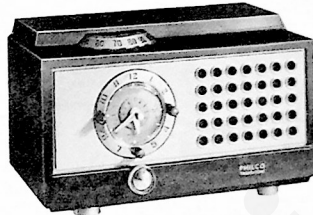


# PHILCO RADIO-CLOCK MODELS 52-543, 52-545, 52-547, AND 52-550



MODELS 52-543\* AND 52-545



MODEL 52-547

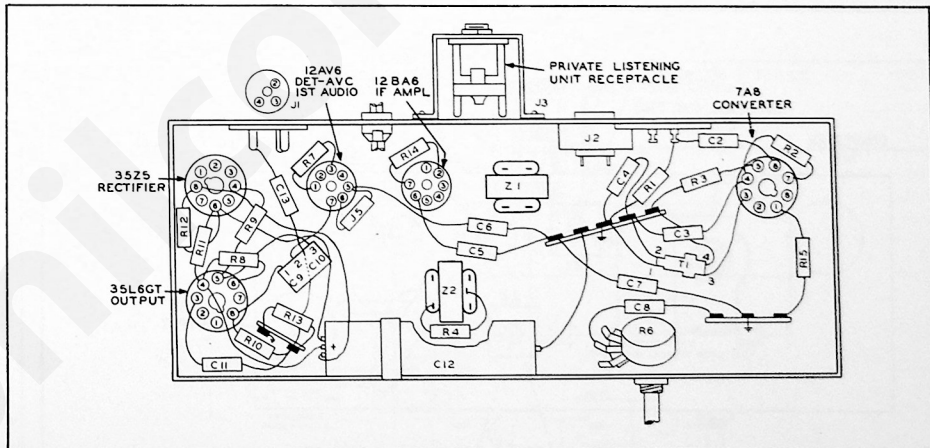


MODEL 52-550

## SPECIFICATIONS

FREQUENCY RANGE	540—1600 kc.	AERIAL	High-impedance loop; connector for external aerial
AUDIO OUTPUT	1 watt	INTERMEDIATE FREQUENCY	455 kc.
OPERATING VOLTAGE	117 volts, a.c.	PHILCO TUBES (5)	7A8, 12BA6, 12AV6, 35L6GT, 35Z5
POWER CONSUMPTION	30 watts		

\*The clock of Model 52-543 has TIME SET control only.



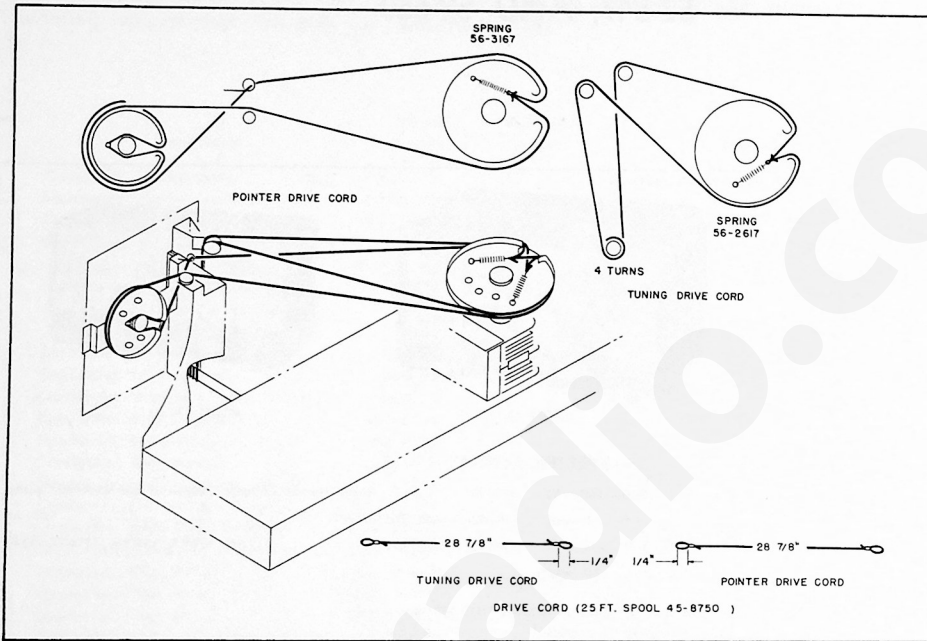
TP2-1326

Figure 1. Model 52-550, Base View, Showing Symbolized Chassis

**PRELIMINARY INFORMATION**

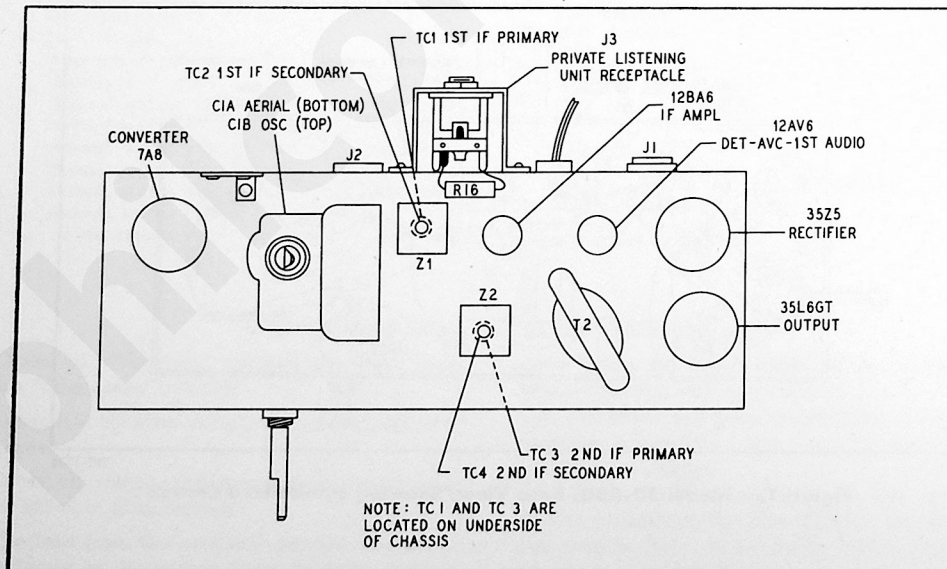
Models 52-543, 52-545, 52-547, and 52-550 are electrically similar to Model 52-544, but they are housed in different style cabinets, and incorporate certain circuit refinements over Model 52-544.

The following diagrams and the Service Information and Parts List given on page 4 of this Service Manual are for Models 52-543, 52-545, 52-547, and 52-550 only. For Alignment Procedure and the basic Schematic Diagram and Parts List for all models, refer to PR-1950.



**Figure 2. Model 52-550, Drive-Cord Installation Details**

TP2-1325



**Figure 3. Model 52-550, Top View, Showing Trimmer Locations**

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**SERVICE INFORMATION**

**MODELS 52-543, 52-545, 52-547,  
AND 52-550**

Dual condenser, C9 and C10, Part No. 30-1239-4, used for audio coupling (.007  $\mu$ f.) and grid by-pass (220  $\mu$ f.) respectively. Output tube changed from 50L6GT to a 35L6GT.

Isolating condenser, C7, Part No. 61-0113, from 7A8 converter-tube cathode to ground, was changed from a .2  $\mu$ f. condenser to a .1  $\mu$ f. condenser.

**MODELS 52-543, 52-545, AND 52-547**

Pilot light and bracket are mounted on rear of clock cover.

**MODEL 52-543**

Clock is nonautomatic; has TIME SET control only.

Appliance receptacle on rear of chassis is connected directly to a-c line. Appliance capacity is 1100 watts. OFF-ON switch is part of VOLUME control, R6.

**MODEL 52-547**

Loop assembly, LA1, is Part No. 32-4052-64.

**MODEL 52-550**

Included with this model is Philco Private Listening unit receptacle, J3, Part No. 42-1975-2. A shunt resistor, R16, has been provided from J3 to ground. This shunt resistor reduces volume to level required for Private Listening. R16 is a 3.3-ohm resistor, Part No. 66-9334540.

Loop assembly, LA1, is Part No. 32-4052-64.

Speaker, p.m., LS1, is Part No. 36-1627-11.

**REPLACEMENT PARTS LIST**

**FOR MODELS 52-543, 52-545, 52-547, AND 52-550**

For all parts not listed below, refer to page 10.

**MISCELLANEOUS**

Description	Service Part No.	Description	Service Part No.
<b>Cabinet</b>			
Models 52-543M and 52-545M	10745-9	TIME SET	54-4736-11
Model 52-545I	10745-10	VOLUME	54-4773
Model 52-547L	10908-1	<b>Models 52-550M and 52-550L</b>	
Model 52-547M	10908	AUTO SET	54-4736-10
Model 52-550L	10907-1	AUTO-OFF-ON	54-4736-9
Model 52-550M	10907	DELAYED OFF	54-4736-9
<b>Back, cabinet</b>			
Models 52-543M, 52-545M, and 52-545I	54-8391	TUNING	54-4718-6
Models 52-547L and 52-547M	54-8634	TIME SET	54-4736-11
Models 52-550L and 52-550M	54-8637	VOLUME	54-4718-6
<b>Baffle-and-cloth assembly</b>			
Models 52-543M and 52-545M	40-7730	<b>Bracket-and-pulley assembly</b>	
Model 52-545I	40-7730-1	Models 52-550M and 52-550L	76-7580
<b>Knobs</b>			
<b>Model 52-543M</b>			
DIAL SCALE	54-5055-5	<b>Clock cover-and-clip assembly</b>	
TIME SET	56-9656	Models 52-543M, 52-545M and 52-545I	76-7547
VOLUME-OFF-ON	27-4815-9	Models 52-547M and 52-547L	76-7638
<b>Models 52-545M and 52-545I</b>			
AUTO SET	54-4736-10	Models 52-550M and 52-550L	76-7625
AUTO-OFF-ON	54-4736-9	<b>Clock and plug assembly</b>	
DELAYED OFF	54-4736-9	Model 52-543M	76-7559
DIAL SCALE	54-5055-5	Models 52-545M, 52-545I, 52-547M, and 52-547L	76-7544
TIME SET	54-4736-11	Models 52-550M and 52-550L	76-7596
VOLUME	27-4815-9	<b>Dial-and-backplate assembly</b>	
<b>Models 52-547M and 52-547L</b>			
AUTO SET	54-4736-10	Models 52-550M and 52-550L	76-7579
AUTO-OFF-ON	54-4736-9	<b>Socket, clock</b>	
DELAYED OFF	54-4736-9	Models 52-543M, 52-545M, 52-545I, 52-547M, and 52-547L	27-6273
DIAL SCALE	54-5055-5	Models 52-550M and 52-550L	27-6273
<b>Plug, clock</b>			
			54-4878-2
<b>Tuning shaft</b>			
			56-9659
<b>Shaft assembly, pointer</b>			
			76-7581

**IMPORTANT LEAD DRESS INFORMATION — ALL MODELS**

1. All wiring and components must be dressed away from R12, the 220-ohm filter resistor.
2. The a-c leads wired to the clock socket must be dressed up and away from pins 1 and 6 of the 12AV6 socket. This is done to reduce hum pickup.
3. The oscillator coil must be dressed up from the chassis. This is done to improve stage tracking.

4. The rear loop lead must be wired to the antenna section of the tuning gang, and the front lead must be wired to the a-v-c panel lug. These connections provide the proper loop polarity.
5. The green lead from the second i-f transformer secondary to pin 6 of the 12AV6 must be dressed down to the chassis. This is done to prevent regeneration.