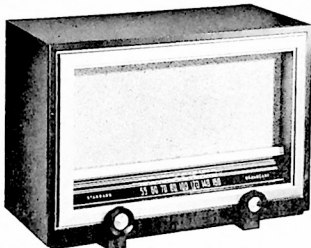
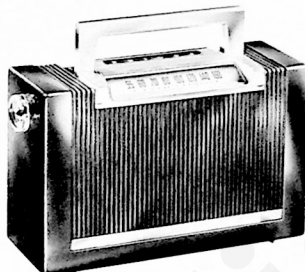


PHILCO RADIO MODELS 52-549, 52-642 AND 52-939



MODEL 52-549



MODEL 52-642



MODEL 52-939

SPECIFICATIONS

MODEL 52-549

CABINET	Wood	POWER CONSUMPTION	30 watts
CIRCUIT	4-tube superheterodyne (plus rectifier)	AERIAL	High-impedance loop; connector for external aerial
FREQUENCY RANGE	540-1630 kc.	INTERMEDIATE FREQUENCY	455 kc.
AUDIO OUTPUT	1.2 watts	PHILCO TUBES (4 plus rectifier)	7A8, 12BA6, 12AV6, 35L6GT, 35Z5GT
OPERATING VOLTAGE	105-125 volts, a.c. or d.c.		

MODEL 52-642

CABINET	Plastic, portable	POWER CONSUMPTION	11 watts
CIRCUIT	4-tube superheterodyne (plus selenium rectifier)	A-c or d-c operation	9.5 ma. from 67.5-volt "B" battery; 250 ma. from 1.5-volt "A" battery
FREQUENCY RANGE	540-1620 kc.	AERIAL	Magnecor high-impedance loop; provision for connecting external aerial
AUDIO OUTPUT	150 milliwatts	INTERMEDIATE FREQUENCY	455 kc.
A-c or d-c operation	75 milliwatts	PHILCO TUBES (4)	1R5, 1U4, 1U5, and 3V4
Battery operation		BATTERY TYPE	P-67 "B" battery TYPE D "A" battery
OPERATING VOLTAGES	117 volts, a.c. or d.c.; 1.5-volt "A" and 67.5-volt "B" battery		

MODEL 52-939

CABINET	Molded plastic	POWER CONSUMPTION	30 watts
CIRCUIT	5-tube superheterodyne (plus rectifier)	AERIAL	High-impedance loop; provision for connecting external aerial
FREQUENCY RANGE	540-1620 kc.	INTERMEDIATE FREQUENCY	455 kc.
AUDIO OUTPUT	1 watt	PHILCO TUBES (5 plus rectifier)	7B7(2), 7AB, 14B6, 35L6GT, 35Z5GT
OPERATING VOLTAGE	105-120 volts, a.c. or d.c.		

ALIGNMENT PROCEDURE

The alignment procedures for the receivers covered by this manual are given in the service manuals listed below.

Model 52-549	same as	Model 52-541, page 2
Model 52-642	same as	Model 52-640, page 20
Model 52-939	same as	Model 52-940, page 32

SCHEMATIC DIAGRAMS

The schematic diagrams for the models in this manual are given in the service manuals listed above. Models 52-549 and 52-642 differ from the basic circuit only as described below.

MODEL 52-549 CIRCUIT

The circuit for this set differs from that of Model 52-541 only in the audio section. See figure 1 and page 3. These changes are as follows, and are in

addition to component part number changes given in the parts list in this service manual.

A condenser, C12, 220 $\mu\text{f.}$, Part No. 62-122001011, is connected between the high side and the center arm of the volume control, R8. Condenser C12 is used for high-frequency compensation.

The tone-compensation condenser, C8, was changed from .05 $\mu\text{f.}$ to .03 $\mu\text{f.}$, Part No. 30-4517.

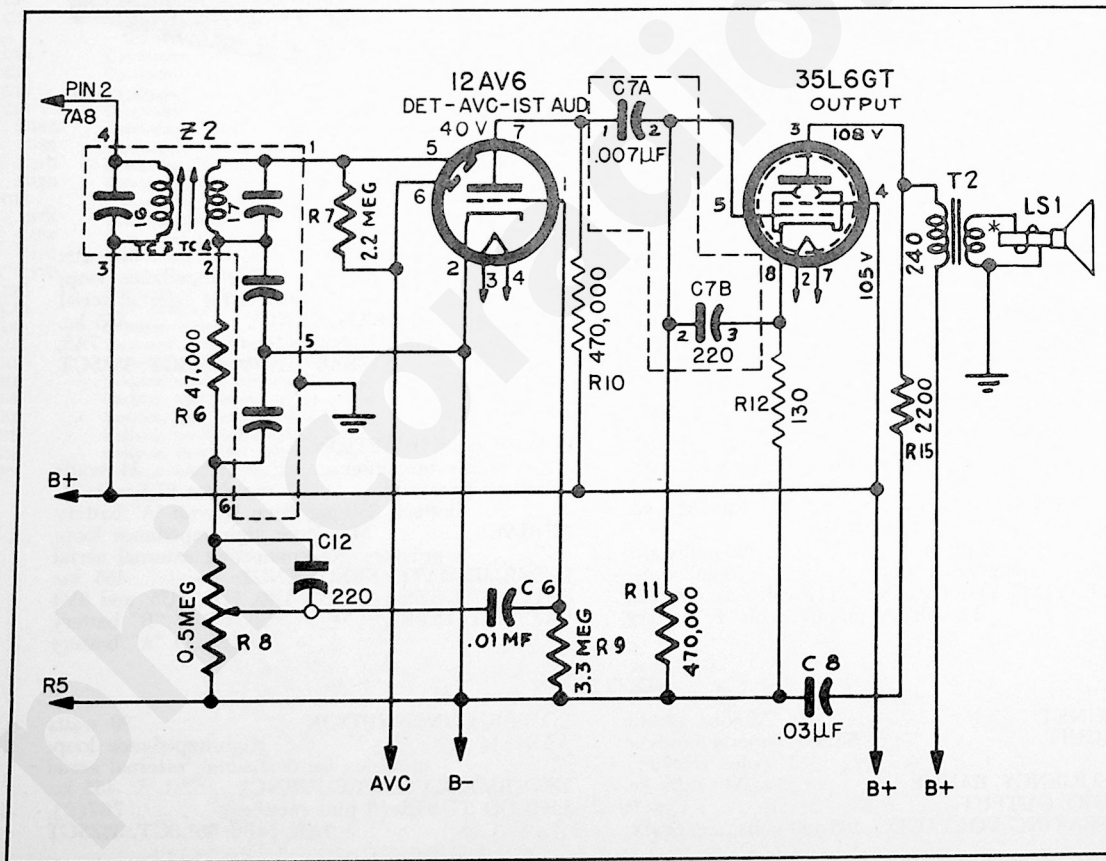


Figure 1. Model 52-549, Second Detector and Audio Amplifier Circuits

TP2-1817

MODEL 52-642 CIRCUIT

The circuit for this set differs from that of Model 52-640 in that it includes a Private Listening Unit receptacle. See figure 2 and page 21. The Private

Listening Unit receptacle, J3, Part No. 42-1975-2, is wired into the circuit as shown in figure 2. A shunt resistor, R19, Part No. 66-0108340, reduces volume to the correct level for Private Listening. R19, a 10-ohm resistor, is wired from J3 to chassis ground.

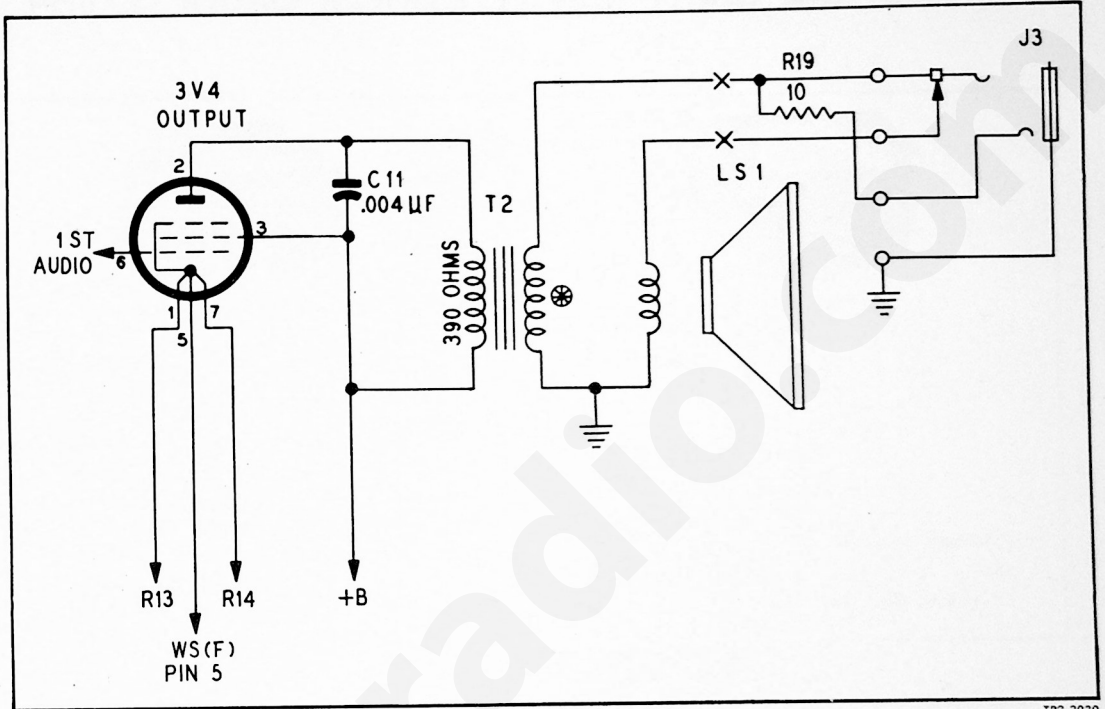


Figure 2. Model 52-642, Output Circuit Showing the Connections for a Private Listening Unit

REPLACEMENT PARTS LIST

Reference Symbol	Description	Service Part No.
IL	Pilot-lamp assembly	76-1179-7
LA1	Loop aerial	32-4052-65
LS1	Speaker, 6-inch, p.m.	36-1641-1
T2	Transformer, output	32-8384-2

MISCELLANEOUS

Description	Service Part No.
MODEL 52-549	
Cabinet, mahogany	10910
Knob (2)	54-4774-9
Scale	54-5141
Cabinet, light (blond)	10910-1
Knob (2)	54-4774-10
Scale	54-5141-1
Cabinet, ebony	10910-2
Knob (2)	54-4774-18
Scale	54-5141
Back, cabinet (all models)	54-8640
Pointer (all models)	56-8774-2

MISCELLANEOUS (Cont.)

Description	Service Part No.
MODEL 52-642	
Cabinet	
Teal green	10799-13
Maroon	10799-14
Swedish red	10799-15
Caribbean blue	10799-16
Nile green	10799-17
Arabian sand	10799-18
Ebony	10799-19
Knob (2) (all models)	54-4773
Pointer (all models)	56-7973-1
Scale (all models)	54-5087

MODEL 52-939

Cabinet, ebony	76-7541
Back	318-3289
Knob (2)	54-4718-36
Pointer assembly	76-5341-4
Scale	54-5071-2

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