

TYPE OF CIRCUIT:

Model 107, code 121 is a combination Automatic Record Changer, Phonograph and Electric push-button tuning radio receiver.

The record Changer plays eight 10" records automatically and 12" records manually and employs a crystal pick-up. Instructions for servicing the Record Changer, Part No. 35-1169 will be found on page 88.

The Radio Receiver employs a five tube A.C. operated superheterodyne circuit, covering standard broadcast frequencies: 530 to 1720 K.C., Automatic Volume Control, and Pentode Audio Output. Six Electric Automatic Push-Buttons are provided; five push-buttons are used for selecting any one of five stations in the standard broadcast range, and one push-button for

The aligning instructions for the R.F. and I.F. Compensating condensers will be found under the model 39-7, code 121, Page 16.

SPECIFICATIONS

changing to manual tuning. The procedure for adjusting the push-buttons for reception of stations will be found in the instructions supplied with each set.

INTERMEDIATE FREQUENCY: 470 K.C.

PHILCO TUBES USED:

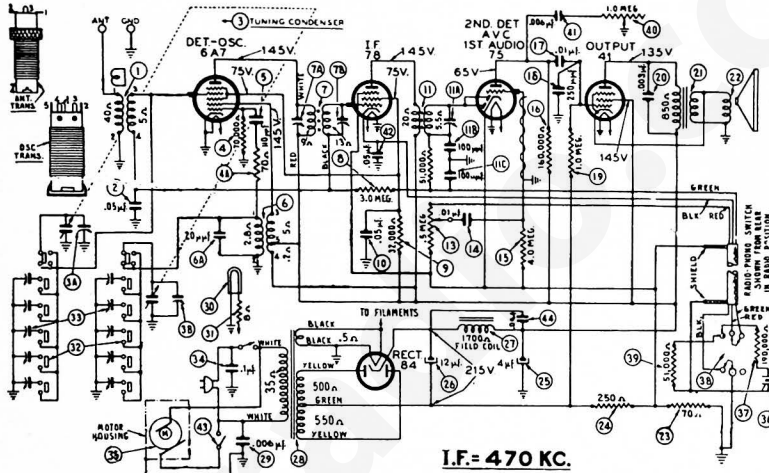
6A7 First Detector Oscillator; 78, I.F. Amplifier; 75, Second Detector, A.V.C., First Audio; 41 Audio Output and 84, Rectifier.

POWER SUPPLY: 115 V., 50 to 60 cycle A.C.

Power Transformers are available for operation on 115 V., 25 to 40 cycles A.C.

POWER CONSUMPTION: 57 watts

AUDIO OUTPUT: One (1) watt



REPLACEMENT PARTS

Automatic Record Changer 35-1169 Replacement Parts and Mechanical Instructions will be found on Page 88.

Schem. No.	Description	Part No.	Schem. No.	Description	Part No.
1	Antenna Transformer.....	32-3039	26	(Run 2- 10 mfd. 450 V.).....	30-2404
2	Tubular Condenser (.05 mfd.).....	30-4519	27	Electrolytic Cond. (12 mfd., 300V.)	30-2404
3	Tuning Condenser.....	31-2338		Field Coil	
4	Resistor (70,000 ohms, 1/2 watt.)	33-370339		(replace spkr. #36-1473-3)	
4A	Resistor (70 ohms, 1/2 watt.)....	33-070339		(replace spkr. #36-1440-3)	
5	Mica Condenser (110 mmfd.).....	30-1031	28	Power Trans. (115V., 50-60 cycles.	32-7979
6	Oscillator Transformer.....	32-2122	29	Condenser (.006 mfd., moulded)...	30-4423
6A	Mica Condenser (20 mmfd.).....	30-1123	30	Pilot Lamp.....	34-2084
7	1st I.F. Transformer Assy.....	32-3121	31	Pilot Lamp Resistor (8 ohms, 1/2 watt)	33-980331
8	Resistor (3.0 meg., 1/2 watt)....	33-530339	32	Push Button Switch.....	42-1477
9	Resistor (32,000 ohms, 1/2 watt.)	33-352339	33	Padder Strip Assembly.....	31-6290
10	Tubular Cond. (.05 mfd.).....	80-4444	34	Tubular Cond. (.1 mfd.).....	30-4122
11	2nd I.F. Transformer Assy.....	32-2874	35	Phono Motor (110 volt 60 cycle)...	35-1163
12	Resistor (51,000 ohms, 1/2 watt.)	33-351339	36	Crystal Pick-up (metal case)....	35-2041
13	Volume Control (.5 meg.).....	33-5254		Crystal Pick-up (bakelite case).	35-2030
14	Tubular Condenser (.01 mfd.)....	30-4479	37	Resistor (190,000 ohms, 1/2 watt)	33-419339
15	Resistor (4.0 meg., 1/2 watt)....	33-540339	38	Radio Phono Switch.....	42-1509
16	Resistor (160,000 ohms, 1/2 watt)	33-416339	39	Resistor (51,000 ohms, 1/2 watt.)	33-351339
17	Tubular Condenser (.01 mfd.)....	30-4572	40	Tone Control (1.0 meg.).....	33-5320
18	Mica Condenser (250 mmfd.).....	30-1032	41	Tubular Cond. (.008 mfd.).....	30-4591
19	Resistor (1.0 meg., 1/2 watt)....	33-510339	42	Tubular Cond. (.05 mfd.).....	30-4519
20	Tubular Condenser (.003 mfd.)....	30-4582	43	Motor Switch.....	
21	Output Transformer.....	32-7980	44	Tubular Cond. (.04 mfd.).....	30-4119
22	Cone & Voice Coil Assembly			Bezel Assembly (Dial).....	56-1305
	Speaker No. 36-1473-3.....	36-4120		Bezel Clamp.....	28-5153
	Speaker No. 36-1440-3.....	36-4086		Knobs.....	27-4632
23	Resistor (50 ohms, 1/2 watt)....	33-050339		Manual Tab.....	27-5460
24	Resistor (250 ohms, 1/2 watt)....	33-125339		Push-button.....	27-4702
25	Electrolytic Cond.			Station tab holder.....	28-5661
	(Run 1- 6 mfd., 450 V.).....	30-2265		Visor Screen.....	27-5468