

# Models 42-716 Code 121, 42-717 Code 121, 42-718 Code 121

## SPECIFICATIONS

### Model 42-716

**TYPE OF CIRCUIT:** Five tube alternating current (A.C.) operated superheterodyne circuit with four (4) tuning ranges. In addition this model includes a two point tone control; automatic volume control; pentode audio output circuit; band indicator and dial light.

**TUNING RANGES:** Broadcast—540 to 1600 K.C.; SW-1—3.0 to 9.5 MC; SW-2—9.4 to 12.0 MC; SW-3—11.8 to 22 MC.

**INTERMEDIATE FREQUENCY:** 455 K.C.

**POWER SUPPLY:** Operates on either a 115 or 230 volt, 50 to 60 cycle power supply. To use either of the above voltages change the power transformer primary wiring as indicated on the label at the rear of the chassis and schematic diagram. The model can also be operated on a 115 volt, 25 cycle power supply, by changing the power transformer as indicated in the parts list page.

**POWER CONSUMPTION:** 35 watts.

**PHILCO TUBES USED:** 6J8EG, converter; 787E, I, F, amplifier; 7C6, 2nd detector-1st audio; 6K6EG, audio output, and a 7Y4 rectifier.

**AUDIO OUTPUT:** 1.5 Watts.

### Model 42-717

**TYPE OF CIRCUIT:** Five tube A.C.-D.C. operated superheterodyne circuit with four (4) tuning ranges. Included in this model is a two point tone control; automatic volume control; pentode audio output circuit; band indicator and a dial light.

**TUNING RANGES:** Broadcast—540 to 1600 K.C.; SW-1—3.0 to 9.5 MC; SW-2—9.4 to 12 MC; SW-3—11.8 to 22 MC.

**INTERMEDIATE FREQUENCY:** 455 K.C.

**POWER SUPPLY:** Operates on either a 115 volt or 230 volt power supply. To use either of the power supply voltages, insert the ballast lamp in the socket on the chassis as indicated for each voltage.

**POWER CONSUMPTION:** 115 volts, 33 watts.  
230 volts, 67 watts.

**PHILCO TUBES USED:** 7A8E, converter; 787E, I, F, amplifier; 7C6, 2nd detector-1st audio; 35A5E, audio output, and a 35Z3 rectifier.

**AUDIO OUTPUT:** 1.2 watts D.C. operation.  
1.8 watts A.C. operation.

### Model 42-718

**TYPE OF CIRCUIT:** Four (4) tube storage battery (6 volts) operated superheterodyne circuit with four tuning ranges. A synchronous vibrator is used in the power supply circuit for converting the storage battery voltage to a high voltage for plate circuits. Other features included in this model are: two point tone control; automatic volume control; pentode audio output circuit; tuning band indicator; permanent magnet speaker and a dial light.

**TUNING RANGES:** Broadcast—540 to 1600 K.C.; SW-1—3.0 to 9.5 MC; SW-2—9.4 to 12 MC; SW-3—11.8 to 22 MC.

**INTERMEDIATE FREQUENCY:** 455 K.C.

**POWER SUPPLY:** 6 volt storage battery.

**PHILCO TUBES USED:** 7A8E, converter; 787E, I, F, amplifier; 7C6 2nd detector-1st audio; 785E audio output.

**POWER CONSUMPTION:** 2 amperes.

**AUDIO OUTPUT:** .7 Watts.

**AERIAL AND GROUND:** To obtain maximum operating performance, an "L" type aerial such as Philco Part #40-6383 is recommended. A good ground connection to a water pipe or any other metal object in moist earth should be used.

## ALIGNING R. F. AND I. F. COMPENSATORS

(The Procedure is the Same for All Models)

### EQUIPMENT REQUIRED

**SIGNAL GENERATOR:** such as Philco Model 070, A.C. operated or Model 177 battery operated. These signal generators cover all frequencies required in aligning these models.

**INDICATING DEVICE:** To obtain maximum signal strength and accurate adjustments of the padders, a vacuum tube voltmeter similar to Philco Models 027

and 028 are recommended. These instruments also contain an audio output meter which may be used as an aligning indicator. The method of connecting either of these instruments is listed below.

**ALIGNING TOOLS:** Fibre handle screw driver, Philco part #45-2610. Service Aligning Scale, part #45-2909.

### CONNECTING ALIGNING INSTRUMENTS

**VACUUM TUBE VOLTMETER:** To use the vacuum tube voltmeter as an aligning indicator it should be connected to the A.V.C. circuit as follows:

1—Connect the negative (—) terminal of the vacuum tube voltmeter through a 2 megohm resistor to any point in the circuit where the A.V.C. voltage can be measured.

2—Connect the positive (+) terminal to the chassis ground terminal.

**AUDIO OUTPUT METER:** If this type of meter is used as an aligning indicator, it should be connected to the plate and screen terminals of the 6K6EG tube in Model 42-716; 35A5E, Model 42-717; 785E, Model 42-718. Adjust the meter for the 0 to 30 volt A.C. scale.

After connecting the aligning meter, adjust the compensators in the order as shown in the tabulations below. Locations of the compensators are shown on the schematic diagram.

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

**NOTE:** The dial scale in these models is mounted on the cabinet. For convenience, when aligning the chassis outside of the cabinet, a special service aligning scale, part No. 45-2909, is available. This service dial scale is attached to the dial background plate. If the radio is aligned in the cabinet, the cabinet dial scale is used.

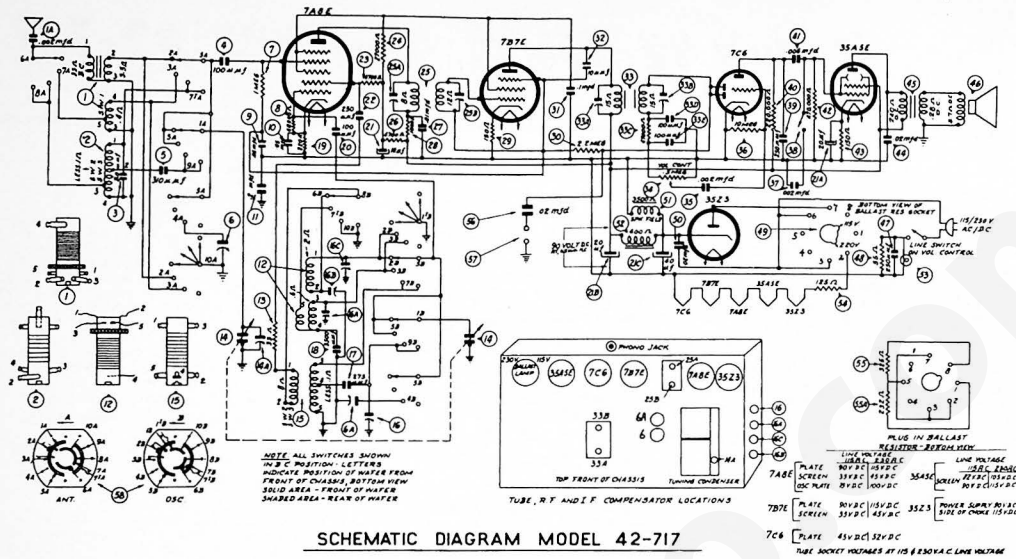
Operations In Order	SIGNAL GENERATOR			RECEIVER					SPECIAL INSTRUCTIONS
	Output Connections to Radio	Dummy Aerial Note A	Dial Setting	Dial Setting	Control Settings	Adjust Compensators			
						42 716	42 717	42 718	
1	Lug of aerial tuning cond.	.1 mfd.	455 K. C.	580 K. C.	Band Switch "Brdct" Volmax	28A 28B 22A 22B	33A 33B 25A 25B	24A 24B 20A 20B	
2	Aerial	400 ohms	21 M. C.	21 M. C.	Band Switch S. W. 3	13 12A	16 14A	16 12A	Note B Note C
3	Aerial	400 ohms	12 M. C.	12 M. C.	Band Switch S. W. 2	6A 6	6A 6	6A 6	Note C
4	Aerial	400 ohms	6 M. C.	6 M. C.	Band Switch S. W. 1	13A	16A	16A	
5	Aerial	200 mmfd.	1500 K. C.	1500 K. C.	Band Switch "Brdct"	13C	16C	16C	
6	Aerial	200 mmfd.	580 K. C.	580 K. C.	Band Switch "Brdct"	13B	16B	16B	Roll tuning condenser
7	Aerial	200 mmf.	1500 K. C.	1500 K. C.	Band Switch "Brdct"	13C	16C	16C	

**NOTE A**—The "Dummy Aerial" consists of a condenser or resistor connected in series with the signal generator output lead (highside). Use the capacity or resistance as specified in each step of the above procedure.

**NOTE B**—Dial Calibration: In order to adjust the receiver correctly the dial must be aligned to track properly with the tuning condenser. To adjust the dial, proceed as follows: With the tuning condenser closed (maximum capacity) set

the dial pointer on the first mark on the left edge (low frequency end) of the broadcast scale.

**NOTE C**—When adjusting the aerial compensators, be sure to tune in the fundamental signal (21 M. C.) instead of the image signal. If the compensator is correctly adjusted the image signal will be found by turning the signal generator dial 910 K. C. above the fundamental signal which will be 21.910 M. C.



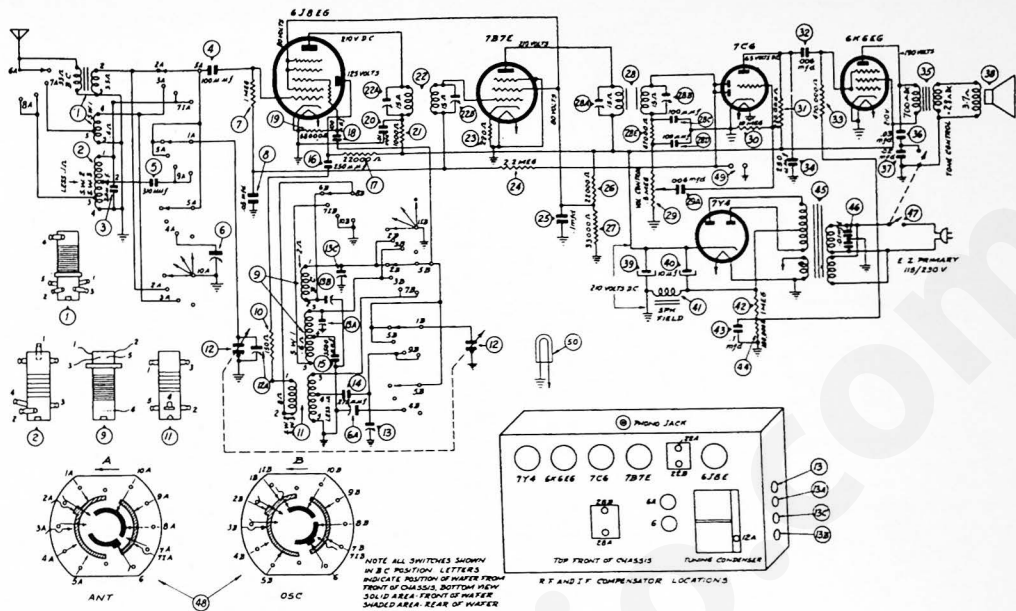
SCHEMATIC DIAGRAM MODEL 42-717

Replacement Parts — Model 42-717

The tube element voltages indicated on diagram were measured at socket contacts with a 1,000 ohms per volt meter—Philco Model 027.—Line Voltage 117 A.C.

SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.	MISCELLANEOUS PARTS — MODEL 42-717	DESCRIPTION	PART No.
1.	Aerial Transformer (Brdct. & SW-1).	32-3655	38.	Tone Control Nut	42-1574	Cable (Rectifier)	41-3573	
2.	Aerial Transformer (SW-2, SW-3).	28-5002	39.	Mica Condenser (250 mmf.)	60-125457	Cabinet	10479H	
3.	Mica Condenser (20 mmf.)	60-020437	40.	Resistor (220,000 ohms)	33-422338	Disc. Foot	27-4804	
4.	Mica Condenser (100 mmf.)	60-110457	41.	Condenser (1,000 mfd., 400 volts)	30-4610	Cabinet Back	27-9661	
5.	Mica Condenser (310 mmf.)	30-1201	42.	Resistor (470,000 ohms)	33-447339	Baffle & Cloth	40-8548	
6.	Compensator (SW-2 Aerial)	31-6416	43.	Resistor (150 ohms)	33-115339	Fasteners (Baffle Mtg.)	56-6082	
6A.	Compensator (SW-2 Osc.)	part of 6	44.	Condenser (.02 mfd., 600 volts)	30-4599	Screw (Baffle Mtg.)	W-2076	
7.	Resistor (84,000 ohms)	33-510339	45.	Output Transformer (for Speaker)	36-1509-3	Screw (Back Mtg.)	W-2160	
8.	Resistor (84,000 ohms)	33-510339	46.	Ballast Resistor Socket	32-8158	Cord (Power)	L-3274	
9.	Condenser (.05, 200 volts)	30-4609	47.	Cone Assembly (for Speaker 36-1509-3)	36-4162	Plug (Power Cable)	L-3275	
10.	Condenser (.05 mfd., 200 volts)	30-4519	48.	Mica Condenser (250 mmf.)	60-125457	Disc. Scale	27-5703	
11.	Condenser (.2 mfd., 400 volts)	30-4584	49.	Filament Resistor (55 ohms)	33-3397	Mt. Straps	W-1260	
12.	Oscillator Transformer (Brdct. & SW-1)	32-3709	50.	Ballast Resistor Socket	36-1643	Washers (Scale Mtg.)	W-152	
13.	Resistor (33 ohms)	33-033339	51.	Eyelet (Mtg. Socket)	W-1650	Screw	W-2082	
14.	Tuning Condenser	31-2534	52.	Condenser (.02 mfd., 400 volts)	30-4516	Knob	27-6332	
15.	Drive Drum	36-9893	53.	Speaker Field Replace Speaker	36-1509	Socket (Loktal Tubes)	27-6177	
16.	Drive Cord (Tuning Cond.)	31-2542	54.	Filter Choke	32-7868	Rivet	W-239	
17.	Drive Cord (Pointer)	31-2543	55.	Nut	W-95	Socket Assembly (Pilot Lamp)	36-1509	
18.	Shaft & Rubber Connector	27-9432	56.	Screw	W-2131	Screw	W-2150	
19.	Shaft Bearing	27-9437	57.	Pilot Lamp	34-2068E	Terminal Panel (3 lug)	36-8978	
20.	"C" Washer	28-4323	58.	Filament Resistor (125 ohms)	part of 48	Terminal Panel (4 lug)	36-9809	
21.	Spring (Drive Shaft)	57-1468	59.	Ballast Resistor	33-3389	Terminal Panel (2 lug)	36-9777	
22.	Spring (Tuning Drive Drive)	28-8751	60.	Ballast Resistor	33-3389	Terminal Panel (5 lug)	36-9929	
23.	Spring (Pointer Drive Cord)	28-8953	61.	Condenser (.02 mfd., 400 volts)	33-4516			
24.	Sleeve (Mtg. Tuning Cord)	56-1307	62.	Phonograph Socket	27-6149			
25.	Screw (Mtg. Tuning Cord)	W-1974	63.	Rivet	W-207			
26.	Pointer (Dial Scale)	56-2322	64.	Band Switch	42-1658			
27.	Rubber Mtg. (Tuning Condenser)	27-4586						
28.	Oscillator Transformer (SW-2, SW-3)	32-3651						
29.	Mounting Clip	28-5002						
30.	Compensator (Osc. 21 mc.)	31-6411						
31.	Compensator (Osc. 580 kc.)	part of 16						
32.	Compensator (Osc. 1500 kc.)	part of 16						
33.	Mica Condenser (.275 mmf.)	30-1200						
34.	Mica Condenser (3,500 mmf.)	60-235224						
35.	Resistor (220 ohms)	33-122334						
36.	Mica Condenser (100 mmf.)	60-110457						
37.	Electrolytic Condenser (10 mfd.)	30-2506						
38.	Electrolytic Condenser (20 mfd.)	part of 21						
39.	Electrolytic Condenser (20 mfd.)	part of 21						
40.	Electrolytic Condenser (40 mfd.)	part of 21						
41.	Mica Condenser (250 mmf.)	60-125457						
42.	Resistor (4,700 ohms)	33-24339						
43.	Resistor (27,000 ohms)	33-327339						
44.	1st I. F. Transformer	32-3704						
45.	Nut	W-1948						
46.	Resistor (4,700 ohms)	33-27339						
47.	Condenser (.01 mfd., 400 volts)	30-4572						
48.	Resistor (1,000 ohms)	33-210339						
49.	Resistor (150 ohms)	33-115339						
50.	Resistor (2.2 megohms)	33-27339						
51.	Condenser (.1 mfd., 200 volts)	30-4586						
52.	Mica Condenser (10 mmf.)	60-010437						
53.	2nd I. F. Transformer	32-3649						
54.	Compensator	part of 33						
55.	Compensator	part of 33						
56.	Resistor (47,000 ohms)	33-347339						
57.	Compensator	part of 33						
58.	Compensator	part of 33						
59.	Compensator	part of 33						
60.	Nut	W-2157						
61.	Condenser (.002 mfd., 400 volts)	30-4579						
62.	Resistor (10 megohms)	33-610339						
63.	Condenser (.002 mfd., 400 volts)	30-4579						

FIG. 2 — LOCATIONS OF PARTS — UNDERSIDE OF CHASSIS — MODEL 42-717



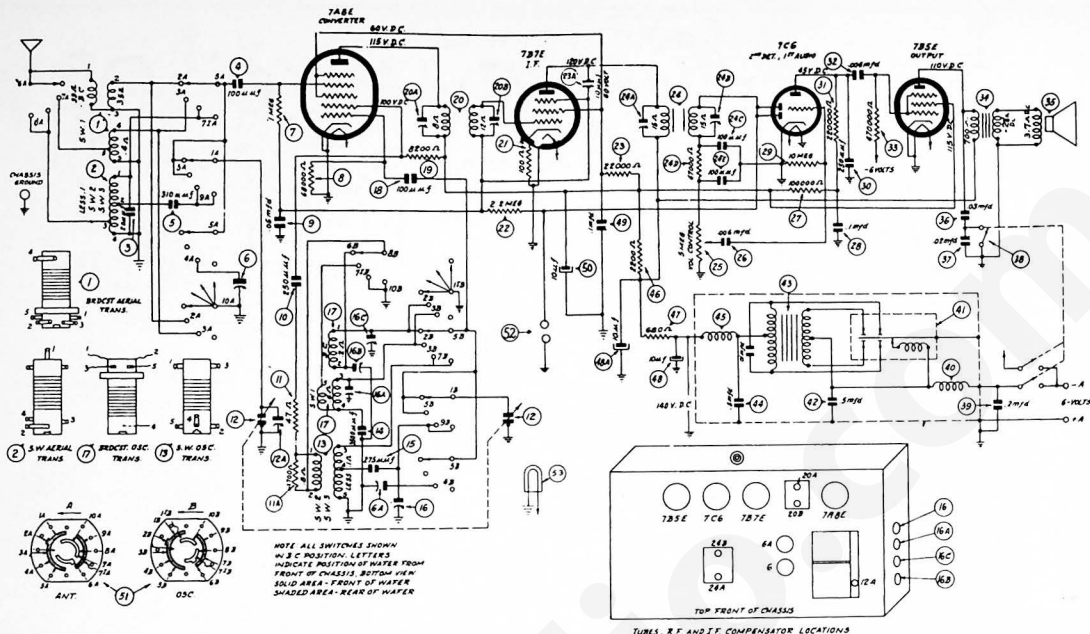
SCHMATIC DIAGRAM MODEL 42-716, CODE 121

The tube element voltages indicated on diagram were measured at socket contacts with a 1,000 ohms per volt meter—Philco Model 027.—Line Voltage 117 A.C.

Replacement Parts — Model 42-716

No. SCHE.	DESCRIPTION	No. PART	No. SCHE.	DESCRIPTION	No. PART	No. SCHE.	DESCRIPTION	PART No.
1.	Aerial Transformer (Brdest-SW-1)	32-3655	38.	Cone Assembly (for Speaker 36-1504-2)	36-4126		Cabinet	10478G
2.	Coil Clip	28-5002	39.	Electrolytic Condenser (10 mfd.)	30-2459		Disc Feet	27-4894
3.	Aerial Transformer (SW-2)	32-3652	40.	Electrolytic Condenser (10 mfd.)	30-2459		Cabinet Back	27-8661
4.	Coil Clip	28-5002	41.	Field Coil (replace Speaker 36-1504)	L-3275		Screw	W-2076
5.	Mica Condenser (20 mmd.)	60-020337	42.	Resistor (1 megohm)	33-510339		Baffle & Cloth	40-6548
6.	Mica Condenser (100 mmd.)	60-110457	43.	Condenser (.1 mfd., 200 volts)	30-4586		Fasteners	56-6082
7.	Mica Condenser (310 mmd.)	30-1201	44.	Resistor (100,000 ohms)	33-418339		Washer Scale Mts.	W-152
8.	Compensator (SW-2 Aerial)	31-64116	45.	Power Transformer (115/220 volt 60 cycle primary) (115 Volts, 25 cycle, primary)	32-8093 32-8073		Screw	W-2062
9.	Resistor (1 megohm)	33-510339	46.	Plug	L-3275		Knob	27-4332
10.	Condenser (.05 mfd., 200 volts)	30-4809	47.	Screw	W-1974		Shield (Power Transformer)	56-1325
11.	Oscillator Transformer (Brdest-SW-1)	32-3656	48.	Condenser (Dual .01 mfd.)	3909-ODG		Shield Base (Power Transformer)	56-1326
12.	Resistor (150 ohms)	33-115339	49.	Tone Control and Off-On Switch	42-1520		Socket (7B7E, 7C6, 7Y4 Tubes)	27-6177
13.	Oscillator Transformer (SW-2)	32-3651	50.	Band Switch	42-1850		Rivet	W-239
14.	Drive Shaft	31-2543		Nut	W-684		Socket (6J8EG, 6X6EG Tubes)	27-6174
15.	Drive Cord (Tuning Cond.)	31-2542		Phonograph Input Socket	27-6149		Rivet	W-239
16.	Drive Cord (Pointer)	31-2543		Rivet	W-207		Socket Assembly (Pilot Lamp)	76-1115
17.	Spring	56-6123		Cable (Power)	L-3274		Speaker	36-1504
18.	"C" Washer	28-2043						
19.	Rear Bearing	27-9437						
20.	Rubber Connector	27-9432						
21.	Sleeve (Tuning Cond. Mtg.)	56-1307						
22.	Spring (Cond. Drive Cord)	28-8751						
23.	Spring (Pointer Drive Cord)	28-8953						
24.	Mtg. Rubber (Tuning Condenser)	27-4596						
25.	Drive Drum	38-9883						
26.	Screw (Mtg. Tuning Cond.)	97-0028						
27.	Compensator	Part of 12						
28.	Compensator	Part of 12						
29.	Compensator (21 mc.)	31-6411						
30.	Compensator (6 mc.)	Part of 13						
31.	Compensator (500 kc.)	Part of 13						
32.	Compensator (1500 kc.)	Part of 13						
33.	Silver Mica Condenser (275 mmd.)	30-1200						
34.	Mica Condenser (3,500 mmd.)	60-235224						
35.	Mica Condenser (250 mmd.)	60-125457						
36.	Resistor (22,000 ohms)	33-322339						
37.	Mica Condenser (100 mmd.)	60-110457						
38.	Resistor (60,000 ohms)	33-383339						
39.	Condenser (.01 mfd., 400 volts)	30-4572						
40.	Resistor (1,000 ohms)	33-210339						
41.	1st I. F. Transformer	28-3653						
42.	Nut	W-1949						
43.	Resistor (220 ohms)	33-122339						
44.	Resistor (2.2 megohms)	33-322339						
45.	Condenser (.1 mfd., 200 volts)	30-4586						
46.	Resistor (22,000 ohms)	33-322439						
47.	Resistor (33,000 ohms)	33-333339						
48.	2nd I. F. Transformer	32-3654						
49.	Compensator	Part of 28						
50.	Compensator	Part of 28						
51.	Compensator	Part of 28						
52.	Resistor	Part of 28						
53.	Volume Control	33-347339						
54.	Nut	W-2157						
55.	Condenser (.006 mfd., 400 volts)	30-4597						
56.	Resistor (10 megohms)	33-610339						
57.	Resistor (22,000 ohms)	33-422339						
58.	Condenser (.006 mfd., 400 volts)	30-4610						
59.	Resistor (470,000 ohms)	33-447339						
60.	Mica Condenser (250 mmd.)	60-125457						
61.	Output Transformer	32-8106						
62.	Nut	W-85						
63.	Screw	W-2121						
64.	Condenser (.03 mfd., 400 volts)	30-4517						
65.	Condenser (.02 mfd., 400 volts)	30-4516						

FIG. 1—LOCATIONS OF PARTS—UNDERSIDE OF CHASSIS—MODEL 42-716



SCHEMATIC DIAGRAM, MODEL 42-718, CODE I21

The tube element voltages indicated on diagram were measured at socket contacts with a 1,000 ohms per volt meter—Philco Model 027.

Replacement Parts — Model 42-718

SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.
1.	Aerial Transformer (Brdcst. & SW-1)	32-3655	34.	Output Transformer	32-8106		Rubber Grommet (set to Cabinet)	27-4596
2.	Mounting Clips	28-5002		Rivet	W-207		Rubber Cushion (Vibrator)	27-4607
3.	Aerial Transformer (SW-2, SW-3)	32-3652	35.	Cone Assembly (for Speaker 36-1520-4)	36-4180		Spacers (Vibrator Mtg.)	28-9685
4.	Mounting Clips	28-5002	36.	Condenser (.03 mfd., 400 volts)	30-4517	<b>MISCELLANEOUS PARTS</b>		
5.	Mica Condenser (20 mmfd.)	60-029437	37.	Condenser (.02 mfd., 400 volts)	30-4516		Cabinet	10478G
6.	Mica Condenser (100 mmfd.)	60-110457	38.	Tone Control—OFF-ON Switch	42-1800		Cabinet Back	27-9661
7.	Mica Condenser (310 mmfd.)	20-031017	39.	Nut	W-2157		Baffle & Cloth	40-6548
8.	Compensator (Aerial 6 mc.)	part of 6	40.	"A" Choke	65-0151		Fasteners	56-6082
8A.	Compensator (Osc. 6 mc.)	part of 6	41.	Vibrator	33-510339		Screw	W-2023
7.	Resistor (1 megohm)	33-510339	42.	Condenser (.5 mfd., 200 volts)	30-4590		Screw	W-2179
8.	Resistor (68,000 ohms)	33-358239	43.	Power Transformer	32-8128		Dial Scale	27-5703
9.	Condenser (.05 mfd., 200 volt)	30-4609	44.	Screw	W-453		Mtg. Straps	56-1752
10.	Mica Condenser (250 mmfd.)	60-125457	45.	Condenser (.5 mfd., 200 volts)	30-4590		Washer	W-152
11.	Resistor (47 ohms)	33-247339	46.	"B" Choke	32-3522		Screw	W-2062
11A.	Resistor (47,000 ohms)	33-247339	47.	Resistor (2,200 ohms)	33-222339		Knob	27-4332
12.	Tuning Condenser	31-2534	48.	Resistor (680 ohms)	33-169339		Shield Assembly (Vibrator)	76-1100
	Drive Shaft	56-6123	49.	Electrolytic Condenser (10 mfd.)	30-2479		Screw (Vibrator Shield Assembly)	W-1974
	Drive Shaft Bearing	27-9437	48A.	Electrolytic Condenser (10 mfd.)	30-2478		Socket (Loktal)	27-6177
	"C" Washer (Drive Shaft)	28-2943	50.	Condenser (1 mfd., 200 volts)	42-1658		Rivets	W-239
	Drive Cord (Tuning Cond.)	31-2542	51.	Electrolytic Condenser (10 mfd.)	27-6149		Socket (Vibrator)	27-6036
	Drive Cord (Pointer)	31-2543	52.	Band Switch	33-358239		Mtg. Plate	28-3557
	Drive Drum (Tuning Cond.)	38-9883	53.	Phonograph Socket	34-2068E		Eyelite	W-1650
	Pointer (Dial)	56-2226		Pilot Lamp			Socket Assembly (Pilot Lamp)	76-1115
	Rubber Connector (Drive Shaft)	27-9432		Clamp Cable	28-1644		Speaker	36-1520
	Spring (Cord, Drive Cord)	28-8751		Screw	W-2106		Screw (Speaker Mtg.)	W-2150
	Spring (Pointer Drive Cord)	28-8953		Clamp (Electro Cond.)	56-1466		Terminal Panel (3 lug)	38-9778
	Sleeve (Mtg. Tuning Cond.)	56-1307		Clamp (Insulator Vibrator)	27-9717		Terminal Panel (2 lug)	38-9777
	Screw (Tuning Cond. Mtg.)	W-1974		Kapox, small (Insulating Vibrator)	27-9718		Terminal Panel (2 lug)	38-9810
	Washer (Tuning Cond. Mtg.)	W-1511		Kapox, large (Insulating Vibrator)	27-9719		Terminal Panel (3 lug) (Vib. Socket support)	38-9929
13.	Oscillator Transformer (SW-2, SW-3)	32-3651		Rubber Grommet (Mtg. Vibrator Unit)	27-4596			76-1101
	Mounting Clips	28-5002						
14.	Mica Condenser (2,500 mmfd.)	60-23324						
15.	Mica Condenser (275 mmfd.)	50-1200						
16.	Compensator (Osc. 21 mc.)	31-6411						
16A.	Compensator (Osc. 5 mc.)	part of 16						
16B.	Compensator (Osc. 500 kc.)	part of 16						
16C.	Compensator (Osc. 1,500 kc.)	part of 16						
17.	Oscillator Transformer (Brdcst. SW-1)	32-3709						
	Mounting Clips	28-5002						
18.	Mica Condenser (100 mmfd.)	60-110457						
19.	Resistor (8,200 ohms)	33-282339						
20.	1st I. F. Transformer	W-1949						
	Nuts	part of 20						
20A.	Compensator	part of 20						
20B.	Compensator	part of 20						
21.	Resistor (100 ohms)	33-110339						
22.	Resistor (2.2 megohms)	33-522339						
23.	Resistor (22,000 ohms)	33-347339						
23A.	Mica Condenser (10 mmfd.)	60-010437						
24.	1st I. F. Transformer	32-3722						
	Nut	W-1949						
24A.	Compensator	part of 24						
24B.	Compensator	part of 24						
24C.	Compensator	part of 24						
24D.	Resistor (47,000 ohms)	part of 24						
24E.	Condenser	part of 24						
25.	Volume Control	33-5465						
	Nut	W-2157						
26.	Condenser (.005 mfd., 400 volts)	30-4591						
27.	Resistor (100,000 ohms)	33-410339						
28.	Condenser (.1 mfd., 200 volts)	30-4582						
29.	Resistor (10 megohms)	33-610339						
30.	Mica Condenser (250 mmfd.)	60-125457						
31.	Resistor (220,000 ohms)	33-222339						
32.	Condenser (.005 mfd., 400 volts)	30-4610						
33.	Resistor (470,000 ohms)	33-447339						

FIG. 3—LOCATIONS OF PARTS — UNDERSIDE OF CHASSIS 42-718.