

MODEL 41-231, CODE 121

SPECIFICATIONS

Model 41-231 is a six (6) tube alternating current (A.C.) or direct current (D.C.) operated superheterodyne radio, employing electric push-button tuning in addition to manual tuning.

Additional features included in this model are: Philco Built-in American and Overseas Aerial system; Philco loktal tubes; New noise reducing converter tube [Type XXD]; two I. F. stages; Automatic volume control; Beam power audio output stage, and a dustproof speaker.

ELECTRIC PUSH-BUTTON TUNING: The electric push-button mechanism consists of six (6) push-buttons. One push-button is used to turn the power "on" and "off", and five (5) push buttons automatically tune in stations. The procedure for adjusting and operating the push-buttons will be found in instruction, Part No. 39-7149, supplied with the radio.

INTERMEDIATE FREQUENCY: 455 K.C.
TUNING RANGES: 540 to 1720 K.C.; 9 to 12 M.C.

AUDIO OUTPUT: 1 watt.

POWER SUPPLY: 115 volts A.C. or D.C.

PHILCO TUBES: XXD, Converter; two 7B7, I. F. amplifiers; 7C6, POWER CONSUMPTION: 35 watts.

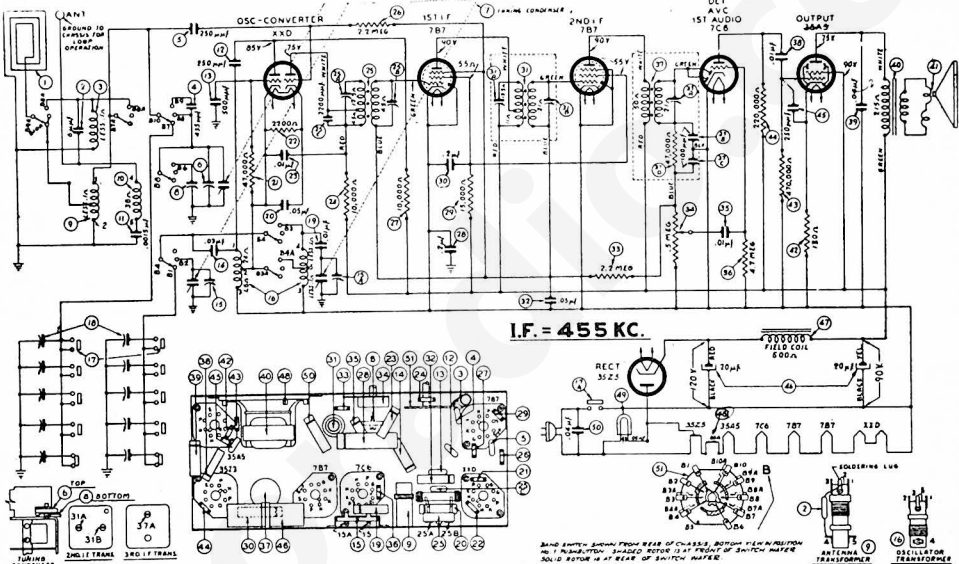
Second detector; A. V. C., first audio; 50L6GT, audio output; and a 35Z5, rectifier.

CABINET DIMENSIONS: Height, 9 $\frac{3}{8}$ " ; Width, 15 $\frac{5}{8}$ " ; Depth, 6 $\frac{5}{8}$ "

OUTSIDE AERIAL: Connections are also provided on the rear of the chassis for an outside aerial to be used in locations such as steel reinforced buildings, and other shielded locations where signal strength is weak. For installations requiring an outside aerial the PHILCO aerial, Part No. 40-6370, is recommended.

ALIGNING R. F. AND I. F. COMPENSATORS

The procedure for aligning the R. F. and I. F. compensators is the same as that given on page 61 for Model 41-226



REPLACEMENT PARTS — MODEL 41-231

SCHEMATIC DIAGRAM MODEL 41-231

SCHEM. No.	DESCRIPTION	PART No.	SCHEM. No.	DESCRIPTION	PART No.	SCHEM. No.	DESCRIPTION	PART No.
①	Loop Aerial	70-1102	③	Resistor (2.2 megohms)	33-52339			
②	Condenser (.8 mfd.) Mounted on 9	60-006177	④	Resistor (10,000 ohms, ½ watt)	33-310339			
③	Aerial Transformer (Short Wave)	32-3523	⑤	Condenser (.2 mfd., 200 volts)	30-4536			
④	Condenser (.45 mfd.)	30-1185	⑥	Resistor (15,000 ohms, ½ watt)	33-315339			
⑤	Condenser (250 mfd.)	60-125157	⑦	Condenser (.2 mfd., 400 volts)	30-4594			
⑥	Compensator (Broadcast-Aerial)	31-6367	⑧	2nd I. F. Transformer	32-3509			
⑦	Tuning Condenser	31-2523	⑨	Condenser (.05 mfd., 200 volts)	30-4519			
⑧	Sleeve Mounting	28-5533	⑩	Resistor (2.2 megohms)	33-52339			
⑨	Compensator (Short Wave Aerial)	31-6397	⑪	Volume Control	33-5411			
⑩	Aerial Transformer (Broadcast)	32-3047	⑫	Nut	W-2157			
⑪	Aerial Transformer	Part of 30-4555	⑬	Condenser (.01 mfd., 400 volts)	30-4572			
⑫	Condenser (.0015 mfd., 400 volts)	30-4555	⑭	Resistor (4.7 megohms)	33-547339			
⑬	Mica Condenser (250 mfd.)	60-125157	⑮	3rd I. F. Transformer	32-3510			
⑭	Mica Condenser (500 mfd.)	60-150157	⑯	Condenser (.01 mfd., 400 volts)	30-4572			
⑮	Condenser (.03 mfd.)	30-4517	⑰	Condenser (.01 mfd., 400 volts)	30-4119			
⑯	Comp. (Oscillator-Broadcast) Dial Sec.	31-6355	⑱	Output Transformer	32-8144			
⑰	Oscillator Transformer	32-3658	⑲	Cone Assembly (For Speaker 36-1512-B)	36-4167			
⑱	Push-button Switch	42-1591	⑳	Resistor (130 ohms, ½ watt)	33-113339			
⑲	Sleeve Mounting	28-5533	㉑	Resistor (470,000 ohms, ½ watt)	33-417339			
⑳	Push-button Padler Strip	31-6381	㉒	Resistor (220,000 ohms, ½ watt)	33-422339			
㉑	Condenser (.01 mfd., 400 volts)	30-4572	㉓	Mica Condenser (250 mfd.)	60-125157			
㉒	Condenser (.05 mfd., 200 volts)	30-4519	㉔	Electrolytic Condenser (20-20 mfd.)	30-2401			
㉓	Resistor (47,000 ohms, ½ watt)	33-347339	㉕	Field Coil (Replace Speaker 36-1512)	36-4167			
㉔	Resistor (2,200 ohms, ½ watt)	33-22339	㉖	Resistor (80 ohms)	33-2406			
㉕	Condenser (.01 mfd., 400 volts)	30-4572	㉗	Pilot Lamp	34-2068			
㉖	Resistor (10,000 ohms, ½ watt)	33-310339	㉘	Condenser (.04 mfd., 400 volts)	30-4119			
㉗	1st I. F. Transformer	32-3508	㉙	Band Switch	42-1598			

PRODUCTION CHANGES

Model 41-231 changes: Dial scale changed from Part No. 27-5701 to No. 27-5678.

To improve the reproduction of the high frequency audio output, condenser (39) .04 mfd., Part No. 30-4119, changed to .02 mfd., Part No. 30-4516.

Correction: Model 41-231, replacement parts list, Resistor (36) 4.7 meg ohms, Part No. 33-547339 should read 3.3 meg ohms, Part No. 33-533339. Change resistor (44), 220,000 ohms, Part No. 33-422339 to read 470,000 ohms, Part No. 33-447339. Change socket assembly (pilot lamp) from Part No. 76-1234 to No. 76-1178.