE DATA

-1952 NO. 6-

RCA VICTOR COMPANY, LTD.

MONTREAL, QUE.

Electrical and Mechanical Specifications

TUNING RANGE540-1600 kc	DIAL LAMPS (
INTERMEDIATE FREQUENCY455 kc Tube Complement	Loudspeaker Size and Ty
(1) RCA 6BJ6 R.F. Amplifier (2) RCA 12SA7 Converter	Voice Coil
(3) RCA 6BJ6 I-F Amplifier	CABINET DIM
(4) RCA 12SQ7Det.—A.V.C.—A-F Amp. (5) RCA 50L6GTOutput	Height9
(6) RCA 35Z5GT Rectifier	TUNING DRIV
Power Supply Rating	POWER SU
115 volts a.c., 50 to 60 cycles or d.c30 watts	the power plu
Power Output	polarity. If the
Undistorted 1.1 watts	On a.c., rever
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____93/4" Width____121/2" Depth____83/8"

TUNING DRIVE RATIO ______9 to 1 (41/2 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 X602

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

STOCK		STOCK				
NO.	DESCRIPTION	NO.	DESCRIPTION			
	Chassis Assembly Capacitor, ceramic 2.2 MMF, 20% 350V (C-3A)		" 22000 Ohms 20% ½ Watt (R-2) " 27000 Ohms 10% ½ Watt (R-9) " 56000 Ohms 10% ½ Watt (R-4)			
1	" 47 MMF, 10% 350V (C-1A)		" 220000 Ohms 20% 2 Watt (R-12) (R-18)			
	" 56 MMF, 10% 350V (C-5A)		" 470000 Ohms 20% 2 Watt (R-13) (R-7)			
	" 82 MMF, 10% 350V (C-11)		" 1.0 Megohm 10% ½ Watt (R-8)			
	" 150 MMF, 20% 350V (C-7) (C-14)		" 3.3 Megohm 20% 2 Watt (R-5) " 10 Megohm 20% 2 Watt (R-11)			
	<pre>paper .001 MFD, 20% 200V (C-9)</pre>	S-5761	Transformer, 1st I.F. Trans. (T-2)			
	" .003 MFD, 20% 400V (C-10)	S-5587	" 2nd I.F. Trans. (T-3)			
	" .01 MFD, 10% 200V (C-12)	S-5767	" Output Trans. (T-4)			
	" .01 MFD, 10% 400V (C-15)		C11			
	" .01 MFD, 10% 600V (C-17)		Speaker Assembly			
	" .022 MFD, 10% 200V (C-20)					
	" .02 MFD, 20% 200V (C-13)	S-5822	Speaker (8 inches)			
	" .047 MFD, 20% 400V (C-8)	S-5772	Cone - Cone & Voice Coil Assy.			
	(C-18) " " .1 MFD, 10% 400V (C-19)		Miscellaneous Assemblies			
S-5768	(C-6A)	S-3467	Cord - Power Cord			
5-3/66			Cover - back cover less loop			
			Cover & loop			
1	(C-16C)	*S-6701 *S-6703	Dial back plate assy.			
S-5760	Condenser, Tuning Condenser (C1-C3-C5)	*S-6705	Dial - dial scale			
S-5765	Coil - R.F. Coil (T-1)	S-5757	Decalcomania			
S-5764			Emblem "RCA Victor"			
S-5766		*S-6707	Grille assy.			
S-5771	Resistor, Fuss Type - 33 ohms, 20% (R-16)	*S-6706	Grille cloth assy.			
	* . 150 Ohms 10% \(\frac{1}{2}\) Watt (R-14)		Knob assy (Tone - Phono)			
1	" , 220 Ohms 20% 3 Watt (R-2A)	*S-6708 *S-6700	Knob assy (Tuning - Volume)			
			Loop - Loop less back cover			
	" 1000 0hms 10% 1 Watt (R-15)		Pointer - Station selector pointer			
! !	12000 Ohms 10% Watt (R-3)	S-5763	Switch - Tone & power switch			
	* 18000 Ohms 10% 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

- Dress all heater leads down to chassis and away from all audio grid and plate wiring.
- Dress power cord to back apron.and away from phono jack.
- 3. Dress capacitor C18 against back apron.
- 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.
- 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.

2NOI.F.

580KC

TUNING CONT.

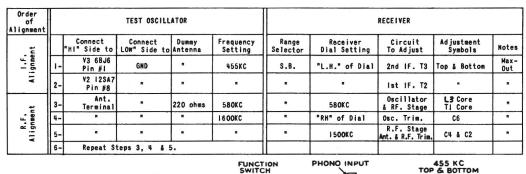
C5

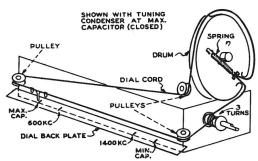
OSC

6BJ6

12SQ7

ALIGNMENT CHART





DRUM

DIAL CORD

DIAL CORD

DIAL CORD

DIAL CORD

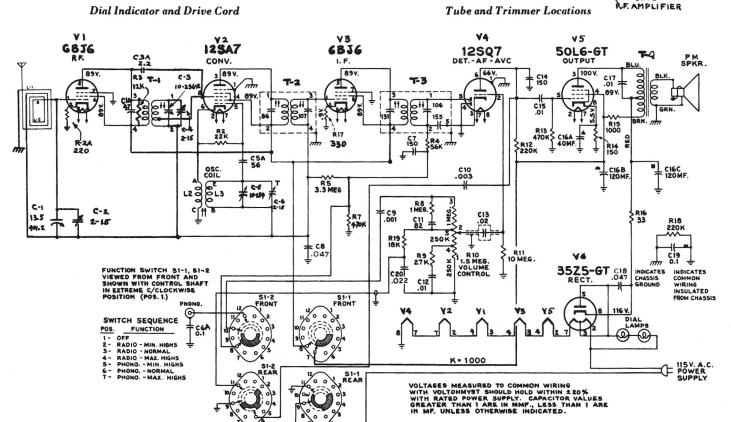
DIAL CORD

OCIGA A

CIGA B

CIGC B

VOLUME
CONTROL



Schematic Circuit Diagram