

# Philco Radio & Television Corp.

Model: 39-25	Chassis:	Year: Pre August 1939
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Power:	Circuit:	IF:
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Tubes:

Bands:

## Resources

[Riders Volume 11 - CHANGES 11-2](#)

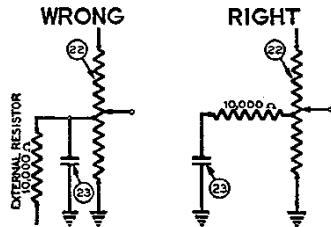
[Riders Volume 10 - PHILCO 10-9](#)

[Riders Volume 10 - PHILCO 10-10](#)

[Riders Volume 10 - PHILCO 10-11](#)

**Philco 39-25**

A few of the early production Model 39-25 Philco receivers had the bass-compensating condenser in the volume-control circuit improperly connected.



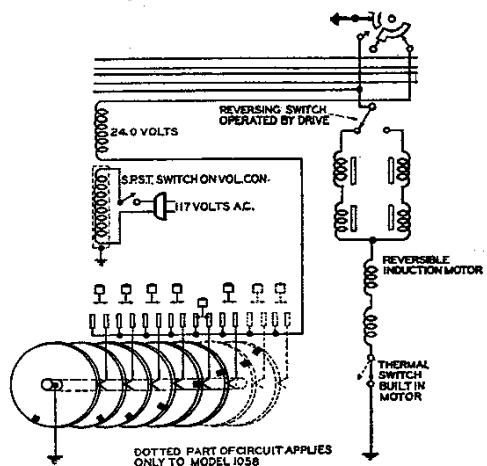
If a Philco 39-25 lacks high notes at low settings of the volume control, check to see how the bass-compensating condenser is connected. These partial schematics tell the story.

nected. The indication of such incorrect connection is a lack of high notes at low settings of the volume control. Above is shown the incorrect and the correct connections. The schematic of this receiver shown on page 10-9 of *Rider's Volume X* shows the correct connections.

**Majestic 11056, 11057, 11058**

Models 11056 and 11058 are found on pages 9-8 to 9-10 of *Rider's Volume IX*. The data given there also apply to Model 11057. A new electric tuning system has been incorporated in later runs of all these receivers, and is illustrated in Fig. 1. The procedure for indexing the tuning system for desired stations is as follows:

- (1) Set receiver to Standard Broadcast band.
- (2) Place "Manual-Electric" lever in "Manual" position, which is extreme counter-clockwise. Be sure the tone control is in the "Normal" position as shown by the indicator.



A new electric tuning system has been incorporated in later runs of Majestic models 11056, 11057, and 11058, the schematic being shown at the left. Note that the dotted portion of the drawing applies only to the last named model number.

(3) Pull out Indexing Rod located at the center bottom half of the escutcheon. This rod has numbers on it which correspond to the push buttons (counting from left to right).

(4) Set Indexing Rod so that the number on the rod corresponding to the push button you wish to index is in line with the escutcheon plate.

(5) Turn tuning knob until the pointer has covered the entire dial. This is essential to engage the tuning disc.

(6) Tune in the desired station accurately, using the tuning eye.

(7) Push Indexing Rod all the way in, and that particular station will always be tuned in automatically when that particular button is depressed while the "Manual-Electric" lever is in the "Electric" position.

To index more than one station, go through steps (3) to (6) for each station desired and when finished, push the Indexing Rod back as far as it will go.

**Caution:** When using electric tuning, do not depress more than one button at a time. Depressing two buttons will cause the motor to run continuously or until the automatic thermal switch operates to prevent the motor from burning out. If this happens it may take fifteen minutes for the motor to become cool enough for the electric tuning to become operative again.

**Philco 620**

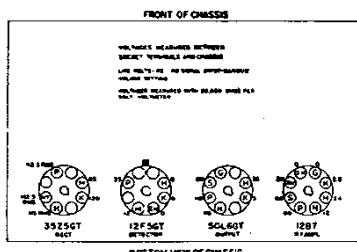
Certain oscillator trimmers are incorrectly numbered on pages 6-26 and 6-27 of *Rider's Volume VI* (early Model 620 Philco). In the parts list on page 6-26, the reference numbers should be changed as follows: Change 13 to 16; change 14 to 17; change 16 to 13; change 17 to 14. The same changes should be made on page 6-27 in Fig. 2 and in the alignment instructions located below this figure. These changes must be made so that the

reference numbers will agree with those shown on the schematic which appears on page 6-25. Do NOT alter the numbers on the schematic.

These errors in numbering also appear in the parts list for the late Model 620 Philco. Therefore the reference numbers on page 7-90 of *Rider's Volume VII* must be changed as follows: Change 13 to 16; change 14 to 17; change 16 to 13; change 17 to 14.

**G.E. H-400**

The final service bulletin on this receiver was not available at the time *Rider's Volume X* went to press and the preliminary schematic, chassis layout, and alignment notes were run on page 10-45. The final service notes show no changes in any of these data. Herewith will be found the socket layout showing the voltages. Make a



Socket layout and voltages for the General Electric model H-400.

note on the schematic that the power consumption of this receiver is 25 watts and that the impedance at 400 cycles of the voice coil is 3.5 ohms.

**Emerson CF-255**

Two different type speakers have been used during production of this receiver. In the specifications listed on page 10-23 of *Rider's Volume X*, mention is made of a 4-inch magnetic speaker, but in some chassis a permanent magnet dynamic speaker has been used. In those chassis which employ the latter, the condenser, C-10, in the output circuit, has been changed to 0.024 mf. When the magnetic speaker is used, C-10 is 0.005 mf.

On receivers having serial numbers above 2,637,480, the detector coil, T2, has been changed. The part number is now 6FT-462A.

## **PHILCO RADIO & TELEV. CORP.**

MODEL 39-25, Code 121  
Schematic

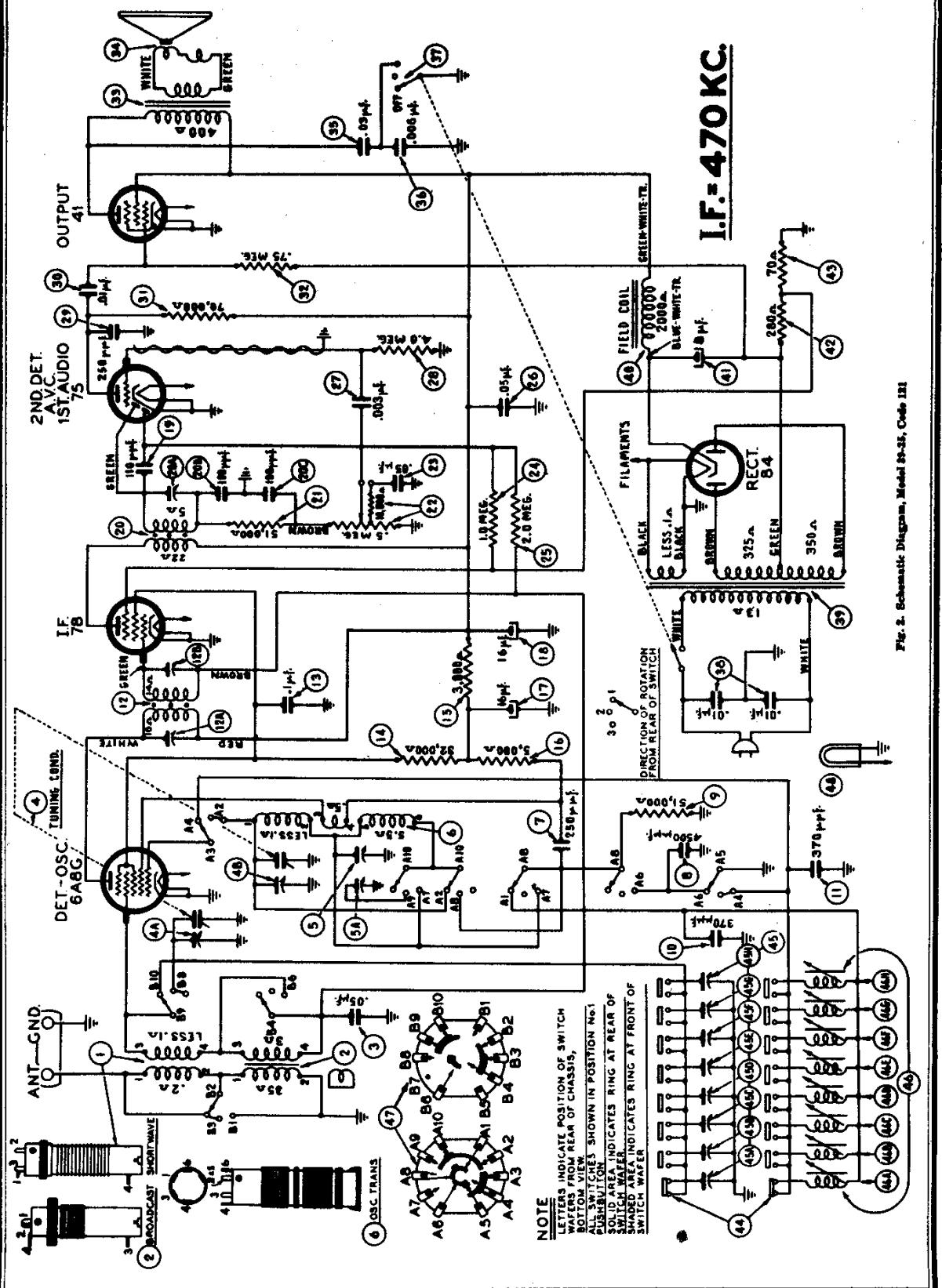


Fig. 2. Schematic Diagram, Model I 38-35. Ceph. 121

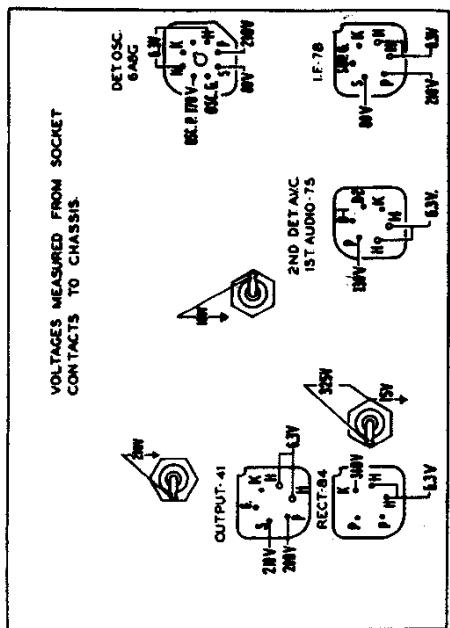
**NOTE** LETTERS INDICATE POSITION OF SWITCHES FROM REAR OF CHASSIS, BOTTOM VIEW.  
ALL SWITCHES SHOWN IN POSITION NO. 1  
SWITCH INDICATES RING AT REAR OF  
SWITCH, AND AWA INDICATES RING AT FRONT OF  
SWITCH.

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PHILCO RADIO & TELEV. CORP.

MODEL 39-25  
Code 121  
Socket, Trimmers  
Voltage, Parts



**Fig. 1. Socket Voltages—Underside of Chassis**  
The voltages indicated by arrows were measured with a Philco 027 Circuit Tester, which contains a sensitive voltmeter. Volume Control at minimum—Tuning Condenser set for no signal—voltage 115 A.C.

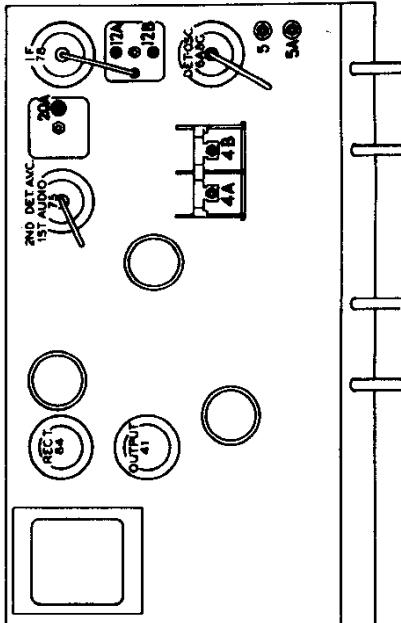


Fig. 4. Locations of Compensators

## **REPLACEMENT PARTS—MODEL 39-25, CODE 121**

Schem. No.	Description	Part No.	Schem. No.	Description	Part No.
1	Antenna Transformer (short wave)	32-3027	42	Resistor (280 ohms, wire wound)	33-128431
2	Antenna Transformer (broadcast)	32-3026	43	Resistor (70 ohms, $\frac{1}{2}$ watt)	33-070339
3	Tubular Condenser (.05 mf.)	30-4519	44	Push-Button Switch	42-1446
4	Tuning Condenser Assembly	31-2267	45	Compensator Strip Assembly	31-6256
5	Dual Padder Unit	31-6255	45A	Compensator, No. 1, 540-1030 K. C.	31-6274
6	Oscillator Transformer	32-3028	45B	Compensator, No. 2, 540-1030 K. C.	31-6274
7	Condenser (250 mmf., mica)	30-1032	45C	Compensator, No. 3, 670-1160 K. C.	31-6276
8	Condenser (4500 mmf., mica)	30-1109	45D	Compensator, No. 4, 670-1160 K. C.	31-6276
9	Resistor (5,000 ohms, $\frac{1}{2}$ watt)	33-351339	45E	Compensator, No. 5, 900-1470 K. C.	31-6278
10	Condenser (370 mmf., silver plated mica)	30-1110	45F	Compensator, No. 6, 900-1470 K. C.	31-6278
11	Condenser (370 mmf., silver plated mica)	30-1110	45G	Compensator, No. 7, 1170-1600 K. C.	31-6280
12	1st I. F. Transformer Assembly	32-3018	45H	Compensator, No. 8, 1170-1600 K. C.	31-6280
13	Condenser (.1 mf., tubular)	30-4455	46	Electric Tuning Coil Assembly (complete)	32-3031
14	Resistor (32,000 ohms, $\frac{1}{2}$ watt)	33-32339	46A	Osc. Coil, No. 1, 540-1030 K. C.	32-3042
15	Resistor (3000 ohms, $\frac{1}{2}$ watt)	33-230339	46B	Osc. Coil, No. 2, 540-1030 K. C.	32-3042
16	Resistor (5000 ohms, $\frac{1}{2}$ watt)	33-250339	46C	Osc. Coil, No. 3, 670-1160 K. C.	32-3042
17	Electrolytic Condenser (16 mf., 250 V.)	30-2331	46D	Osc. Coil, No. 4, 670-1160 K. C.	32-3042
18	Electrolytic Condenser (16 mf., 250 V.)	30-2331	46E	Osc. Coil, No. 5, 900-1470 K. C.	32-3041
19	Condenser (110 mmf., mica)	30-1031	46F	Osc. Coil, No. 6, 900-1470 K. C.	32-3041
20	2nd I. F. Transformer Assembly	32-3030	46G	Osc. Coil, No. 7, 1170-1600 K. C.	32-3041
21	Resistor (51,000 ohms, $\frac{1}{2}$ watt)	33-351339	46H	Osc. Coil, No. 8, 1170-1600 K. C.	32-3041
22	Volume Control (500,000 ohms)	33-5289	47	Range Switch	42-1445
23	Condenser (.05 mf., tubular)	30-4444	48	Pilot Lamp	34-2210
24	Resistor (1 meg., $\frac{1}{2}$ watt)	33-510339	Bezel Assembly	40-6365	
25	Resistor (2 mega., $\frac{1}{2}$ watt)	33-520339	Bezel Gasket	27-9175	
26	Condenser (.05 mf., tubular)	30-4518	Bezel Screw	W-1834	
27	Condenser (.003 mf., tubular)	30-4469	Cable (speaker)	41-3443	
28	Resistor (4.0 mega., $\frac{1}{2}$ watt)	33-540339	Cable (power)	L-2778	
29	Condenser (250 mmf., mica)	30-1032	Dial Scale	27-5403	
30	Condenser (.01 mf., tubular)	30-4572	Dial Spring	28-8908	
31	Resistor (70,000 ohms, $\frac{1}{2}$ watt)	33-370339	Dial Pointer	28-5941	
32	Resistor (750,000 ohms, $\frac{1}{2}$ watt)	33-475339	Dial Drive Cord Assembly	31-2269	
33	Output Transformer	32-7978	Dial Drive Spring	31-2269	
34	Voice Coil and Cone Assembly (for "I" Speaker, part No. 36-1439). (for "XP" Speaker, part No. 36-1437)	36-4087	Dial Tuning Shaft Assembly	31-2260	
35	Condenser (.03 mf., tubular)	36-4088	Dial Tuning Drum	31-2281	
36	Condenser (.006 mf., tubular)	30-4449	Knob	27-4332	
37	Tone Control and On-Off Switch	30-4445	Socket (5 Prong)	27-6035	
38	Condenser (.01 mf.-.01 mf., bakelite)	42-1443	Socket (6 Prong)	27-6036	
39	Power Transformer	3903-DG	Socket (7 Prong)	27-6099	
40*	Field Coil for Speaker, part No. 36-1439	32-7976	Pilot Lamp Socket Assembly	38-9607	
	* Field Coil for Speaker, part No. 36-1437		Pushbutton	27-4759	
	Electrolytic Condenser (8 mf., 400 V.)	30-2330	Speaker (T Cabinet)	36-1439	
			Speaker (XP Cabinet)	36-1437	
			* Replace Speaker.		