

ASSEMBLING  
AND USING  
YOUR . . . . .

**Heathkit**

SIGNAL  
GENERATOR  
MODEL SG-7

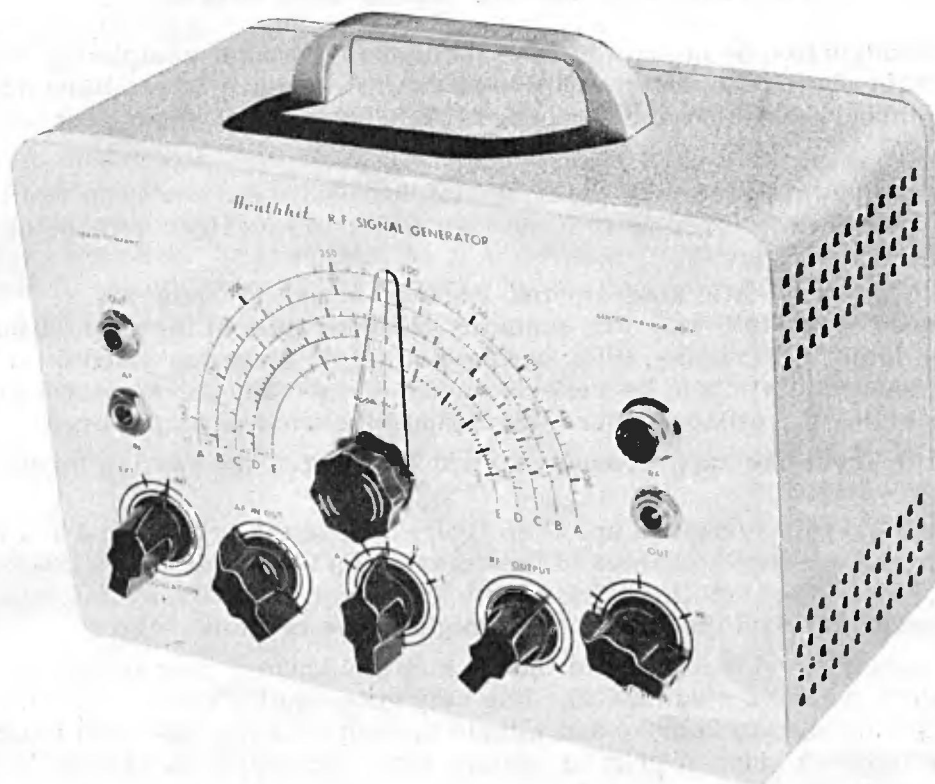
595-46

**HEATH COMPANY**

BENTON HARBOR,  
MICHIGAN

THE WORLD'S *Finest* TEST EQUIPMENT IN KIT FORM

# ASSEMBLY AND OPERATION OF THE HEATHKIT SIGNAL GENERATOR MODEL SG-7



## SPECIFICATIONS

### FREQUENCY RANGE

Band A . . . . .	160 Kc to 500 Kc. . . . .
Band B . . . . .	500 Kc to 1,650 Kc. . . . .
Band C . . . . .	1.65 Mc to 5.5 Mc.. . . .
Band D . . . . .	5.5 Mc to 18.5 Mc.. . . .
Band E . . . . .	17 Mc to 52 Mc. . . . .
Calibrated Harmonics . . . . .	51 Mc to 156 Mc. . . . .

RADIO FREQUENCY OUTPUT . . . . . In excess of 100,000 microvolts. . . . .

MODULATION FREQUENCY . . . . . Approximately 400 cycles. . . . .

AUDIO OUTPUT . . . . .  $1\frac{1}{2}$  to 2 Volts . . . . .

AUDIO FREQUENCY INPUT . . . . . Approximately 5V across 1 Megohm . . . . .

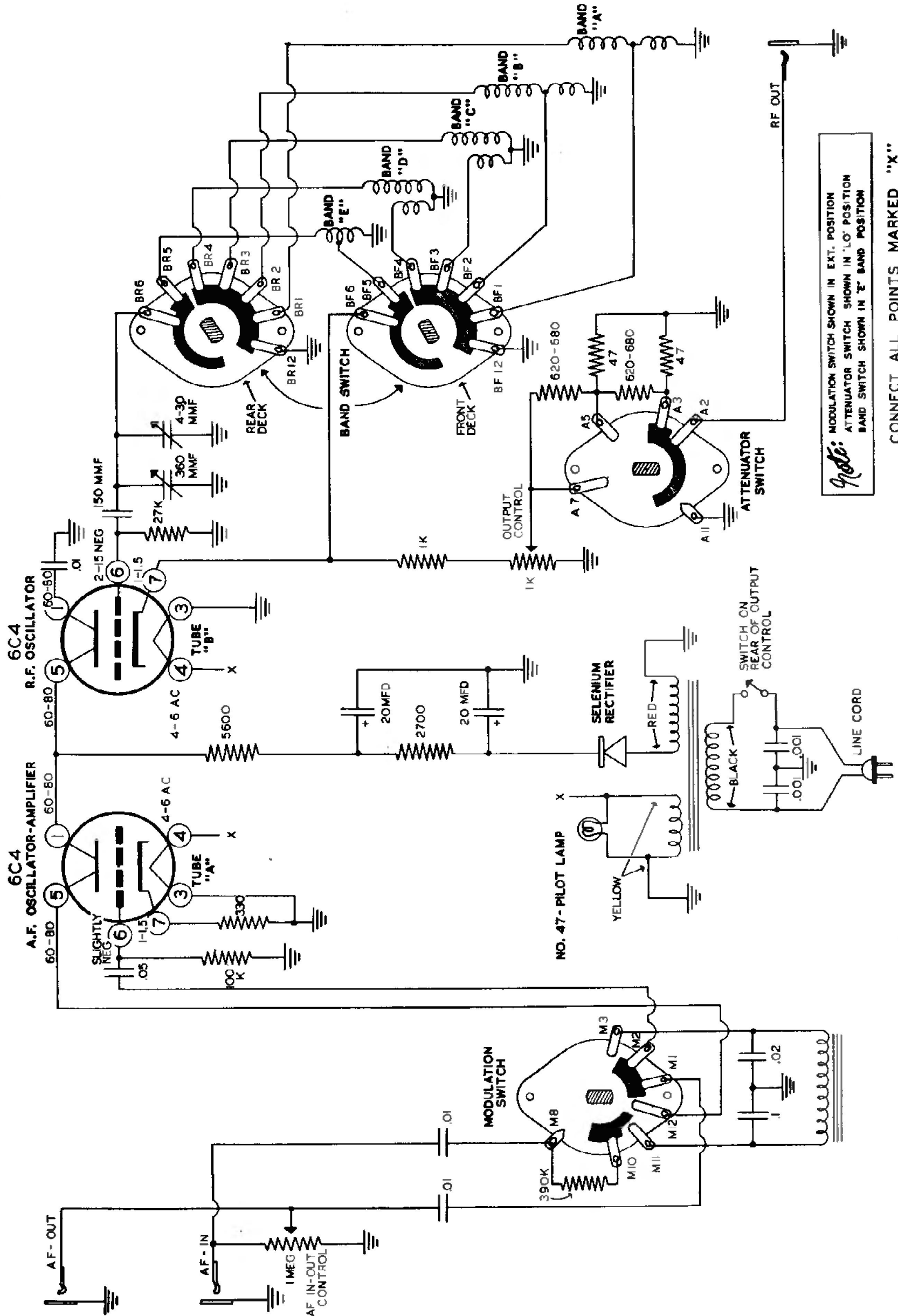
### TUBES

6C4 RF Oscillator. . . . . 6C4 Audio Oscillator or Audio Amplifier

POWER REQUIREMENTS . . . . . 105-125V. 50/60 cycles . . . . .

## PARTS LIST SG-7

Part No.	Parts Per Kit	Description	Part No.	Parts Per Kit	Description
<b>Resistors</b>			<b>Sockets-Knobs-Jacks</b>		
1-1	2	47 Ohm	434-15	2	Miniature Tube Sockets
1-4	1	330 Ohm	434-22	1	Pilot Light Socket
1-7	2	620-680 Ohm	252-12	1	Pilot Light Nut
1-9	1	1000 Ohm	455-1	1	Pilot Light Bushing
1-13	1	2,700 Ohm	413-1	1	Pilot Light Jewel
1-18	1	5,600 Ohm	462-M12	5	Pointer Knobs
1-23	1	27K Ohm	462-5	1	Knob
1-26	1	100K Ohm	100-M10	1	Indicator Assembly
1-32	1	390K Ohm	436-1	3	Phone Jacks
<b>Condensers</b>			<b>Hardware</b>		
21-11	1	150 MMF	250-2	4	3-48 x $\frac{1}{4}$ Screws
23-1	2	.001 MFD	252-1	4	3-48 Nuts
23-3	3	.01 MFD	250-7	3	6-32 x 3 $\frac{1}{16}$ Screws
23-8	1	.02 MFD	250-9	11	6-32 x 3 $\frac{1}{8}$ Screws
23-10	1	.05 MFD	250-13	1	6-32 x 1 Screw
23-11	1	.1 MFD	250-8	2	#6 x 3 $\frac{1}{8}$ Sheet Metal Screws
25-7	1	20-20 MFD-150V	251-1	2	6-32 Spade Bolts
31-6	1	5-20 MMF Trimmer	252-3	24	6-32 Nuts
26-1	1	360 MMF Tuning	254-1	21	#6 Lockwashers
<b>Control-Switches</b>			259-1	6	#6 Solder Lugs
19-14	1	1K Ohms Control with Sw.	250-15	1	8-32 x 1 $\frac{1}{8}$ Set Screws
10-17	1	1 Megohm Control	250-19	2	10-24 x 3 $\frac{1}{8}$ Handle Screws
63-19	1	5 Position Band Sw.	252-7	8	Control Nuts
63-6	1	3 Position Attenuator Sw.	254-4	8	Control Lockwashers
63-4	1	2 Position Modulation Sw.	253-10	7	Control Nickel Washers
<b>Coils-Choke-Transformer</b>			250-22	5	Set Screws
40-11	1	Oscillator Coil Band A	<b>Clips-Plug-Wire</b>		
40-12	1	Oscillator Coil Band B	260-1	2	Alligator Clips
40-13	1	Oscillator Coil Band C	438-3	1	Phone Plug
40-14	1	Oscillator Coil Band D	343-1	1	Length Shielded Test Lead
40-15	1	Oscillator Coil Band E	344-1	1	Roll Hookup Wire
46-1	1	AF Choke	340-2	1	Length Bare Wire
54-2	1	Power Transformer	345-1	1	Length Braid
<b>Tubes-Lamp-Rectifier</b>			346-1	1	Length Spaghetti
411-4	2	6C4 Tubes	89-1	1	Line Cord
412-1	1	#47 Pilot Lamp	<b>Chassis-Parts-Cabinet</b>		
57-2	1	Selenium Rectifier	200-M36	1	Chassis
<b>Grommets-Feet-Terminal Strips</b>			200-M37	1	Sub Chassis
73-1	4	3 $\frac{1}{8}$ Grommets	203-26F10	1	Front Panel
261-1	4	Rubber Feet	90-14	1	Cabinet
431-2	1	2 Lug Terminal Strip	211-1	1	Handle
431-3	1	3 Lug Terminal Strip	<b>Manual</b>		
			595-46	1	Instruction Manual



*Note:* MODULATION SWITCH SHOWN IN EXT. POSITION  
 ATTENUATOR SWITCH SHOWN IN 'LO' POSITION  
 BAND SWITCH SHOWN IN 'E' BAND POSITION

CONNECT ALL POINTS MARKED "X"

WIRING OF EXPORT TYPE  
110/220 VOLT POWER  
TRANSFORMERS

These transformers have a dual primary for use on either 110 Volts or 220 Volts.  
Wire as shown.

