

## R.C.A. Victor Co., Inc.

**Model:** 16X-11

**Chassis:**

**Year:** Pre April 1941

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

### Resources

**Riders Volume 12 - RCA 12-26**

**Riders Volume 12 - RCA 12-28**

MODELS 15X, 16X-1,  
16X-2, 16X-3  
MODELS 16X-11,  
16X-13, 16X-14  
MODELS 500, 501

RCA MFG. CO., INC.

MODEL BP-10

MODELS 15X, 16X-1, 16X-2, 16X-3

Precautionary Lead Dress:

- .01 mfd. capacitor from output plate to cathode to be dressed as far as possible away from .015 mfd. 1st audio grid condenser and volume control terminals to eliminate audio howl.
- Filament lead to pin No. 7 on 95L6-GT socket to be dressed away from 1st audio grid.
- Dress B+ lead on 12SK7 I.F. socket across bottom of socket between grid and plate contacts to aid reduction of grid plate capacitance.
- Dress excess lead lengths of I.F. transformer, grid and plate leads into cans to aid shielding.
- Dress filament leads of 95L6-GT around 12SQ7 socket and into chassis corner to reduce hum.

Alignment Procedure

Output Meter Alignment.— If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-Oscillator.— For all alignment operations, keep the output as low as possible to avoid a-v-o action.

MODELS 500, 501

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1	12SK7 grid in series with .001 mfd.	455 kc	Quiet Point at 1,600 kc end of dial	C17, C18 (2nd I-F Trans.)
2	12SA7 grid in series with .001 mfd.			C15, C16 (1st I-F Trans.)
3	Antenna term. of ant. trans. in series with 100 mmfd.	1,720 kc	Full clockwise (out of mesh)	C14 (oscillator)
4		1,500 kc	Resonance on 1,500 kc signal	C12 (antenna)

Steps	Connect the high side of test-osc. to—	Tune test-osc. to—	Turn radio to—	Adjust the following for maximum peak output
1	12SK7 I-F grid, in series with 0.1 mfd.	455 kc	Quiet Point at 1,700 kc end of dial	C23, C22 2nd I-F transformer
2	12SA7 1st det. grid, in series with 0.1 mfd.			C21, C20 1st I-F transformer
3	12SK7 R-F grid, in series with 0.1 mfd.	1,720 kc	1,720 kc	C18 (osc.)
4		Radiated signal 1,300 kc	Signal frequency	C16 (ant.)
5	Repeat steps 3 and 4			

Alignment Procedure

MODELS 16X-11, 16X-13, 16X-14

Steps	Connect the high side of test-osc. to—	Tune test osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1	12SK7 I-F grid in series with 0.1 mfd.	455 kc	"A" Band Quiet Point 1,600 kc end of dial	C23, C22 2nd I-F Transformer
2	1st Det. grid in series with 0.1 mfd.			C21, C20 1st I-F Transformer
3	Ant. terminal in series with 47 mmfd.	19 mc	"C" Band 19 mc	C18 (osc.)
4		Radiated Signal 18 mc	"C" Band Resonance on Signal	C31 (ant.)

5	Radiated Signal 6.1 mc	Resonance on Signal	Inductance of L12*
6	Ant. terminal in series with 200 mmfd.	1,720 kc	"A" Band 1,720 kc C35 (osc.)
7	Radiated signal 1,400 kc	"A" Band Resonance on Signal	C33 (ant.)
8	Ant. terminal in series with 200 mmfd.	590 kc	"A" Band 590 kc C36 (osc.)
9	Repeat steps 6, 7 and 8		

\* Adjust by dressing proximity of AVC lead to coil.

Calibration Scale.—The glass tuning dial may be easily removed from the cabinet and temporarily attached to the dial backing plate for quick reference during alignment.

Replacement Parts MODEL BP-10

Insist on genuine factory-tested parts, which are readily identified and may be purchased from authorized dealers.

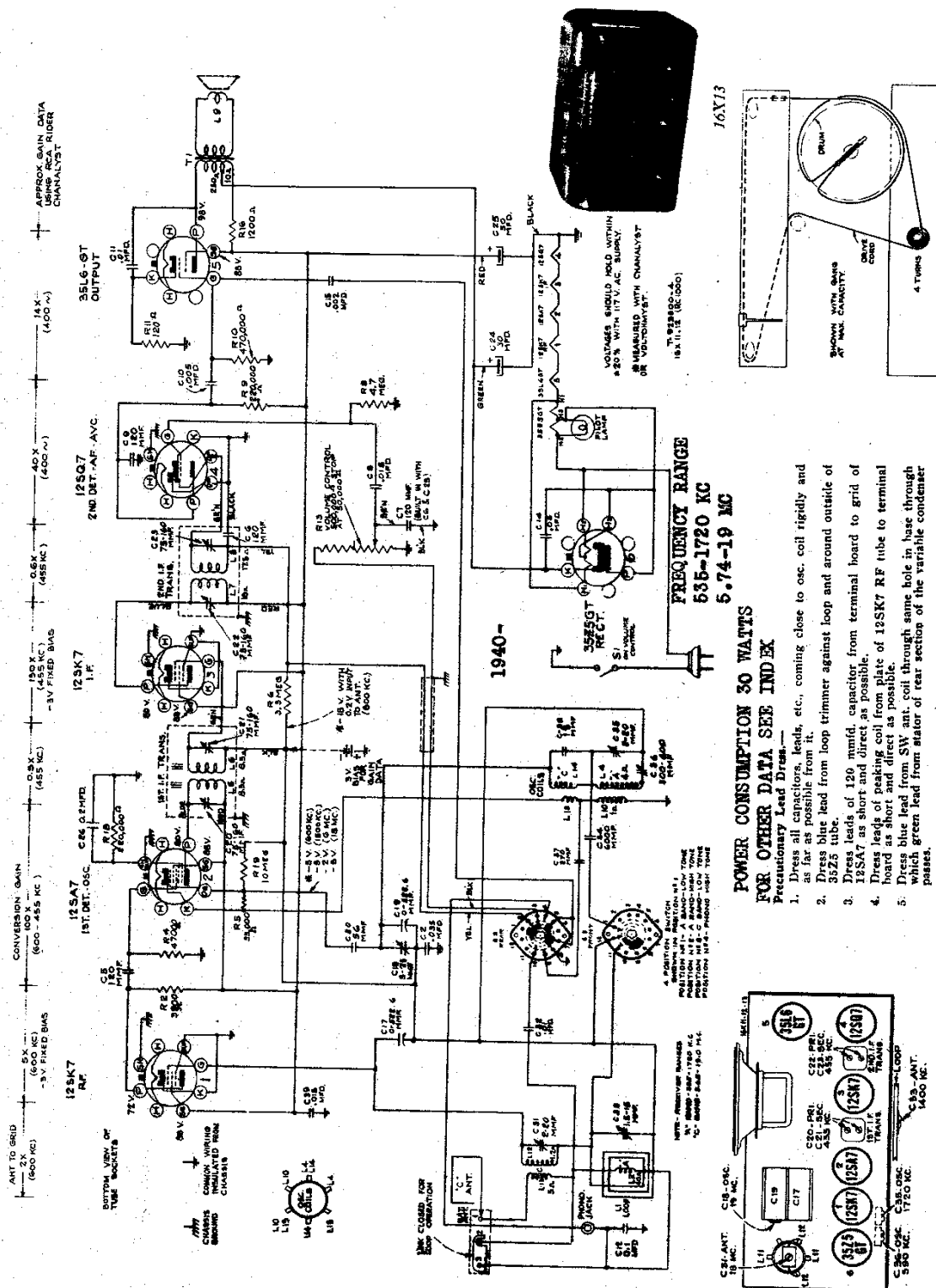
STOCK No.	DESCRIPTION	Unit List Price	STOCK No.	DESCRIPTION	Unit List Price
<b>CHASSIS ASSEMBLIES (RC-544)</b>					
38717	Capacitor—20 mmfd.	.40	30992	Resistor—10 megohm, 1/2 watt	.20
38715	Capacitor—50 mmfd.	.40	31035	Screw—No. 8-32 x 1/2 set screw for knobs	.15
38716	Capacitor—100 mmfd.	.40	36500	Socket—Tube socket	.15
12488	Capacitor—270 mmfd.	.35	36099	Socket—1T's tube socket	.20
36183	Capacitor—.001 mfd.	.25	36498	Transformer—First I.F. transformer	1.90
33594	Capacitor—.005 mfd.	.25	36499	Transformer—Second I.F. transformer	1.90
36248	Capacitor—.02 mfd.	.20	<b>SPEAKER ASSEMBLIES (84991-501)</b>		
32787	Capacitor—.05 mfd.	.20	36504	Speaker—3-inch P. M. speaker, complete with cone and voice coil, less output transformer	2.50
36497	Capacitor—Electrolytic, 10 mfd., 80 volts	.40	36505	Transformer—Output transformer	.75
36496	Coil—Oscillator coil	2.75	<b>MISCELLANEOUS ASSEMBLIES</b>		
36495	Control—Volume control	1.00	38510	Antenna—Antenna loop and cover	1.75
36606	Core—Adjustable core and stud for oscillator coil	.15	36507	Bottom—Receiver case bottom cover	1.50
36503	Holder—Battery holder complete	.40	36508	Center—Receiver case center strip	2.50
36501	Knob—Tuning knob	.75	36509	Handle—Carrying handle and bracket	.45
36602	Knob—Volume control knob	.60	36696	Initials—100 initials to each set comprising 25 groups of the average initials and one tube of cement	2.00
30158	Resistor—820 ohms, 1/2 watt	.20	36511	Lid—Receiver case top cover and panel	5.50
38714	Resistor—15,000 ohms, 1/2 watt	.20	36695	Strap—Shoulder strap	.60
30787	Resistor—47,000 ohms, 1/2 watt	.20	36506	Switch—Power switch	.40
3226	Resistor—100,000 ohms, 1/2 watt	.20			
30652	Resistor—1 megohm, 1/2 watt	.20			
31417	Resistor—3 megohm, 1/2 watt	.20			
30831	Resistor—4.7 megohm, 1/2 watt	.20			

ALL PRICES ARE SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.

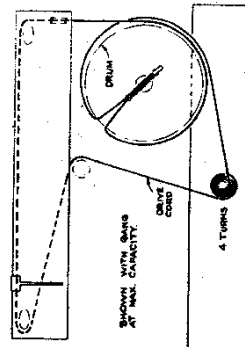
MODEL 16X-11, Ch. RC-1000

RCA MFG. CO., INC.

MODEL 16X-13,  
Ch. RC-1000A



16X13



NOTES: SHOULD HOLD WITHIN 200 MA WITH 117V AC SUPPLY OR REBUILT WITH CHANNELYST T. 92590-4 18X 11.12 (RC 1000)

**POWER CONSUMPTION 30 WATTS**  
**FOR OTHER DATA SEE INDEX**

- Precautionary Lead Dress—
1. Dress all capacitors, leads, etc., coming close to osc. coil rigidly and as far as possible from it.
  2. Dress blue lead from loop trimmer against loop and around outside of 35L6 tube.
  3. Dress leads of 120 mmd. capacitor from terminal board to grid of 12SA7, as short and direct as possible.
  4. Dress lead of peaking coil from plate of 12SK7 RF tube to terminal board short and direct as possible.
  5. Dress blue lead from SW ant. coil through same hole in base through which green lead from stator of rear section of the variable condenser passes.

