

Model 1041-A

Radio Receiver



Specifications

Frequency Range:
(Three Bands)

Broadcast: 535 to 1715 K.C.
No. 1 S.W.: 1.7 to 5.6 M.C.
No. 2 S.W.: 5.7 to 15.6 M.C.

I.F.:

470 K.C.

Tubes:

Type	Position
6SA7	First Detector
6SK7 (2)	1st & 2nd I.F.
6SQ7	2nd Det., A.V.C.; 1st A.F. Amp.
6J5	Oscillator
6J5	Phase Inverter
6F6G (2)	Output
6U5	Tuning Eye
5Y4G	Rectifier

Power Supply:

105-125 volts
25-60 cycles, 94 watts

A.V.C.:

On 6SA7 1st Det., 6SK7 1st I.F. and part on 6SK7 2nd I.F.

Controls:

3 (not including push-buttons) (1) Tuning;
(2) Volume; (3) Fidelity.

Power Output:

Eight Watts

Push Buttons:

Ten providing six auto. tuned stations with 3 buttons for band switches and tenth for switching power off.

Loudspeaker:

10" E.D.

Audio:

First A.F. (6SQ7) Res. Cap. coupled to phase inverter 6J5 Tube. Latter similarly coupled to two 6F6G tubes in push-pull.

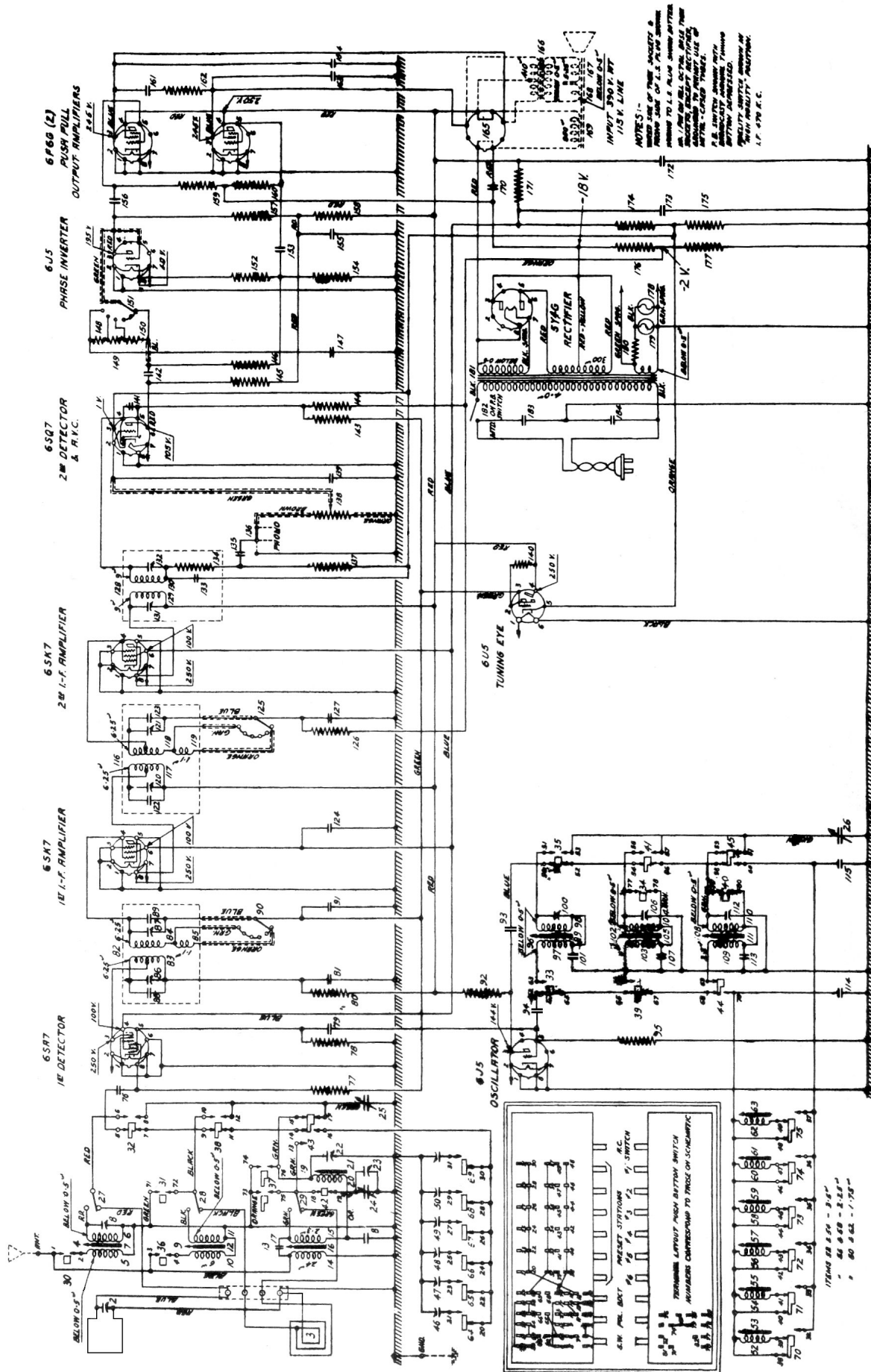
Antennae:

Rotatable loop with connections for external antenna

Dimensions:

Chassis:—Length 18-3/4"; Breadth 6-3/4" (including flanges); Depth: 3-3/4".
Cabinet: Height 36", Length 35", Depth 14-3/16".

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REPLACEMENT PARTS LIST

Item	Description	Part No.	Item	Description	Part No.
1	Short-Wave Loop	K-5163-4	137	Resistor 1/2 meg. 1/2 W.	K-2226-3
2	Trimmer S.W. Loop	K-1458-8	138	Vol. Control: 2.0 meg	K-3858-7
3	Broadcast Loop	K-5146-2	142	Capacitor .02 mf. 400 V.	K-2228-7
4 to 7	Ant. Trans. Short-Wave	K-4665	145	Resistor .25 meg. 1/2 W.	K-2226-4
8	Trimmer Short-Wave	K-1458-6	147-163-164	Cap. .001 mf. 400 V.	K-2228-1
9 to 12	Ant. Trans., Police	K-5142	148-149	Resistor .15 meg. 1/2 W.	K-2226-36
13 to 17	Ant. Trans., Broadcast	K-3831-6	150	Resistor .2 meg. 1/2 W.	K-2226-67
18-19-127	Capacitor, .05 mf. 200 volt	K-2227-8	152	Resistor 2,500 ohm 1/2 W.	K-2226-13
19 to 21	Preselector (Broadcast)	K-5310	153	Capacitor .1 mf. 200 V.	K-2227-9
22	Trimmer, preselector	K-1458-5	154	Resistor 15,000 ohm. 1/2 W.	K-2226-9
23-25	Trimmer (on gang) 3-25 mmf.	K-1458-6	155	Capacitor 20.0 mf. 350 V.	K-5309
24-26	Tuning gang, 3 sect. Max. 530 mmf.	K-5264	157	Resistor 15,000 ohms 1/2 W.	K-2226-9
27-28-29	Loop Switch	K-2675-3	158	Resistor 5,000 ohms 1/2 W.	K-2226-12
30 to 35	S.W. Pushbutton	K-5103	159-160	Resistor .1 meg. 1/2 W.	K-2226-5
36 to 41	Police Pushbutton		161	Capacitor .003 mf. 400 V.	K-2228-3
42 to 45	Bdcast. Pushbutton		165	Speaker Socket	K-1924-1
46	Trimmer P.B., 16-72 mmf.	K-1458-8	166	Output Transformer	K-2718-15
47	Trimmer P.B., 32-205 mmf.	K-1458-9	167	Voice Coil (& Diaphragm)	K-5429
48-49	Trimmer P.B., 92-280 mmf.	K-1458-10	168-169	Field Coil (& hum coil)	K-5428
50	Trimmer P.B., 105-405 mmf.	K-1458-11	170	Filter, 16 mf. W.E.	K-5308
51	Trimmer P.B., 155-535 mmf.	K-1458-12	171	Resistor 5400 ohm, vit. en.	K-4300-11
52 to 55	Coil and Cores	K-4980-1	172	Filter 20 mf. 350 V.	K-5309
56 to 59	Coil and Cores	K-4980-2	173	Filter 20 mf. 150 V.	K-5309
60 to 63	Coil and Cores	K-4980-3	174	Resistor 7500 ohm, 2 W.	K-3352-9
64 to 69	Switches, P.B. (Ant.)	K-5103	175	Resistor 75 ohm, 1/2 W.	K-2226-40
70 to 75	Switches, P.B. (Osc.)		176	Resistor 125 ohm, 2 W.	K-3352-10
76	Capacitor: 1000 mmf. Mica		177	Resistor 15 ohm, 1/2 W.	K-2226-63
77-143	Resistor: 2.0 meg. 1/2 Watt	K-1611-23	178-179	Dial Lights	K-2589-3
78	Resistor 20,000 ohm, 1/2 Watt	K-2226-8	180	Resistor 1.3 ohm W/W	K-2252-17
79-93-94-133-139-141	Cap. 100 mmf. Mica	K-1611-2	181	Power Trans. 25-60 cycle	K-3242-5
80	Resistor, 1000 ohm, 1/2 Watt	K-2226-16	182	A-C ON-OFF Switch	Part of K-5103
81	Capacitor, .05 mf. 400 Volt	K-2228-8	183-184	Line Filter .025 mf. (dual)	K-5073
82	First I-F complete	K-5311	MISCELLANEOUS:		
83-84-85	Coil K-5312; 86-87 Trimmers	K-2134-3	Loudspeaker less Output Trans.		
88-89-122-123	Capacitor 200 mmf. Mica	K-1611-3	Tube Sockets		
90-125-151	Fidelity Switch	K-4152-3	Elec. Capacitor Socket		
92-162	Resistor 20,000 ohm, 1 Watt	K-1870-16	Terminal Strip (A-Loops)		
95-134	Resistor, 50,000 ohm, 1/2 Watt	K-2226-6	Dial Frame		
96-99	S.W. Oscillator Coil	K-5077	Idle Pulleys		
100	Trimmer: 3-25 mmf.	K-1458-6	Dial Indicator		
101	Capacitor 3100 mmf. Mica	K-1952-23	Dial Cable 5' (Order by ft.)		
102 to 105	Police Band Oscillator Coil	K-5110	Dial Cable Spring		
106	Trimmer: 3-25 mmf.	K-1458-6	Dial Scale		
107	Capacitor: 1460 mmf. Mica	K-1952-21	Drive Shaft		
108 to 111	Broadcast Osc. Coil	K-5075	Flywheel		
112	Trimmer: 3-25 mmf.	K-1458-6	Lamp Socket		
113	Capacitor 500 mmf. Mica	K-1611-7	T.E. Socket		
114	Capacitor: 300 mmf. Mica	K-4144-6	Antenna-Loop Switch		
115	Capacitor: 370 mmf. Mica	K-4144-1	Speaker Plug		
116	Second I-F complete	K-5313	Chassis Mounting Screw		
117-118-119	Coil K-5134; 120-121 Trimmers	K-2134-3	Knob, Tuning		
124-156	Capacitor .1 mf. 400 Volt	K-2228-9	Knob, Volume		
126-140-144-146	Resistor 1.0 meg. 1/2 Watt	K-2226-2	Knob, Fidelity		
128	Third I-F complete	K-5315	Knob, Push-Button		
129-130	Coil, K-5316; 131-132 Trimmers	K-2134-3	Knob, Ant. Loop Switch		
135	Capacitor: .02 mf. 200 V.	K-2227-7	Station Names		
136	Phono-Radio Strip (A&G)	K-2986	Phono-Link		
			Single Stand-Off		
			Double Stand-Off		
			Dial Escutcheon		
			P.B. Escutcheon		
			Instructions - English		
			Handle for Loop		

REALIGNING DETAILS**I.F.**

- (a) With .1 mf. capacitor in signal generator lead, and generator adjusted to 470 K.C. connect to type 6SA7 first detector grid.
- (b) Adjust trimmers, items 86, 87, 120, 121, 131 and 132.

WITH CHASSIS OUT OF CABINET AND LOOPS DISCONNECTED**R-F MANUAL BROADCAST:**

- (a) Close gang; dial pointer should cover top and bottom etched lines on dial frame and top bar at extreme left. Place loop switch in "external" position (knob turned to left). With 100 mmf. capacitor in generator lead and connected to antenna terminal, set generator and receiver to 600 K.C. (Pointer should then be at second etched line at bottom of frame). Push in "Broadcast-Manual" tuning button, third button from right. Adjust oscillator core, item 111, preselector core, item 21; antenna transformer core, item 16.
- (b) Set generator and receiver to 1600 K.C. (Pointer should then be at fourth etched line at bottom of frame) Adjust preselector trimmer, item 22, antenna trimmer, item 23 (on gang).
- (c) Recheck items 111, 21 and 16 on 600 K.C. Check 1000 K.C. with pointer at third etched line (beside T.E. opening) from left at bottom of dial frame for output and tune.

R-F MANUAL-SHORT WAVE NO.1

- (a) Police Band: Press "police" pushbutton (second from right). Connect generator to antenna terminal and set generator and receiver to 2.0 M.C. (Pointer should cover third etched line from left on dial frame bar). Adjust oscillator core, item 105 (inner coil of three placed upright in chassis). Adjust antenna transformer core, item 12 (centre of three cores on chassis front).
- (b) Set generator and receiver to 5.0 M.C. (Pointer should cover sixth etched line from left on dial frame bar). Adjust oscillator trimmer, item 106 (on top of centre coil, rocking gang while doing so).
- (c) Recheck items 105 and 12 on 2.0 M.C. Check at 3.0 M.C. with pointer at fourth etched line from left on dial frame bar, for output and tune.

R-F MANUAL-SHORT WAVE NO.2

- (a) Short Wave: Press S.W. button - first button on right. With 400-ohm carbon resistor in generator lead, connect to antenna terminal. Set generator and receiver to 6.0 M.C. (Pointer should cover second etched line from left on top frame bar). Adjust oscillator core, item 99 and antenna core item 7.
- (b) Set generator and receiver to 15.0 M.C. (Pointer should cover last etched line to right on dial frame bar). Adjust oscillator trimmer, item 100. Adjust antenna transformer trimmer, item 8 (on top of antenna coil), rocking gang while doing so.
- (c) Check at 10.0 M.C. with pointer over fifth etched line from left on dial frame bar, for output, and tune.

WITH CHASSIS IN CABINET AND LOOPS CONNECTED**R-F MANUAL-BROADCAST:**

- (a) Place switch at "loop" position (arrow knob turned to right or towards you) and press in "Broadcast-Manual" button (third button from right). Locate generator leads close to receiver but do not attach. Set generator at 800 K.C. and control output until signal is heard. Disconnect one of the two brown insulated flexible leads from loop (likely near fifth turn on right hand section of loop, with loop shaft turned to extreme right). (The other end of this lead is soldered to a terminal fitted to top of loop). Attach a clip to the end just removed from the loop then run up and down this fifth loop turn until a peak output signal is obtained. Solder lead to loop turn at peak point.

R-F MANUAL-SHORT WAVE: POLICE BAND:

With the loop still turned to the extreme right, locate the second of the two brown insulated leads referred to under "Broadcast" and unsolder the end attached to the loop (likely on or near fourth turn of second section of loop; section nearest cabinet wall). Attach a clip to it and run up and down this second section fourth loop turn until peak passed. Solder lead to peak point.

R-F MANUAL-SHORT WAVE: NO.2 BAND:

Still with loop switch at "Loop" position and with generator leads radiating but not connected, set generator and receiver to 15.0 M.C. Press in S.W. Manual button (extreme right). Adjust trimmer item 2 on left of S.W. loop located at top side of cabinet. Rock gang while doing this. Check for image by swinging generator to 15.94 M.C.

PUSH-BUTTON ADJUSTMENTS:

Refer to Instruction Folder accompanying receiver.