

Philco Radio & Television Corp.

Model: 42-335

Chassis:

Year: Pre 1945

Power:

Circuit:

IF:

Tubes:

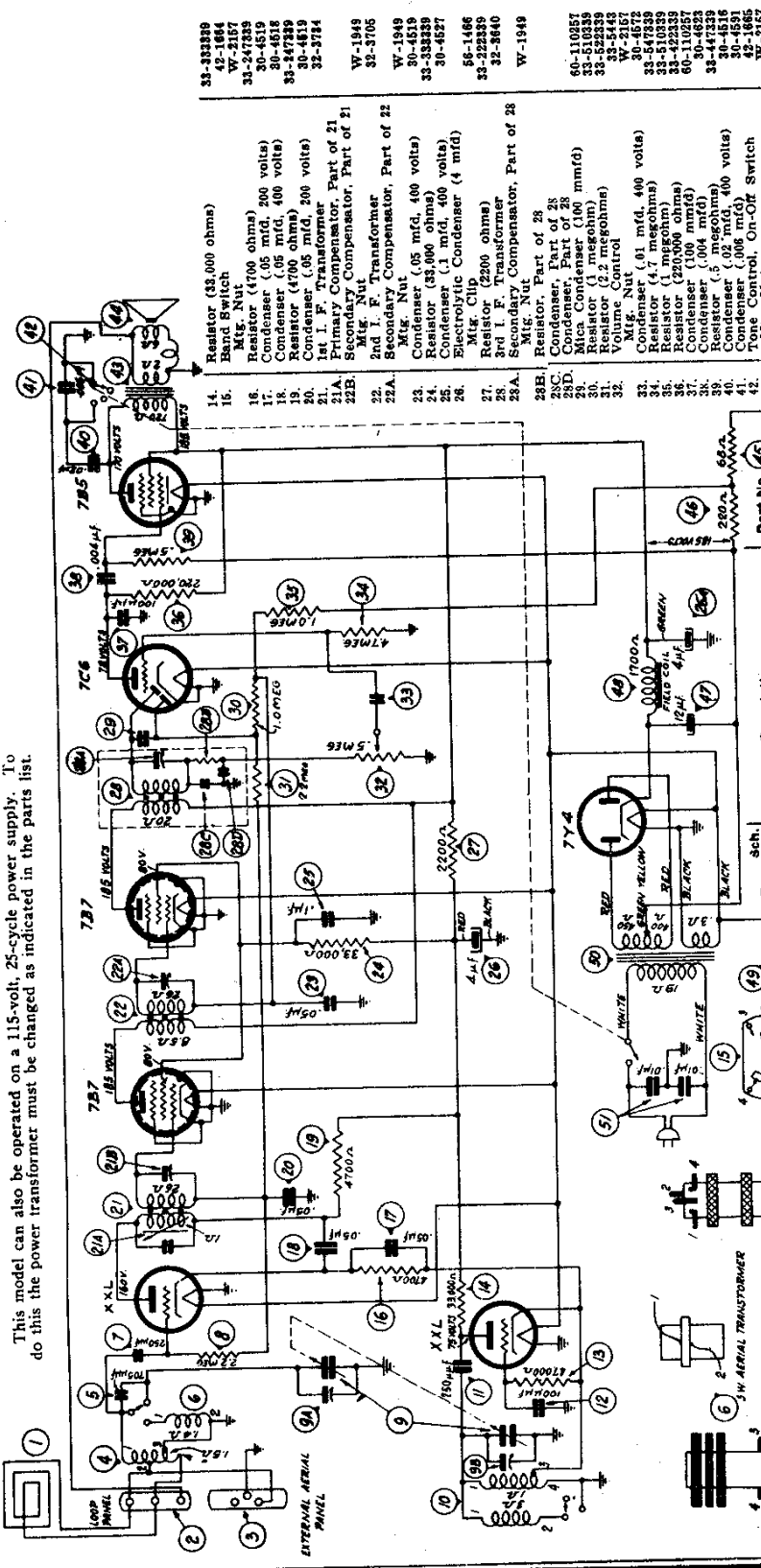
Bands:

Resources

[Riders Volume 14 - PHILCO 14-33](#)

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PHILCO RADIO & TELEVISION CORP.

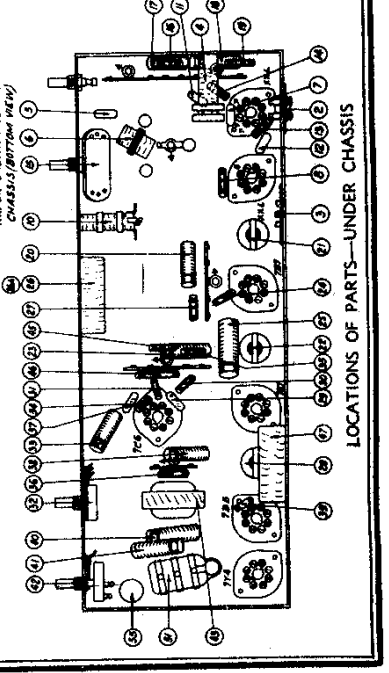


Sch. No.	Description	Part No.
1	Loop Aerial	76-1270
2	Mtg. Screw	38-9342
3	Terminal Panel (Loop)	37-6145
4	Aerial Transformer	32-3697
5	Mica Condenser (.05 mmfd)	28-5002
6	Aerial Transformer (Voice)	60-15257
7	Resistor (.5 megohms)	33-52339
8	Tuning Condenser	31-2544
9A	Oscillator Transformer, Part of 9	
9B	Drive Shaft Assembly	
10	Drive Cord (Tuning Cond.)	38-9883
11	Drive Cord (Pointer Drive)	56-5152
12	Spring (Pointer Drive)	28-2943
13	Mounting Sleeve (Tuning Cond.)	31-2547
14	Mounting Washer	27-4556
15	Washer	28-3806
16	Pulleys (Drive Cord)	W-151
17	Mtg. Screw (Cond. Drive)	W-202
18	Spring (Pointer Drive)	28-4946
19	Oscillator Transformer	28-8751
20	Mica Condenser (.50 mmfd)	28-9583
21	Mica Condenser (.100 mmfd)	32-3588
22	Resistor (.17,000 ohms)	60-112527
23	Resistor (.17,000 ohms)	33-347839
24	Resistor (.05 mid, 400 volts)	33-33239
25	Condenser (.05 mid, 200 volts)	33-547339
26	Condenser (.05 mid, 200 volts)	33-547339
27	Resistor (2200 ohms)	33-547339
28	Resistor (1 megohm)	33-547339
29	Resistor (1 megohm)	33-547339
30	Resistor (1 megohm)	33-547339
31	Resistor (3.2 megohms)	33-547339
32	Volume Control	W-2157
33	Mica Condenser (.01 mfd, 400 volts)	33-547339
34	Resistor (4.7 megohms)	33-547339
35	Resistor (1 megohm)	33-547339
36	Resistor (220,000 ohms)	33-547339
37	Condenser (.004 mfd)	60-112527
38	Resistor (.5 megohms)	33-447339
39	Resistor (.02 mfd, 400 volts)	38-4516
40	Condenser (.008 mfd)	42-1665
41	Tone Control, On-Off Switch	W-2157
42	Output Transformer	32-3172
43	Speaker	36-1518-9
44	Cone Assembly	36-1206
45	Resistor (68 ohms, 1/2 watt)	33-006339
46	Resistor (220 ohms, 1 watt)	33-124156
47	Electrolytic Condenser	56-1486
48	Mtg. Clip	34-5145
49	Field Coil (Replace Speaker)	34-5064
50	Power Transformer (115 volts, 60 cycle)	32-8964
51	Power Transformer (115 volts, 25 cycle)	32-9075
	Screw	W-483
	Shield (60 cycle)	56-1528
	Shield (25 cycle)	56-1529
	Shield Base (25 cycle)	56-1547
	Power Line Condensers (Dual .01 mfd)	56-1548
	3993-ODG	

This model can also be operated on a 115-volt, 25-cycle power supply. To do this the power transformer must be changed as indicated in the parts list.

Tuning Bands: 540 to 1600 KC; 1.6 to 3.3 MC.
 Intermediate Frequency: 455 KC.
 Audio Output: 1.5 watts.
 Power Consumption: 45 watts.

FOR OTHER DATA SEE INDEX



LOCATIONS OF PARTS—UNDER CHASSIS

MODEL 42-335
MODEL 42-358

PHILCO RADIO & TELEVISION CORP.

REPLACEMENT PARTS—Model 42-335, Codes 121-122

Sch. No.	Description	Part No.	Sch. No.	Description	Part No.	Sch. No.	Description	Part No.
1.	Loop Aerial	76-1190	26C.	Condenser, Part of 26		38.	Pilot Lamp	34-2477
	Mtg. Sleeve	28-2806	26D.	Condenser, Part of 26			Socket Assembly	78-1282
	Mtg. Sleeve	56-1907	27.	Resistor (470,000 ohms)	33-447339	39.	Condenser (.04 mfd, 400 volts)	36-4119
	Mtg. Sleeve	56-1545	28.	Resistor (470,000 ohms)	33-447339	40.	Power Switch, Part of 23	
	Mtg. Screw	14-726	29.	Resistor (130 ohms), Code 121	33-118236	41.	Power Cord	L-3190
	Mtg. Washer	W-151	30.	Mica Condenser (250 mmfd)	33-118236	42.	Parts Used in Code 122 Only	
	Spring Washer	28-4188	31.	Condenser (.01 mfd, 400 volts)	30-4572		Electrolytic Condenser (10-20-24	
1A.	Condenser (505 mfd)	30-4621	32.	Condenser (.02 mfd, 400 volts)	30-4516		mfd) (Code 122)	36-2629
2.	Aerial Transformer	32-3772	33.	Output Transformer	32-8180	43.	Field Coil (Replace Speaker	
	Mtg. Clip	28-5002	34.	Speaker (Code 121)	36-1482-2		36-1566)	
3.	Tuning Condenser	31-2099		Speaker (Code 122)	36-1566	Miscellaneous Parts		
3A.	Aerial Compensator (1500 KC), Part of 3			Cone Assembly (For Speaker 26-1566)	36-4215			
3B.	Oscillator Compensator (1700 KC), Part of 3			Speaker Cable (Code 122)	41-2683		Mtg. Screw	W-2071
	Drive Pulley	38-9956		Cone Assembly (For Speaker 26-1488-3)	36-4129		Cabinet	10543-B
	Drive Cord	31-2686		Speaker Cable (Code 121)	41-3448		Dial	27-6748
	Spring	28-8954		Speaker Socket (Code 121)	27-6115		Dial Pointer	56-2189
	Mtg. Screw	W-123	35.	Electrolytic Condenser (20-20 mfd) (Code 121)	30-2515		Spring Fastener (Dial)	54-6161
	Mtg. Spacer	28-5665		Mtg. Clamp	56-1466		Knob	54-4989
	Mtg. Grommet (2 required)	27-4936	36.	Filter Choke	32-8182		Socket	27-6174
	Mtg. Grommet (1 required)	54-4020	37.	Filament Resistor (50 ohms)	33-2412		Socket	27-6177
	Tuning Shaft	31-2566					Mtg. Rivet	W-328
4.	Mtg. Nut	W-684					Socket (Speaker)	27-6115
5.	Compensator (580 KC)	31-6410					Screw (Chassis Mtg.)	W-2880
6.	Mica Condenser (250 mmfd)	60-12515					Washer (Chassis Mtg.)	W-410
7.	Mica Condenser (250 mmfd)	60-12515						
	Oscillator Transformer	32-3771						
	Mtg. Clip	28-5002						
8.	Mica Condenser (100 mmfd)	60-110157						
9.	Resistor (2,000 ohms)	33-347339						
10.	Resistor (2200 ohms)	33-22239						
11.	Condenser (.05 mfd, 200 volts)	30-4519						
12.	Condenser (.01 mfd, 400 volts)	30-4572						
13.	Resistor (10,000 ohms)	33-110220						
14.	1st I. F. Transformer	32-3773						
14A.	Primary Compensator, Part of 14							
14B.	Secondary Compensator, Part of 14							
14C.	Condenser, Part of 14							
	Mtg. Nut	W-1949						
15.	Resistor (2.2 megohms)	38-322339						
16.	Resistor (10,000 ohms)	33-10339						
17.	Condenser and R. F. Choke	76-1181						
18.	Resistor (15,000 ohms)	33-315339						
19.	Condenser (.05 mfd, 200 volts)	30-4519						
20.	2nd I. F. Transformer	32-3774						
20A.	Secondary Compensator, Part of 20							
21.	Condenser (.05 mfd, 200 volts)	30-4519						
22.	Resistor (2.2 megohms)	33-522339						
23.	Mtg. Nut	33-5464						
	Volume Control	W-2157						
	Mtg. Nut	30-4622						
24.	Condenser (.01 mfd, 400 volts)	33-547339						
25.	Resistor (4.7 megohms)	32-3775						
26.	3rd I. F. Transformer							
26A.	Secondary Compensator, Part of 26							
26B.	Resistor, Part of 26							

Aerial Connections: The built-in loop aerial system is designed to operate without an outside aerial or ground, and to give exceptionally sensitive receiving performance.

In steel reinforced buildings, however, and other shielded locations, where station signal strength is weak, the Philco Safety Aerial, Part No. 40-6370, is recommended. A lug and wire grounded to the rear of the chassis by a screw is provided for attaching the safety aerial. Remove the lug from under the screw and connect the aerial lead.

If an external aerial is not used this lug should be grounded to the chassis by the screw to obtain best performance with the built-in loop. A ground is not required with either type of aerial.

ALIGNING R. F. AND I. F. COMPENSATORS

When aligning the R. F. padders a loop is made from a few turns of wire and connected to the signal generator output terminals; the signal generator and loop is then placed close to the loop of the radio.

The receiver can be adjusted in the cabinet or removed from the cabinet. When adjusting the radio outside the cabinet the loop aerial should be placed in approximately the same position around or near the chassis as when assembled.

After connecting the aligning instruments adjust the compensators as shown in the tabulation below. Locations of the compensators are shown on the schematic diagrams.

If the indicating meter pointer goes off scale when adjusting the compensator, reduce the strength of the signal from the generator.

PROCEDURE—MODEL 42-335

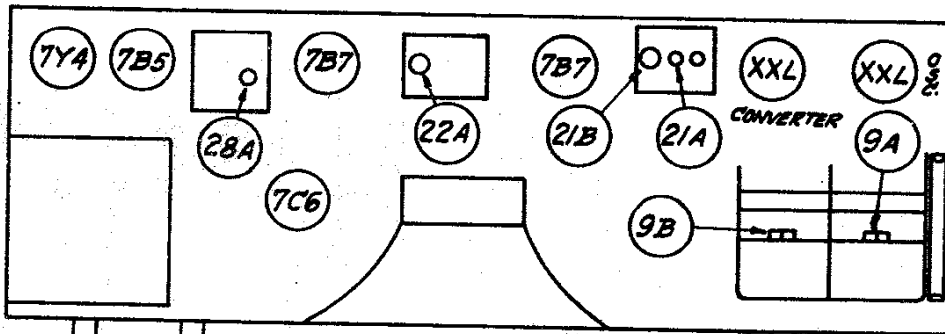
Operations in Order	SIGNAL GENERATOR		RECEIVER		SPECIAL INSTRUCTIONS
	Output Connections to Receiver	Dial Setting	Dial Setting	Control Setting	
1	Ant. Section of Tuning Cond.	455 KC	Tuning Cond. Closed	Vol. Max. Range Switch "Broadcast"	Note A
2	Loop	1500 KC	1500 KC	Vol. Max. Range Switch "Broadcast"	Note B
3	Loop	1500 KC	1500 KC	Vol. Max. Range Switch "Broadcast"	

PROCEDURE—MODEL 42-358

Operations in Order	SIGNAL GENERATOR		RECEIVER		SPECIAL INSTRUCTIONS
	Output Connections to Receiver	Dial Setting	Dial Setting	Control Setting	
1	Ant. Section of Tuning Cond.	455 KC	540 KC	Vol. Max.	14A, 14B, 20A, 26A
2	Loop	1500 KC	1500 KC	Vol. Max.	9B Tuning Condenser
3	Loop	1500 KC	1500 KC	Vol. Max.	3A Tuning Condenser
4	Loop	580 KC	580 KC	Vol. Max.	4
5	Loop	See above instructions	Repeat Operation 2		Roll Tuning Condenser

NOTE A—Compensator (21A) Model 42-335, must be adjusted before (21B) Model 42-335, and should be done in the following manner: Turn 21B all the way down, then adjust I. F. padders in the order as tabulated on only.

NOTE B—DIAL CALIBRATION: In order to adjust the receiver correctly, the dial must be aligned to track properly with the tuning condenser. To do this, proceed as follows: Turn the tuning condenser to the maximum capacity position (plates fully meshed). With the condenser in this position, set the tuning pointer on the index line below 540 KC.



LOCATIONS OF COMPENSATORS, TOP OF CHASSIS
Model 42-335