

MODELS 40-725, Code 121; and 40-755, Code 121

SPECIFICATIONS

Model 40-725

TYPE CIRCUIT: Model 40-725, code 121, is a six (6) tube A. C. operated receiver employing a superheterodyne circuit with three tuning ranges for reception of Standard, Police and Shortwave Broadcast Stations. Connections are also provided for attaching a high impedance Electric Phonograph pick-up. In addition other features of design are: Automatic Volume Control; Continuously Variable Tone Control; Bass Compensation; and special compensation for reducing frequency drift to a minimum.

POWER SUPPLY: 100-130 or 200-260 volt, 50-60 cycle, 60 watts. The voltage ranges are selected by inserting the plug as indicated on top of the power transformer.

TUNING RANGES:
530 to 1720 K. C. 2.3 to 7.4 M. C. 7.3 to 22 M. C.

I. F. FREQUENCY: 455 K. C.

PHILCO TUBES: 78E, R. F. Amplifier; 6J8EG, Converter-Oscillator; 78E, I. F. Amplifier; 75, Second Detector, First Audio, and A. V. C.; 41E, Pentode Audio Output; 84, Rectifier.

AUDIO OUTPUT: 2.5 watts.

AERIAL AND GROUND: To obtain maximum performance from this receiver, the Philco Safety Aerial, Part No. 40-6370 should be used and a good ground connection to the nearest water pipe or any other good ground.

CABINET DIMENSIONS:
Height, 14 1/4". Width, 18 1/4". Depth, 10 1/4".

Model 40-755

TYPE CIRCUIT: Model 40-755, code 121, is an eight (8) tube A. C. operated receiver employing a superheterodyne circuit with three tuning ranges for reception of Standard, Police and Shortwave Broadcast Stations. Connections are also provided for attaching a high impedance Electric Phonograph pick-up. Other features of design are: Automatic Volume Control; Continuously Variable Tone Control; Bass Compensation; Push-Pull Pentode Audio Output; Tuning Resonance Indicator, and special compensation for reducing frequency drift to a minimum.

POWER SUPPLY: 100-130 or 200-260 volt, 50 to 60 cycle, 83 watts. The voltage ranges are selected by inserting the plug as indicated on top of the power transformer.

TUNING RANGES:
530 to 1720 K. C. 2.3 to 7.4 M. C. 7.3 to 22 M. C.

I. F. FREQUENCY: 455 K. C.

PHILCO TUBES: 78E, R. F. Amplifier; 6J8EG, Converter-Oscillator; 78E, I. F. Amplifier; 75, Second Detector, First Audio, and A. V. C.; 76, Inverter; two 42E, Pentode Audio Output; 80, Rectifier.

AUDIO OUTPUT: 5 watts.

AERIAL AND GROUND: Same as Model 40-725.

CABINET DIMENSIONS:
Height, 14 1/4". Width, 20". Depth, 10 1/4".

ALIGNING COMPENSATING CONDENSERS

EQUIPMENT REQUIRED

(1) **Signal Generator.** In order to properly adjust this receiver a calibrated signal generator such as Philco Model 077 A. C. or Model 177 battery operated are required. These signal generators cover a frequency range of 540 to 36,000 K. C.

(2) **Indicating Device.** To obtain maximum signal strength and accurate adjustment of the padders a vacuum tube volt-

meter and circuit tester such as Philco Models 027 and 028 is recommended. These testers also contain an audio output meter which may be used as an indicating device.

(3) **Aligning Tools.** Fiber handle screw driver, Philco Part No. 45-2610.

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 voltmeter through a 2 meg. resistor to the converter grid (6J8G). The resistor must be connected directly to the grid of the tube and the voltmeter wire attached to the resistor.

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 41 tube. 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 tabulation below. Locations of the compensators are shown in Fig. 1. If the output meter pointer goes off scale when adjusting the compensators, reduce the strength of the signal from the generator.

Operations in Order	SIGNAL GENERATOR			RECEIVER				SPECIAL INSTRUCTIONS
	Output Connections to Receiver	Dummy Antenna Note A	Dial Setting	Dial Setting	Control Settings	Adjust Compensators		
						Model 40-725	Model 40-755	
1	6J8G Grid and Ground	.1 mfd.	455 K. C.	580 K. C.	Vol. Max. Tone Treble	38B, 38A, 32B, 32A	39B, 39A, 33B, 33A	
2	Ant. & Grnd.	200 mmfd.	1500 K. C.	1500 K. C.	Vol. Max. Range Switch "Brdcst"	27, 22B, 22A	27, 32B, 32A	Note B
3	Ant. & Grnd.	200 mmfd.	580 K. C.	580 K. C.	Vol. Max.	23	23	Roll Gang
4	Ant. & Grnd.	200 mmfd.	1500 K. C.	1500 K. C.	Vol. Max.	27, 22B, 22A	27, 32B, 32A	
5	Ant. & Grnd.	400 ohms	6.0 M. C.	6.0 M. C.	Vol. Max. Tone Treble Range Switch "S.W.1"	27A	27A	Roll Gang
6	Ant. & Grnd.	400 ohms	20 M. C.	20 M. C.	Vol. Max. Tone Treble Range Switch "S.W.2"	29, 15, 5	29, 16, 5	Note C

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

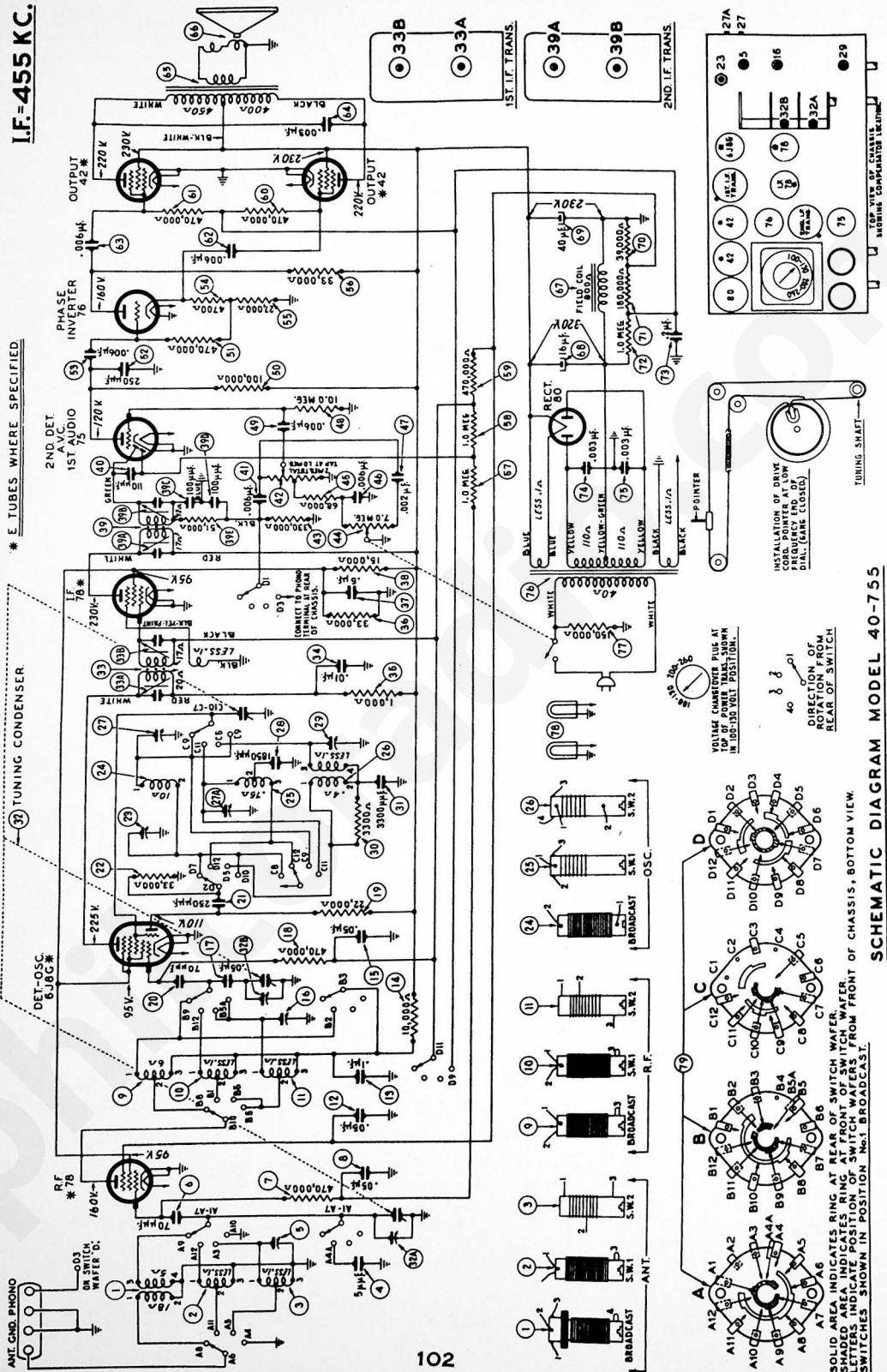
NOTE B—**DIAL CALIBRATION:** In order to adjust the receiver correctly the dial must be aligned to track properly with the tuning condenser. To adjust the dial, proceed as follows: With the tuning

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 compensator (29) be sure to tune in the fundamental signal (20 M. C.) instead of the image signal. If the compensator is correctly adjusted, the image signal will be 910 K. C. below the fundamental signal, which will be 19,090 M. C.

I.F. = 455 KC.

* E TUBES WHERE SPECIFIED



TUNING CONDENSER

DET. OSC. 6J5G

RF 78

ON SWITCH WAFER 'D'

ANT. GND. PHONO

2ND. DET. AVC AUDIO 75

I.F. 78

PHASE INVERTER 76

2ND. DET. AVC AUDIO 75

RECT. 80

1ST. I.F. TRANS.

2ND. I.F. TRANS.

TUNING SHAFT

INSTALLATION OF DRIVE

DIRECTION OF ROTATION FROM REAR OF SWITCH

VOLTAGE CHARTER RING AT TOP OF POWER TRANS. SHOWN IN 100-0-100 VOLT POSITION.

SOLID AREA INDICATES RING AT REAR OF SWITCH WAFER. SHADED AREA INDICATES RING AT FRONT OF SWITCH WAFER. SWITCHES SHOWN IN POSITION No. 1. BROADCAST.

ANT. BROADCAST S.W. 1

R.F. BROADCAST S.W. 2

OSC. BROADCAST S.W. 3

ANT. BROADCAST S.W. 4

OSC. BROADCAST S.W. 5

OSC. BROADCAST S.W. 6

OSC. BROADCAST S.W. 7

OSC. BROADCAST S.W. 8

OSC. BROADCAST S.W. 9

OSC. BROADCAST S.W. 10

OSC. BROADCAST S.W. 11

OSC. BROADCAST S.W. 12

OSC. BROADCAST S.W. 13

OSC. BROADCAST S.W. 14

OSC. BROADCAST S.W. 15

OSC. BROADCAST S.W. 16

OSC. BROADCAST S.W. 17

OSC. BROADCAST S.W. 18

OSC. BROADCAST S.W. 19

OSC. BROADCAST S.W. 20

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OSC. BROADCAST S.W. 229

OSC. BROADCAST S.W. 230

MODELS 40-725, Code 121; and 40-755, Code 121

Model 40-725, Code 121 Replacement Parts

SCH. No.	DESCRIPTION	PART No.
1	Antenna Transformer (Broadcast)	32-2888
2	Antenna Transformer (S. W. 2)	32-3191
3	Antenna Transformer (S. W. 2)	32-3196
4	Tubular Condenser (.5 mfd.)	32-3190
5	Compensator (Antenna S. W. 2)	31-6288
6	Mica Condenser (70 mmfd.)	30-1117
7	Resistor (470,000 ohms, 1/2 watt)	33-447339
8	Tubular Condenser (.05 mfd.)	30-4609
9	R. F. Transformer (Broadcast)	32-3189
10	R. F. Transformer (S. W. 1)	32-3190
11	R. F. Transformer (S. W. 2)	32-3197
12	Tubular Condenser (.05 mfd.)	30-4519
13	Tubular Condenser (1.1 mfd.)	30-4811
14	Resistor (10,000 ohms, 1 watt)	33-310439
15	Compensator (R. F. S. W. 2)	31-6288
16	Mica Condenser (70 mmfd.)	30-1117
17	Tubular Condenser (.05 mfd.)	30-4609
18	Resistor (470,000 ohms, 1/2 watt)	33-447339
19	Tubular Condenser (.05 mfd.)	30-4609
20	Resistor (22,000 ohms, 1/2 watt)	33-333339
21	Resistor (33,000 ohms, 1/2 watt)	33-333339
22	Mica Condenser (250 mmfd.)	30-1119
23	Tuning Condenser Assembly	31-2386
24	Compensator (Broadcast series)	31-6289
25	Oscillator Transformer (Broadcast)	32-3254
26	Oscillator Transformer (S. W. 1)	32-3094
27	Oscillator Transformer (S. W. 2)	32-3092
28	Compensator (Broadcast shunt)	31-6287
29	Compensator (S. W. 1)	31-6310
30	Tracking Condenser (1850 mmfd.)	31-6288
31	Resistor (3300 ohms, 1/2 watt)	33-233339
32	Tracking Condenser (3300 mmfd.)	31-6289
33	1st I. F. Transformer Assembly	32-3187
34	Tubular Condenser (1.1 mfd.)	30-4811
35	Resistor (1,000 ohms, 1/2 watt)	33-210339
36	Resistor (33,000 ohms, 1/2 watt)	33-333339
37	Tubular Condenser (.2 mfd.)	30-4583
38	Resistor (15,000 ohms, 1 watt)	33-315439
39	2nd I. F. Transformer Assembly	32-3131
40	Mica Condenser (110 mmfd.)	30-1118
41	Tubular Condenser (.006 mfd.)	30-4583
42	Volume Control (3 meg.)	33-5299
43	Resistor (330,000 ohms, 1/2 watt)	33-433339
44	Tone Control and On-Off Switch	33-5299
45	Resistor (47,000 ohms, 1/2 watt)	30-4583
46	Tubular Condenser (.006 mfd.)	30-4579
47	Tubular Condenser (.002 mfd.)	30-4579
48	Resistor (10.0 meg., 1/2 watt)	33-610339
49	Resistor (470,000 ohms, 1/2 watt)	33-473339
50	Resistor (220,000 ohms, 1/2 watt)	33-222339
51	Mica Condenser (110 mfd.)	30-1119
52	Tubular Condenser (.006 mfd.)	30-4810
53	Resistor (1.5 meg., 1/2 watt)	33-515339
54	Resistor (680,000 ohms, 1/2 watt)	33-468339
55	Tubular Condenser (.003 mfd.)	30-4608
56	Output Transformer	32-8018
57	Cone and Voice Coil Assembly (Speaker Part No. 38-1452-2)	36-4103
58	Field Coil (Part No. 38-1452-3)	36-4103
59	Electrolytic Condenser (16 mfd., 300 V.)	30-2319
60	Electrolytic Condenser (16 mfd., 400 V.)	30-2320
61	Resistor (33,000 ohms, 1/2 watt)	33-333339
62	Resistor (100,000 ohms, 1/2 watt)	33-100339
63	Resistor (1.0 meg., 1/2 watt)	33-510339
64	Tubular Condenser (.2 mfd.)	30-4582
65	Tubular Condenser (.006 mfd.)	30-4808
66	Drive Cord Assembly	31-2320

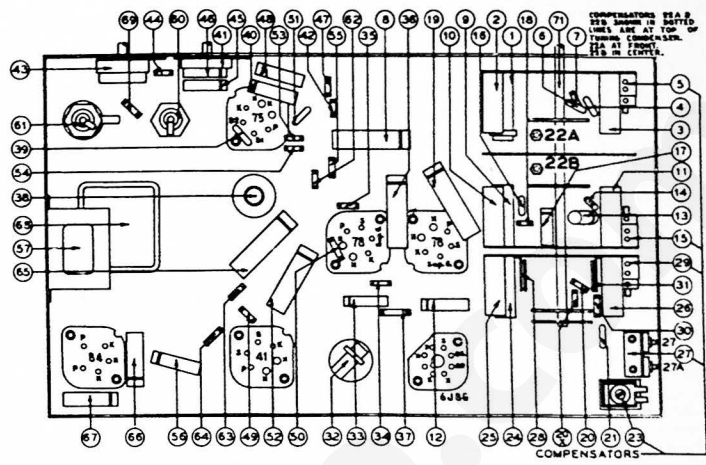


FIG. 1. MODEL 40-725 PART LOCATIONS, UNDERSIDE OF CHASSIS.

SCH. No.	DESCRIPTION	PART No.	SCH. No.	DESCRIPTION	PART No.
67	Tubular Condenser (.003 mfd.)	30-4608	27-8223	Felt Strip (Bezel Mounting)	27-8223
68	Power Transformer (100-130 V., 200-260 V., 50-80 cycles)	32-8007	27-4330	Knob (Tuning)	27-4330
69	Resistor (150,000 ohms, 1/2 watt)	33-413339	27-4882	Knob (Tone Control)	27-4882
70	Pilot Lamps	32-1064	27-4322	Knobs (Volume and Wave Switch)	27-4322
71	Wave Switch	42-1504	38-9796	Pilot Lamp Socket Assembly	38-9796
			36-1276	Pointer	36-1276
			W-2071	Screws (Bezel Mounting)	W-2071
			28-5002	Spring Clip (Cord Mounting)	28-5002
			28-5813	Socket (Drive Card)	28-5813
			27-6036	Socket (8 prong, type 78, 41, 75 tubes)	27-6036
			27-6058	Socket (Octal, type 6J8G tube)	27-6058
			36-1482	Speaker	36-1482
			31-2327	Tuning Drum and Coupling	31-2327
			31-2329	Vernier Drive (Tuning)	31-2329

MISCELLANEOUS PARTS

38-1222	Bezel
L-367	Cable and Plug (Power Supply)
10417A	Special Export Power Plug
27-5344	Cabinet
31-2320	Drive Cord Assembly

Model 40-755, Code 121 Replacement Parts

SCH. No.	DESCRIPTION	PART No.
1	Antenna Transformer (Broadcast)	32-2888
2	Antenna Transformer (S. W. 1)	32-3191
3	Antenna Transformer (S. W. 2)	32-3196
4	Tubular Condenser (.5 mfd.)	32-3190
5	Compensator (Antenna S. W. 2)	31-6288
6	Mica Condenser (70 mmfd.)	30-1117
7	Resistor (470,000 ohms, 1/2 watt)	33-447339
8	Tubular Condenser (.05 mfd.)	30-4609
9	R. F. Transformer (Broadcast)	32-3189
10	R. F. Transformer (S. W. 1)	32-3190
11	R. F. Transformer (S. W. 2)	32-3197
12	Tubular Condenser (.05 mfd.)	30-4519
13	Tubular Condenser (1.1 mfd.)	30-4811
14	Resistor (10,000 ohms, 1 watt)	33-310439
15	Compensator (R. F. S. W. 2)	31-6288
16	Mica Condenser (70 mmfd.)	30-1117
17	Tubular Condenser (.05 mfd.)	30-4609
18	Resistor (470,000 ohms, 1/2 watt)	33-447339
19	Tubular Condenser (.05 mfd.)	30-4609
20	Resistor (22,000 ohms, 1/2 watt)	33-333339
21	Resistor (33,000 ohms, 1/2 watt)	33-333339
22	Mica Condenser (250 mmfd.)	30-1119
23	Tuning Condenser Assembly	31-2386
24	Compensator (Broadcast series)	31-6289
25	Oscillator Transformer (Broadcast)	32-3254
26	Oscillator Transformer (S. W. 1)	32-3094
27	Oscillator Transformer (S. W. 2)	32-3092
28	Compensator (Broadcast shunt)	31-6287
29	Compensator (S. W. 1)	31-6311
30	Tracking Condenser (3300 mmfd.)	31-6288
31	Tuning Condenser Assembly	31-2386
32	Tracking Condenser (3300 mmfd.)	31-6289
33	1st I. F. Transformer Assembly	30-4577
34	Tubular Condenser (1.1 mfd.)	30-4811
35	Resistor (1,000 ohms, 1/2 watt)	33-210339
36	Resistor (33,000 ohms, 1/2 watt)	33-333339
37	Tubular Condenser (.2 mfd.)	30-4583
38	Resistor (15,000 ohms, 1 watt)	33-315439
39	2nd I. F. Transformer Assembly	32-3131
40	Mica Condenser (110 mmfd.)	30-1118
41	Tubular Condenser (.006 mfd.)	30-4583
42	Volume Control (3 meg.)	33-5299
43	Resistor (330,000 ohms, 1/2 watt)	33-433339
44	Tone Control and On-Off Switch	33-5299
45	Resistor (47,000 ohms, 1/2 watt)	30-4583
46	Tubular Condenser (.006 mfd.)	30-4579
47	Tubular Condenser (.002 mfd.)	30-4579
48	Resistor (10.0 meg., 1/2 watt)	33-610339
49	Resistor (470,000 ohms, 1/2 watt)	33-473339
50	Resistor (220,000 ohms, 1/2 watt)	33-222339
51	Mica Condenser (110 mfd.)	30-1119
52	Tubular Condenser (.006 mfd.)	30-4810
53	Resistor (1.5 meg., 1/2 watt)	33-515339
54	Resistor (680,000 ohms, 1/2 watt)	33-468339
55	Tubular Condenser (.003 mfd.)	30-4608
56	Output Transformer	32-8058
57	Cone and Voice Coil Assembly (Speaker Part No. 38-1452-4)	36-4104
58	Field Coil (Speaker Part No. 38-1460-3)	36-4105
59	Electrolytic Condenser (16 mfd., 300 V.)	30-2319
60	Electrolytic Condenser (16 mfd., 400 V.)	30-2320
61	Resistor (33,000 ohms, 1/2 watt)	33-333339
62	Resistor (100,000 ohms, 1/2 watt)	33-100339
63	Resistor (1.0 meg., 1/2 watt)	33-510339
64	Tubular Condenser (.2 mfd.)	30-4582
65	Tubular Condenser (.006 mfd.)	30-4808
66	Drive Cord Assembly	31-2320

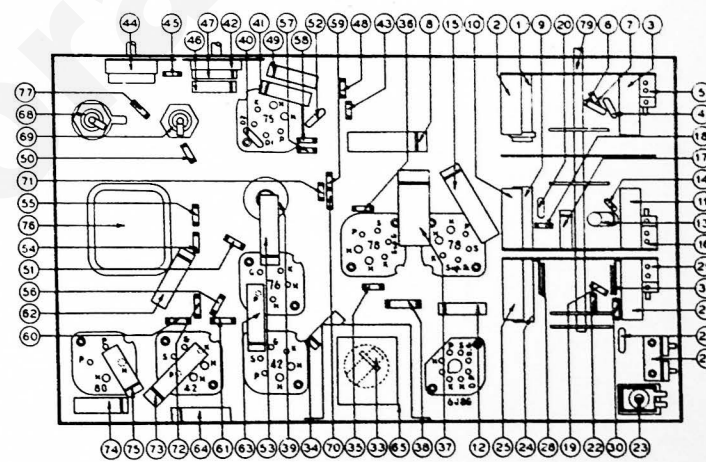


FIG. 2. MODEL 40-755 PART LOCATIONS, UNDERSIDE OF CHASSIS

SCH. No.	DESCRIPTION	PART No.	SCH. No.	DESCRIPTION	PART No.
67	Tubular Condenser (.003 mfd.)	30-4608	27-8223	Felt Strip (Bezel Mounting)	27-8223
68	Power Transformer (100-130 V., 200-260 V., 50-80 cycles)	32-8007	27-4330	Knob (Tuning)	27-4330
69	Resistor (150,000 ohms, 1/2 watt)	33-413339	27-4882	Knob (Tone Control)	27-4882
70	Pilot Lamps	32-1064	27-4322	Knobs (Volume and Wave Switch)	27-4322
71	Wave Switch	42-1504	38-9796	Pilot Lamp Socket Assembly	38-9796
			36-1276	Pointer	36-1276
			W-2071	Screws (Bezel Mounting)	W-2071
			28-5002	Spring Clip (Cord Mounting)	28-5002
			28-5813	Socket (Drive Card)	28-5813
			27-6036	Socket (8 prong, type 78, 42, 75 tubes)	27-6036
			27-6058	Socket (Octal, type 6J8G tube)	27-6058
			36-1482	Speaker	36-1482
			31-2327	Tuning Drum and Coupling	31-2327
			31-2329	Vernier Drive (Tuning)	31-2329

MISCELLANEOUS PARTS

38-1222	Bezel
L-367	Cable and Plug (Power Supply)
10417A	Special A. C. Power Plug
27-5344	Cabinet
31-2320	Drive Cord Assembly