

MODEL 40-510, Code 121

RADIO-PHONOGRAPH SPECIFICATIONS

Model 40-510 is a radio-phonograph combination assembled in a console cabinet consisting of a 12 tube, wireless remote control superheterodyne radio receiver and a Deluxe Inter-Mix Record Changer.

The specifications for this model are the same as those contained on page 70 for Model 40-205 with the exception of the power consumption, record changer, cabinet type. The wireless remote control circuit will automatically tune in seven broadcast stations and operate the automatic phonograph mechanism. The adjustment procedures for the R. F. and I. F. compensating condensers and wireless remote control circuits will be found on page 75 for Model 40-205. The adjustment procedure for reception of stations by wireless remote control is the same as that also covered on page 76 for Model 40-205 with the exception that No. 8 position is used for phonograph. This position is already connected and will not need adjustment.

POWER CONSUMPTION: 220 Watts.

CABINET DIMENSIONS: 38 1/8" High; 40 1/2" Wide; 21" Deep.

The Deluxe Inter-Mix Record Changer plays fourteen 10" and 12" records intermixed, fifteen 10" or thirteen 12" records at one loading. The record changer can be operated manually or from the wireless remote control circuit of the radio receiver. When using the wireless remote control to operate the phonograph, the Inter-Mix Record Changer can be started and stopped, records rejected and volume adjusted, from the remote control unit. The automatic record changer is selected by dialing "PHONO" position. This operates relay (112) which pulls "Radio-Phono" switch (109) to the "PHONO" position. Records are also rejected by dialing the "PHONO" position on the wireless remote control unit. Phono relay (112) is connected to No. 8 contact of the pilot lamp section of rotary switch (52). The service information for the Inter-Mix Record Changer will be found on page 119. Operating instructions for the phonograph mechanism is covered in the instructions Part No. 39-6408 supplied with each set.

The replacement parts and schematic diagram for this model are listed herein.

Replacement Parts — Model 40-510

SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.
1	Resistor (1.0 meg., 1/2 watt)	33-510339	60F	Compensator No. 6		MISCELLANEOUS PARTS		
1X	Tubular Cond. (.05 mfd.)	30-4519	60G	900-1470 K.C., Part of 60		Automatic Record Changer Complete		
2	Resistor (330,000 ohms, 1/2 watt)	33-113139	60H	Compensator No. 8		Arm (Operating Auxiliary Switch)		
2X	Mica Cond. (200 mfmf.)	30-1078	61	1170-1600 K.C., Part of 60		Beezel		
3	Tubular Cond. (.05 mfd.)	30-1278	61A	Oscillator Coil No. 1		Eject Gasket Assembly		
3A	R. F. Trans. Assy.	32-3282	61B	Oscillator Coil No. 2	32-3042	Cable (Chassis to Changer)		
3B	Resistor (12,000 ohms, 1/2 watt)	33-112039	61C	340-1030 K.C.		Cabinet and Plug Assembly (Pilot Lamp)		
4	Mica Cond. (250 mfmf.)	30-1022	61D	Oscillator Coil No. 3		Cable and Plug (Power Supply)		
5	Resistor (32,000 ohms, 1/2 watt)	33-322339	61E	Oscillator Coil No. 4	32-3042	Drive Cord Tuning Condenser		
5X	Oscillator Trans.	32-3278	61F	870-1160 K.C.		Dial		
6	Compensator	31-6230	61G	Oscillator Coil No. 5	32-3042	Drive Cord Pointer		
7	Mica Cond. (15 mfmf.)	30-1129	61H	Oscillator Coil No. 6	32-3041	Disc (Tuning)		
8	Resistor (10,000 ohms, 1/2 watt)	33-110339	61I	Oscillator Coil No. 7	32-3041	Disc (Tone Control)		
9	Resistor (5,000 ohms, 2 watts)	33-205339	61J	Oscillator Coil No. 8	32-3041	Disc (Volume Control)		
10	Resistor (13,000 ohms, 1 watt)	33-113439	62	1170-1600 K.C.	32-3041	Disc (Wave Switch)		
11	Electricity Cond. (4 mfd., 250 V.)	30-2334	62X	Silver Mica Cond. (370 mfmf.)	32-3041	Escutcheon Plate (Radio Phone)		
12	Tubular Cond. (.05 mfd.)	30-4123	63	Silver Mica Cond. (370 mfmf.)	30-1110	Jewel Pilot Light		
13	1st I. F. Trans. Assy.	32-3089	63A	Spark Filter Assy. (370 mfmf.)	32-3276	Knob (Radio Phone Switch)		
14	2nd I. F. Trans. Assy.	32-2845	63B	Spark Filter Choke	32-110339	Pilot Lamp Assembly (R. H. Bracket)		
15	Mica Cond. (110 mfmf.)	30-1031	63C	Resistor (100 ohms, 1/2 watt)	30-4444	Pilot Lamp Assembly (Station Lights)		
16	Tubular Cond. (.01 mfd.)	33-520339	63D	Tubular Cond. (.05 mfd.)	30-4444	Socket Assembly (Bull's-eye Jewel)		
17	Resistor (1.0 meg., 1/2 watt)	33-510339	64	Tubular Cond. (.05 mfd.)	30-4444	Socket (6 prong, type 8D tube)		
18	Mica Cond. (102 mfmf.)	30-4479	65	Resistor (150 ohms, Wirewound)	31-5536	Socket (6 prong, type 42 and 78 tubes)		
19	Resistor (2.0 meg., 1/2 watt)	33-520339	66	Electricity Cond. (18 mfd., 150 V.)	32-1281	Socket (7 prong, Octal, 6J7G tube)		
20	Resistor (70,000 ohms, 1/2 watt)	33-370339	67	Choke Coil	30-4123	Speaker		
21	Volume Control (.20 meg.)	33-3200	68	Tubular Cond. (.05 mfd.)	30-4499	Spring (Drive Cords)		
22	Tubular Cond. (.004 mfd.)	30-4334	71	Tubular Cond. (.05 mfd.)	30-4499	Screw (Beezel)		
23	Resistor (1.0 meg., 1/2 watt)	33-510339	72	Tubular Cond. (.05 mfd.)	30-4531	Tone Arm Assy. Com. (Record Changer)		
24	Tone Control (.05 meg.)	33-5287	73	Resistor (51,000 ohms, 1/2 watt)	33-251339	Turntable Assy. (Record Changer)		
25	Resistor (330,000 ohms, 1/2 watt)	33-433339	74	No. 3 Control Amp. Coil	32-3275	Tab Television		
26	Resistor (490,000 ohms, 1/2 watt)	33-449339	75	Tubular Cond. (.02 mfd.)	30-4516	Washer (Keyed Washer, Tuning Disc)		
27	Volume Control (.03 mfd.)	30-4517	76	Resistor (120,000 ohms, 1/2 watt)	33-433339	Washer (Spring Washer, Tuning Disc)		
28	Tubular Cond. (.015 mfd.)	30-4358	77	Tubular Cond. (.01 mfd.)	30-4455			
29	Resistor (99,000 ohms, 1/2 watt)	33-389339	78	Resistor (150,000 ohms, 1/2 watt)	33-413339			
30	Resistor (130,000 ohms, 1/2 watt)	33-433339	79	Resistor (99,000 ohms, 1/2 watt)	33-399339			
31	Tubular Cond. (.03 mfd.)	30-4445	80	Tubular Cond. (.05 mfd.)	30-4123			
32	Resistor (390,000 ohms, 1/2 watt)	33-235339	81	Resistor (1.5 meg., 1/2 watt)	33-515339			
33	Tubular Cond. (.01 mfd.)	32-7997	82	No. 2 Control Amp. Coil	32-3087			
34	Output Trans. Coil Assy.	32-6089	83	Tubular Cond. (.05 mfd.)	33-227339			
35	Cone and (Sphr. Part No. 38-1450-2)	36-4089	84	Tubular Cond. (.05 mfd.)	30-4444			
36	(Sphr. Part No. 38-1450-4)	36-4111	85	Resistor (300 ohms, 1/2 watt)	33-130339			
37	Resistor (3000 ohms, 1/2 watt)	33-230339	86	Resistor (1.5 meg., 1/2 watt)	32-3086			
38	Tubular Cond. (.03 mfd.)	30-4445	87	Resistor (155 mhm, 1/2 watt)	31-1112			
39	Resistor (1.0 meg., 1/2 watt)	33-510339	88	No. 1 Control Amp. Coil	31-4268			
40	Electricity Cond. (1 mfd., 300 V.)	30-2200	89	Secondary Inductor	32-1112			
41	Bias Resistor (Wirewound)	33-3361	90	Wave Switch	42-1454			
42	Field Coil (Radio Spkr., 28 V.)	30-2200	91	Tuning Cond.	31-2311			
43	Field Coil (Radio Spkr., 28 V.)	30-2200	92	Part of Tuning Condenser (95)				
44	Power Trans. (115 V., 50-60 cycles)	32-7999	93A	Part of Tuning Condenser (95)				
45	Power Trans. (115 V., 28-40 cycles)	32-8013	94	Loop Series Transformer	38-0882			
46	Capacitor (.05 mfd., 115 V. Plug)	30-4576	95	Mica Cond. (Radio Spkr.)	32-3226			
47	Pilot Lamp Resistor (16 ohms, 1 watt)	33-018431	96	Phono-Motor (115 V., 60 cycle)	38-1177			
48	Flament Trans. (115 V., 28-40 cycles)	32-8016	97	Adjust Magnet (Record Changer)	42-1852			
49	Flament Trans. (115 V., 28-40 cycles)	32-8016	98	Arm. Parafilm Switch (Record Changer)	42-1853			
49A	Pilot Lamp (Dia)	32-1281	99	Terminal Panel (Record Changer)	W-2100			
50	Motor, Trans. (115 V., 50-60 cycles)	32-7999	100	Resistor (150,000 ohms)	33-415339			
51	Volume Control Motor Assy.	32-1181	101	Resistor (150,000 ohms)	33-415339			
52	Relay Switch	32-1113	102	Resistor (150,000 ohms)	33-415339			
53	Bias Resistor (Wirewound, 10 ohms)	33-3362	103	Crystal Pick-up (Tone Arm Reject Switch)	38-0319			
54	Pilot Lamp (150 ohms, 1/2 watt)	34-205339	104	Resistor (150,000 ohms)	33-415339			
55	Volume Control (Motor Control)	42-1468	105	Resistor (150,000 ohms)	33-415339			
56	Tubular Cond. (.1 mfd.)	30-4489	106	Pick-up Cable (Chassis)	41-3496			
57	Tubular Cond. (.1 mfd.)	30-4489	107	Remode. Phono Switch (Operate from Relay 112, mounted in chassis)	42-1826			
58X	Stepper Unit Complete	38-0882	108	Auxiliary Range Sw. (Cam)	42-1833			
59	Compensator No. 1	31-6284	109	Relay Part 109 (Remode. Remote Phono Radio Switch 109)	42-1833			
60	840-1030 K.C., Part of 60		110	Compensator No. 5	31-6284			
60C	Compensator No. 4		111					
60D	870-1160 K.C., Part of 60		112					
60E	Compensator No. 3		113					

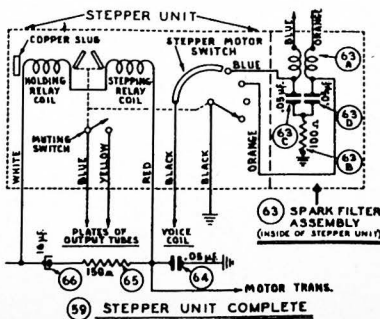


FIG. 2. INTERNAL WIRING OF STEPPER UNIT. NUMBERS CORRESPOND TO SCHEMATIC.

