

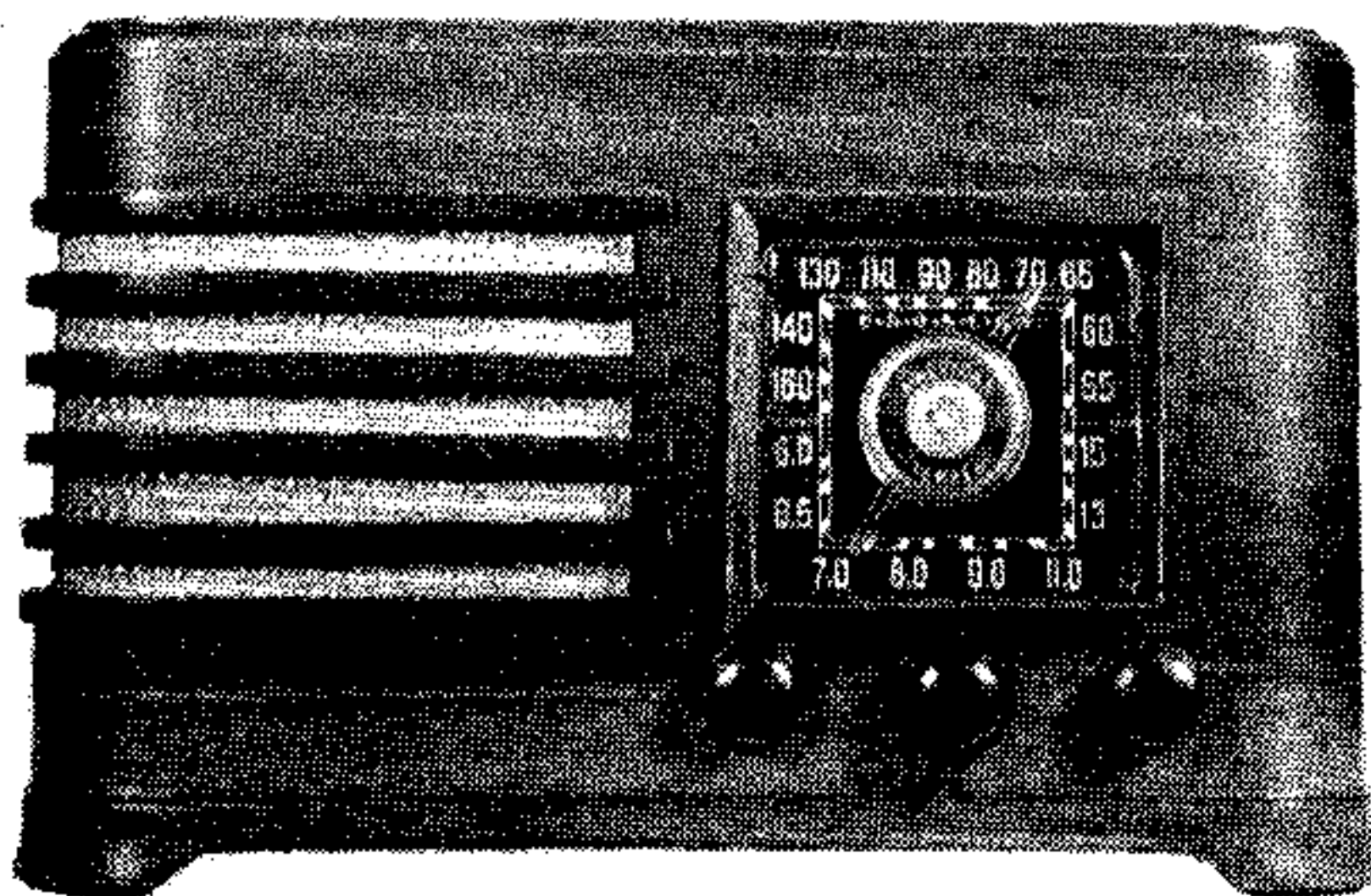
# CROSLEY

## RADIO SERVICE INFORMATION

July, 1947

MODEL: 56TN

No. 313-A



### DESCRIPTION

**TYPE:** Five-tube, two-band, superheterodyne.

**FREQUENCY RANGE:** American Broadcast Band, 540 to 1600 kc. (Selector Switch, Counter-clockwise or Left.)

Overseas Short-wave Band: 5.8 to 15 mc. (Selector Switch, Clockwise or Right.)

**INTERMEDIATE FREQUENCY:** 455 kc.

**POWER SUPPLY:** a.c.—d.c.

**VOLTAGE RATING:** 105-125 volts.

**POWER CONSUMPTION:** 35 watts nominal.

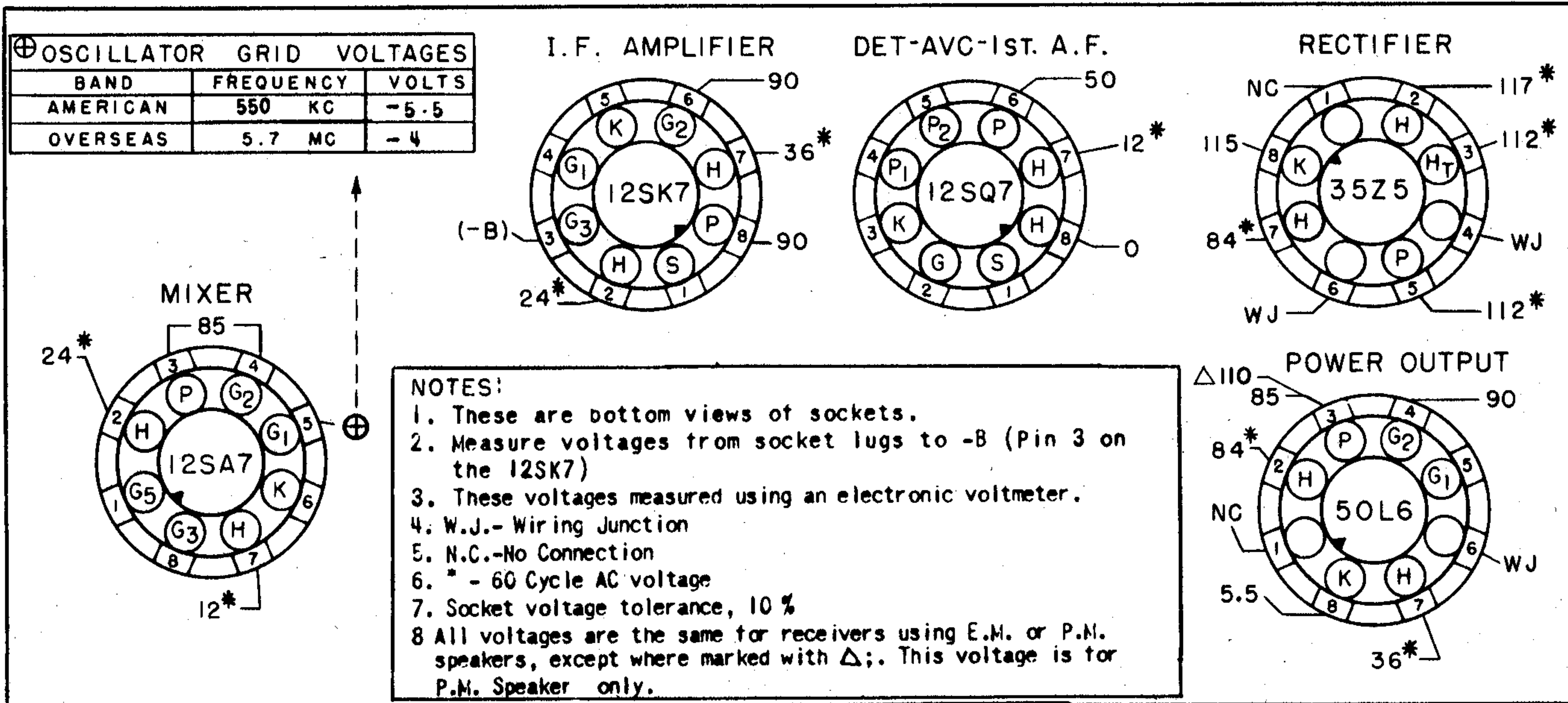
**POWER OUTPUT:** 1 watt minimum.

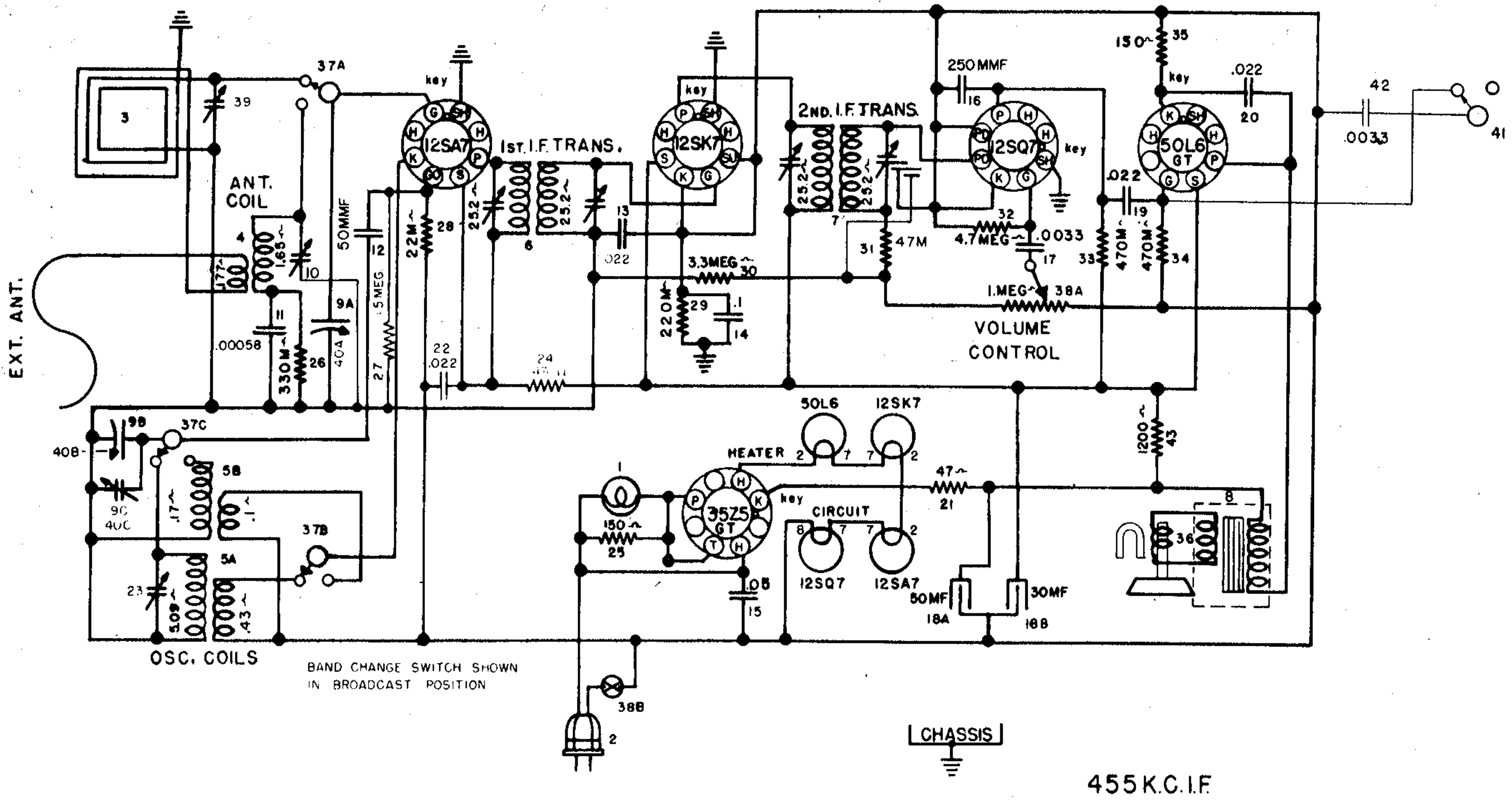
### TUBE COMPLEMENT:

Type	Function
12SA7 (or GT/G)	Mixer
12SK7 (or GT/G)	I.F. Amplifier
12SQ7 (or GT/G)	Detector, AVC, 1st A.F. Amplifier
50L6GT	A.F. Power Output
35Z5GT/G	Rectifier

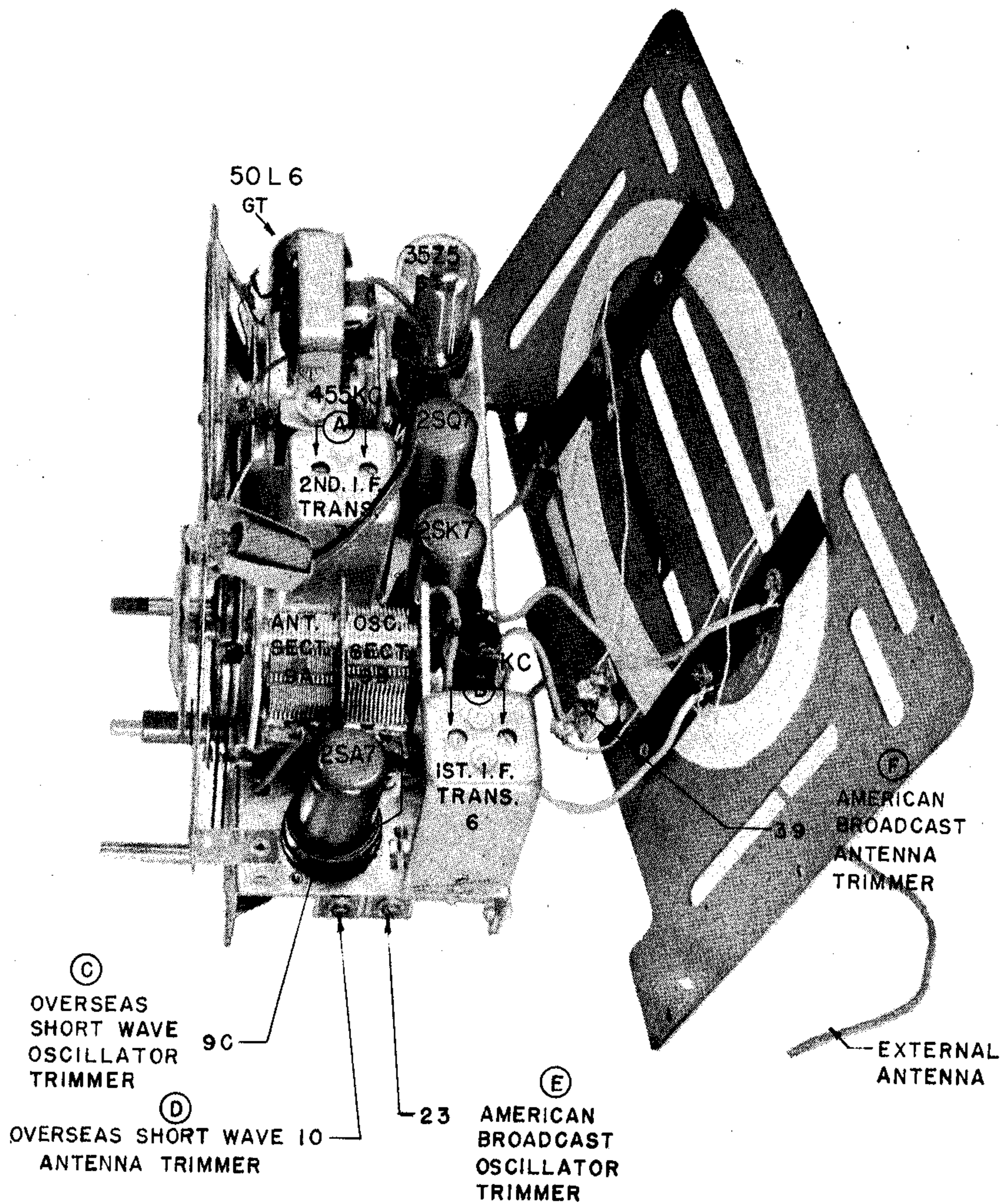
**DIAL BULB:** Type 47, 6.3 volts, .15 amp.

### SOCKET VOLTAGE CHART





**SCHEMATIC DIAGRAM—MODEL 56TN**



**CHASSIS, SIDE VIEW—MODEL 56TN**

When using direct current it may be necessary to reverse the position of the power plug in the electric outlet for correct polarity.

Reversing the position of the power plug when alternating current is used may reduce power hum. *Under no circumstances should a ground be connected to this receiver.*

### ALIGNMENT PROCEDURE

1. Turn the tuning condenser to the completely closed position against the stop and set the dial pointer to the reference line at the end of the dial scale.
2. Connect the output meter across the speaker voice coil.
3. The r.f. signal input from the signal generator should be connected to the external antenna lead. Connect the signal generator ground through a 0.1 mfd. condenser to —B (pin 3 on 12SK7 tube socket).
4. Turn the volume control on full and adjust the signal generator output to produce approximately mid-scale deflection of the output meter, but maintain signal generator output as low as possible to prevent AVC action in the receiver.

### ALIGNMENT CHART

Alignment adjustment locations are shown on page 2, Chassis, Side View—Model 56TN

Alignment Sequence	Signal Generator Output			Position of		Adjust for Maximum Output
	Frequency in kc.	In Series with	To	Band Switch	Tuning Dial	
1	455	200 mmf.	Ant.	Left	1,620	A & B
2	15,300	400 ohms	Ant.	Right	15,300	C
3	15,000	400 ohms	Ant.	Right	15,000	D
4	1,400	200 mmf.	Ant.	Left	1,400	E & F

**NOTE:** When aligning the short-wave oscillator trimmer (C), be sure that the circuit is aligned at the correct frequency and not at the image frequency which is 910 kilocycles lower as indicated by the receiver dial. To check: Tune in the generator frequency, then increase the generator output and tune in the image frequency. The image frequency should be weaker than the fundamental and audible 910 kilocycles lower on the receiver dial. If the image cannot be tuned in, the oscillator trimmer is adjusted to the wrong peak; i.e., the oscillator trimmer may be adjusted to the image or one of the harmonics instead of the fundamental frequency. The correct peak is the second one heard as the trimmer adjustment screw is opened from the completely closed position.

# REPLACEMENT PARTS LIST—MODEL 56TN

Figures in first column correspond to figures in Schematic Diagram

Item No.	Part No.	Description	Item No.	Part No.	Description
1	W-48858	Bulb (Dial Light), Type 47, 6.3v., .15 amp.	29	39373-80	Resistor, 220,000 ohm, 1/2 w.
2	C-132300-1	Cable and Plug (power)	30	39373-100	Resistor, 3.3 megohm, 1/2 w.
3	AC-134288	Antenna Loop and Back Assembly	31	39373-67	Resistor, 47,000 ohm, 1/2 w.
4	AW-134994	Coil (H.F. Antenna)	32	39373-102	Resistor, 4.7 megohm, 1/2 w.
5A	AW-134993	Coil (B.C. Oscillator) { Two	33	39373-87	Resistor, 470,000 Ohm, 1/2 w.
5B		Coil (H.F. Oscillator) } Section	34	39373-87	Resistor, 470,000 Ohm, 1/2 w.
6	AW-134065	Transformer (1st I.F.)	35	39373-16	Resistor, 150 Ohm, 1/2 w.
7	AW-134158	Transformer (2nd I.F.)	36	AD-138073	Speaker & Transformer Assy.
8	B-138069	Transformer, Output	37A	B-137026	Switch (Band Change) { Three Switch (Band Change) } Section Switch (Band Change) {
9A	B-134995	Condenser (Variable) { Two	37B		
9B		Condenser (Variable) } Section	37C		
9C	Part of Item#9B	Condenser, Trimmer (H.F. Oscillator)	38A	C-46846-6	Control, Volume (1 Megohm) { Assy.
10	AB-135088	Condenser Trimmer (H.F. Antenna)	38B		Switch (Power)
11	GC-210685-143	Condenser, 580 mmf., 300 v., Mica	*	39368-8	Control, Volume
12	B-226638-53	Condenser, 50 mmf., 500 v., Mica		39369-1	Switch, Power
13	39001-80	Condenser, .02 mfd., 600 v., Paper	39	Part of Item#3	B. C. Ant. Trimmer
14	39001-19	Condenser, .1 mfd., 600 v., Paper	41	W-134939	Switch (Tone)
15	39001-17	Condenser, .05 mfd., 600 v., Paper	42	39001-76	Condenser, .003 mfd., 600 v., Paper
16	39001-73	Condenser, 250mmf., 600 v., Paper	43	39373-144	Resistor, 1,200 ohm, 1 w.
17	39001-76	Condenser, .003 mfd., 600 v., Paper		G-39204	Socket (Tube)
18A	B-138072	Condenser, 50 mfd., 140 v. } Two Condenser, 30 mfd., 120 v. } Section Elect. Filter		39017-4	Socket Assembly (Dial Light)
18B					C-135175
19	39001-80	Condenser, .02 mfd., 600 v., Paper		B-134570	Pointer (Dial)
20	39001-80	Condenser, .02 mfd., 600 v., Paper		W-134667	Clip (Dial Pointer)
21	W-137367	Resistor, 47 ohm, 1 w.		W-134917	Shaft (Drive)
22	39001-80	Condenser, .02 mfd., 600 v., Paper		W-51071	Ring (Retaining)
23	Part of Item#10	Condenser, Trimmer (B.C. Oscillator)		W-134916	Washer (Spring)
24	39373-26	Resistor, 470 Ohm, 1/2 w.		W-51752	Spring (Dial Cord)
25	39373-47	Resistor, 4700 Ohm, 1/2 w.		AB-134697	Toggle Arm and Link Assembly
26	39373-84	Resistor, 330,000 Ohm, 1/2 w.		W-49829	Spring (Lock)
27	39373-109	Resistor, 15 Megohm, 1/2 w.		W-136630	Stud (Trimount)
28	39373-60	Resistor, 22,000 Ohm, 1/2 w.		D-137113	Cabinet
				B-134610	Lens (Dial)
				W-134882	Knob (Small)
				W-134742	Knob (Large)

\* These parts will replace the original equipment parts