

# MODELS 40-525, 40-526 and 40-527

## RADIO-PHONOGRAPH

### SPECIFICATIONS

#### MODEL 40-525

Model 40-525 is a combination radio-phonograph consisting of a six tube electric push-button tuning superheterodyne radio receiver and an automatic record changer. The radio receiver contains six (6) electric push-buttons; five (5) of the push-buttons are used for reception of stations and one (1) to select manual tuning (Dial). The Specifications with the exception of those listed below are the same as Model 40-135. The instructions for alignment of the R. F. and I. F. compensating condenser in addition to the procedure for adjusting the electric push-buttons will also be found on page 9.

The Automatic Record Changer, Philco Part No. 35-1180, plays twelve 10-inch records or ten 12-inch records at one loading. Service information for the mechanical adjustments of the changer will be found on page 123.

The circuit diagram and replacement parts are listed herein.

#### CABINET DIMENSIONS:

Height, 3 3/4". Width, 26 3/4". Depth, 16 3/4".  
POWER CONSUMPTION: 60 watts.

#### MODEL 40-526, Code 121

Model 40-526, Code 121, is similar to Model 40-525, Code 121, with the exception of the cabinet and phonograph mechanism. A manually operated tone arm and pick-up is used in the Model 40-526. The same radio set is incorporated in both models.

The circuit diagram and replacement parts for Model 40-525, Code 121, apply also to Model 40-526. There are several part changes, however, which differ from those of Model 40-525. These parts are as follows:

#### MODEL 40-527, Code 121

Model 40-527, Code 121, is similar to Model 40-525, Code 121, with the exception of the cabinet, speaker and several parts. The service information for the Model 40-525, Code 121, also applies to Model 40-527, Code 121.

### REPLACEMENT PARTS — Models 40-525, 40-526, 40-527

SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.	SCHE. No.	DESCRIPTION	PART No.
1	Loop Assembly	38-9897	36	Electrolytic Condenser (4 mfd., 400 V.)	30-2401		Spring (Cond. Drive Cord)	28-6751
1A	Compensator	31-6308	37	Electrolytic Condenser (12-20 mfd., 475 V.)	30-2437		Spring (Pointer Drive Cord)	28-8953
1B	Mica Condenser (250 mmfd.)	61-0033	38	Resistor (39 ohms, 1/2 watt)	33-039339		Spring (Tuning Shaft Assy.)	28-8955
2	Mica Condenser (250 mmfd.)	61-0033	39	Resistor (220 ohms, 1 watt)	33-122431		Speaker	36-1480
3	Mica Condenser (1120 mmfd.)	30-1140	40	Power Transformer (115 V., 50-60 cycles)	32-8064		Sockets	55-0575
4	Tubular Condenser (.05 mfd.)	30-4518	41	Bakelite Cond. (.01-.01 mfd.)	3903-DG		Tab (Dial)	27-5528
5	Resistor (1.0 meg., 1/2 watt)	33-510339	42	Pilot Lamps	34-2064		Tab (Television)	27-9450
6	Tubular Condenser (.05 mfd.)	30-4518	43	Wave Switch	42-1494		Tab Kit (Station Call Letters)	40-6473
7	Resis. (270,000 ohms, 1/2 watt)	33-427339	44	Pushbutton Switch	42-1528			
8	R. F. Transformer	32-8283	45	Padder Strip	31-6315			
9	Tuning Condenser	31-2374	46	Motor Switch	42-1548			
10	Resistor (5600 ohms, 1/2 watt)	33-256339	47	Motor (110 volts, 60 cycles)	35-1204			
11	Resist. (47,000 ohms, 1/2 watt)	33-347339	48	Switch (Part of 46)				
12	Mica Condenser (250 mmfd.)	61-0033	49	Crystal Cartridge (Pickup)	35-2030			
13	Tubular Condenser (.05 mfd.)	30-4518	50	Pickup Cable Assembly				
14	Tubular Condenser (.05 mfd.)	30-4518		Switch Section	41-3508			
15	Resist. (10,000 ohms, 1/2 watt)	33-310339		Changer	318-1775			
16	Mica Condenser (250 mmfd.)	61-0033	51	Radio-Phono Switch	42-1551			
17	Oscillator Transformer	32-3212	52	Cable (Radio-Phono Switch)	L-3217			
18	1st I. F. Trans. Assembly	32-3210	53	Condenser (.05 mfd.)	30-4518			
19	Resistor (27,000 ohms, 1 watt)	33-327439						
20	Resistor (1,000 ohms, 1/2 watt)	33-210339						
21	2nd I. F. Trans. Assembly	32-3281						
22	Resistor (2.2 meg., 1/2 watt)	33-522339						
23	Tubular Condenser (.01 mfd.)	30-4572						
24	Volume Control (.5 meg.)	33-5332						
25	Resistor (4.7 meg., 1/2 watt)	33-547339						
26	Mica Condenser (250 mmfd.)	61-0033						
27	Tubular Cond. (.004 mfd.)	30-4578						
28	Resistor (1.0 meg., 1/2 watt)	33-510339						
29	Resis. (330,000 ohms, 1/2 watt)	33-433339						
30	Tubular Cond. (.006 mfd.)	30-4445						
31	Tubular Condenser (.02 mfd.)	30-4481						
32	Tone Control & On-Off Switch	42-1520						
33	Output Transformer	32-8063						
34	Cone & Voice Coil Assembly: For Speaker 36-1480-3	36-4086						
35	Field Coil (Replace Spkr. Part No. 36-1480)							

#### MOUNTING PARTS

Nail Escutcheon Mounting	W-1074
Nut Speaker Mounting	W-124FA3
Nut Phono Switch Mtg.	W-684FA4
Screw (Chassis Mounting)	W-2068
Screw (Speaker Plug)	W-1714
Washer (Chassis Mounting)	W-410FA3
Washer (Speaker Mounting)	27-7467
"C" Washer (Tuning Shaft)	28-2043

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21	2nd I. F. Transformer Assembly	32-3382
46	Motor Switch	42-1536
47	Motor (110 volts, 60 cycles)	35-1225
48	Switch (pick-up shorting—is not used in Model 40-526)	

#### MISCELLANEOUS PARTS

Automatic Record Changer	35-1180
Cabinet	10452-A
Cable (Power)	L-3199
Cable (Speaker)	41-3329
Cable (Radio-Phono)	L-3217
Dial Scale	27-5506
Drive Cord (Pointer Drive)	31-2399
Drive Cord (Cond. Drive)	31-2400
Drive Drum (Tuning)	38-9883
Escutcheon (Station Tabs)	28-5742
Knobs (Vol., Tone., Wave Sw.)	27-4332
Knob (Pushbutton Switch)	27-4824
Knob (Phono Off-On)	27-4627
Pilot Light Socket Assy.	38-9904
Pointer	56-1532
Shaft (Tuning)	318-1506

### PRODUCTION CHANGES

#### MODEL 40-525

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To prevent oscillation at the low end of the Broadcast Band, the 2nd I. F. Transformer (21) Part No. 32-3281 is changed to Part No. 32-3382.

To stabilize the R. F. circuit and prevent oscillation, the cathode of the 7C7 R. F. tube is removed from the common connection of the R. F., I. F. and converter cathodes and connected directly to the ground. See diagram on page 9. Sets with this change marked "Run No. 3".

#### MODELS 40-525, 40-526

The cabinet and speaker of these models were changed in later production. The part number changes are as follows:

Cabinet Model (40-526)	Early Production	Later Production
Cabinet Model (40-525)	10452A	10452C
Baffle and Silk Assembly	40452B	40452C
Speaker	36-1480	36-1491
Cone and Voice Coil Assembly (For Speaker 36-1480-3)		36-4088
(For Speaker 36-1480-4)		36-4136
(For Speaker 36-1491-2)		40-6182
(For Speaker 36-1491-4)		36-4147

