

Philco Radio & Television Corp.

	Model: 39-80	Chassis:	Year: Pre August 1939
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Riders Volume 10 - PHILCO 10-26			
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MODELS 39-70, Code 121, 39-75, Code 121, 122 Alignment, Parts List MODEL 39-80, Code 121 Alignment

PHILCO RADIO & TELEV. CORP.

REPLACEMENT PARTS

Models 39-70, Code 121, and 39-75, Codes 121-122

Schem. No.	Description	Part No.
1	Condenser (5 mmf. mica) (Part of No. 2)	30-1097
2	Antenna Transformer (Includes No. 1)	32-3080
3	Condenser (.05 mf. tubular)	30-4519
4	Tuning Condenser Assembly, 39-70	31-2300
5	Tuning Condenser Assembly, 39-75	31-2365
6	Condenser (110 mmf. mica)	30-1031
7	Resistor (190,000 ohms, 1/2 watt)	33-4191359
8	Condenser (25 mmf. mica), 39-70	30-1067
9	Condenser (35 mmf. silver plated mica), 39-75	30-1111
10	Oscillator Transformer, 39-70	32-3019
11	Oscillator Transformer, 39-75	32-3083
12	Condenser (.03 mf. tubular)	30-4464
13	Resistor (70,000 ohms, 1/2 watt)	33-3701359
14	1st I. F. Transformer Assembly, 39-70	32-2841
15	1st I. F. Transformer Assembly, 39-75	32-3078
16	2nd I. F. Transformer Assembly	32-3081
17	Resistor (51,000 ohms, 1/2 watt)	33-3511359

Schem. No.	Description	Part No.
14	Resistor (2.0 megohms, 1/2 watt)	33-4201359
15	Volume Control and On-Off Switch, 39-70	33-5290
16	Volume Control and On-Off Switch, 39-75	33-5291
17	Condenser (.01 mf. tubular)	30-4572
18	Condenser (110 mmf. mica)	30-1031
19	Condenser (.01 mf. tubular)	30-4571
20	Resistor (2.0 megohms, 1/2 watt)	33-4201359
21	Resistor (2.0 megohms, 1/2 watt)	33-5203359
22	Resistor (1000 ohms, 1/2 watt)	33-5203359
23	Condenser (.003 mf. tubular)	30-4469
24	Output Transformer	32-7995
25	Cone and Voice Coil Assembly— 39-70 "B" Spkr. Pt. No. 36-1435 39-70 "P" Spkr. Pt. No. 36-1447 39-75 "B" Spkr. Pt. No. 36-1442 39-75 "P" Spkr. Pt. No. 36-1447	36-4090 36-4092 36-4090 36-4092
26	Electrolytic Condenser (3 mf.)	30-2146

MISCELLANEOUS PARTS

Model 39-70, Code 121

Bezel Window	27-5417
Cable (Battery)	41-3427
Dial	27-5416
Dial Drive Cord	31-2317
Dial Drive Spring	28-4751
Dial Pointer	28-5468
Knob	27-4332

On-Off Indicator Parts— Hub and Lever	38-9658
Toggle Link and Brkt. Assy.	38-9700
Spring (Toggle Link and Brkt. Assy.)	38-9925
Snap Fastener	56-1156
Pulley (Tuning Condenser)	28-6662
Pulley Screw (Tuning Condenser)	28-6887
Shaft Assy. (Tuning)	11-2320
Speaker ("B" Cabinet)	36-1435
Speaker ("P" Cabinet)	36-1447

Model 39-75, Code 121-122

Automatic Tuning Unit Complete	31-2282
Bezel (Dial)	40-6164
Bezel Gasket (Dial)	27-9174
Bezel (Push-Button)	28-5829
Bezel Gasket (Push-Button)	27-9218
Dial	27-5420
Dial Pointer	28-5464
Dial Drive Cord	31-2275
Dial Drive Cord Spring	28-4919
Dial Drive Drum (Tuning Condenser)	31-2281

Knob (Volume)	27-4753
Knob (Tuning)	27-4750
Knob Screw (Tuning)	28-6882
Push-Button	27-4749
Push-Button Spring	28-8918
Slide-Short (Tuning Shaft, Code 121-122)	36-1440
Speaker ("B" Cabinet)	36-1442
Socket (1A7G)	27-6999
Socket (6 prong)	36-6946
Socket (7 prong)	27-6082

Model 39-75, Code 122

Extension Shaft (Volume)	30-9640
Extension Shaft (Tuning)	28-6928
Extension Sleeve—Long (Tuning Shaft)	28-6935

Socket (Speaker)	27-6115
Spring (Retaining Vol. Knob)	28-8915

Specifications

TYPE OF CIRCUIT: Models 39-70, 39-75 and 39-80 are four tube battery operated superheterodyne receivers covering standard broadcast and short wave stations. The receivers employ Philco 1A7G Grid Converter, 1A7G Grid, 6X4 Rectifier, and 6X4 low current for operation. Automatic Volume Control and a Philco Speaker designed especially for battery radio. In general these models are similar but differ in their tuning mechanisms, speakers and cabinets.

Model 39-70 is manually tuned and is assembled in cabinet type "B" (table model). Model 39-75 is an automatic push-button and manual tuning. The automatic tuning mechanism contains six push-buttons for selecting any of six stations in the standard broadcast band. The procedure for adjusting and operating the push-buttons will be found in the instructions supplied with each set.

Code 121 of Model 39-70 is assembled in cabinet type "P" (portable model). Code 121 in cabinet type "P" (table model). Model 39-80 is manually tuned and is assembled in cabinet type "B" (table model) and cabinet type "P" (portable model). In addition to the new Philco speaker in Model 39-80 a sound chamber is also built into the cabinet. This sound chamber reinforces the sound produced by the speaker and results in greater clarity of tone and intensity of sound output. Bass compensation is also included in the volume control circuit.

TUNING RANGE: 530 to 1720 K. C.

INTERMEDIATE FREQUENCY: 470 K. C.

PHILCO TUBES: One 1A7G, First Detector and Oscillator; one 1A7G, I. F. Amplifier; one 6X4, Second Detector; First Audio and Automatic Volume Control, and one 1C55 (1A5G Model 39-80) Pentode Output.

BATTERIES REQUIRED: One (1) Philco "A" Pack, Part No. 41-8014; one (1) Philco "B" Pack, Part No. 41-8015.

INSTALLING BATTERIES: The batteries are arranged in the cabinet in such a manner that they form part of the sound chamber air column.

Alignment of Compensators

OUTPUT METER: The Philco 027 Output Meter is connected to the plate and screen terminals of the type 1C5G tube in Models 39-70 and 39-75 (1A5G Model 39-80) and adjusted for the 0 to 30 V. A. C. scale. After connecting the output meter, adjust the compensators in the order as shown in the tabulation below. Locations of the compensators are shown on page 2. If the compensators are not properly adjusted, the strength of the signal from the generator, reduce the strength of the signal from the generator.

PROCEDURE FOR MODELS 39-70 AND 39-75

Operations in Order	SIGNAL GENERATOR					RECEIVER		
	Output Connections to Receiver	Dial Setting	Dial Setting	Control Setting	Adjust Compensators	Special Instructions	Special Instructions	Special Instructions
1	1A7G Grid	470 K. C.	580 K. C.	Vol. Max.	12A, 11B, 11A	Note B	Note C	Note C
2	Ant. (White)	225 mid.	1550 K. C.	Vol. Max.	4B, 4A	Note B	Note C	Note C

PROCEDURE FOR MODEL 39-80

Operations in Order	SIGNAL GENERATOR					RECEIVER		
	Output Connections to Receiver	Dial Setting	Dial Setting	Control Setting	Adjust Compensators	Special Instructions	Special Instructions	Special Instructions
1	1A7G Grid	470 K. C.	580 K. C.	Vol. Max.	13A, 12B, 12A	Note B	Note C	Note C
2	Ant. (White)	225 mid.	1550 K. C.	Vol. Max.	4B, 4A	Note B	Note C	Note C

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