

ASSEMBLING
AND USING
YOUR

Heathkit

SIGNAL
GENERATOR
MODEL SG-7

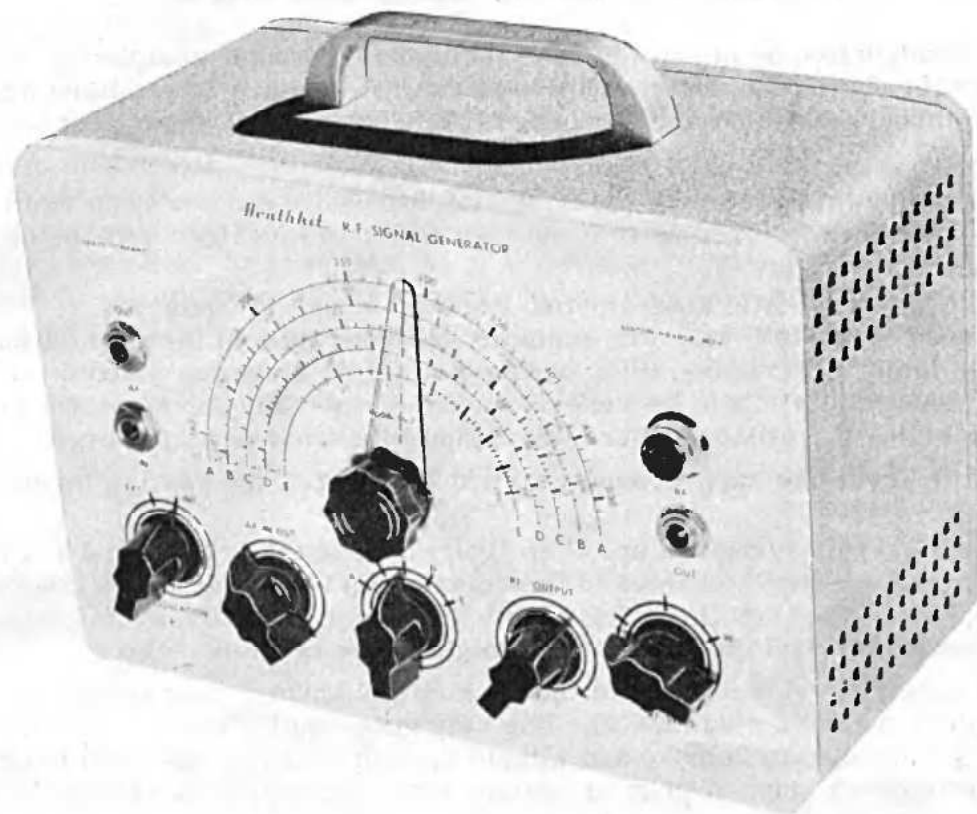
595-46

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

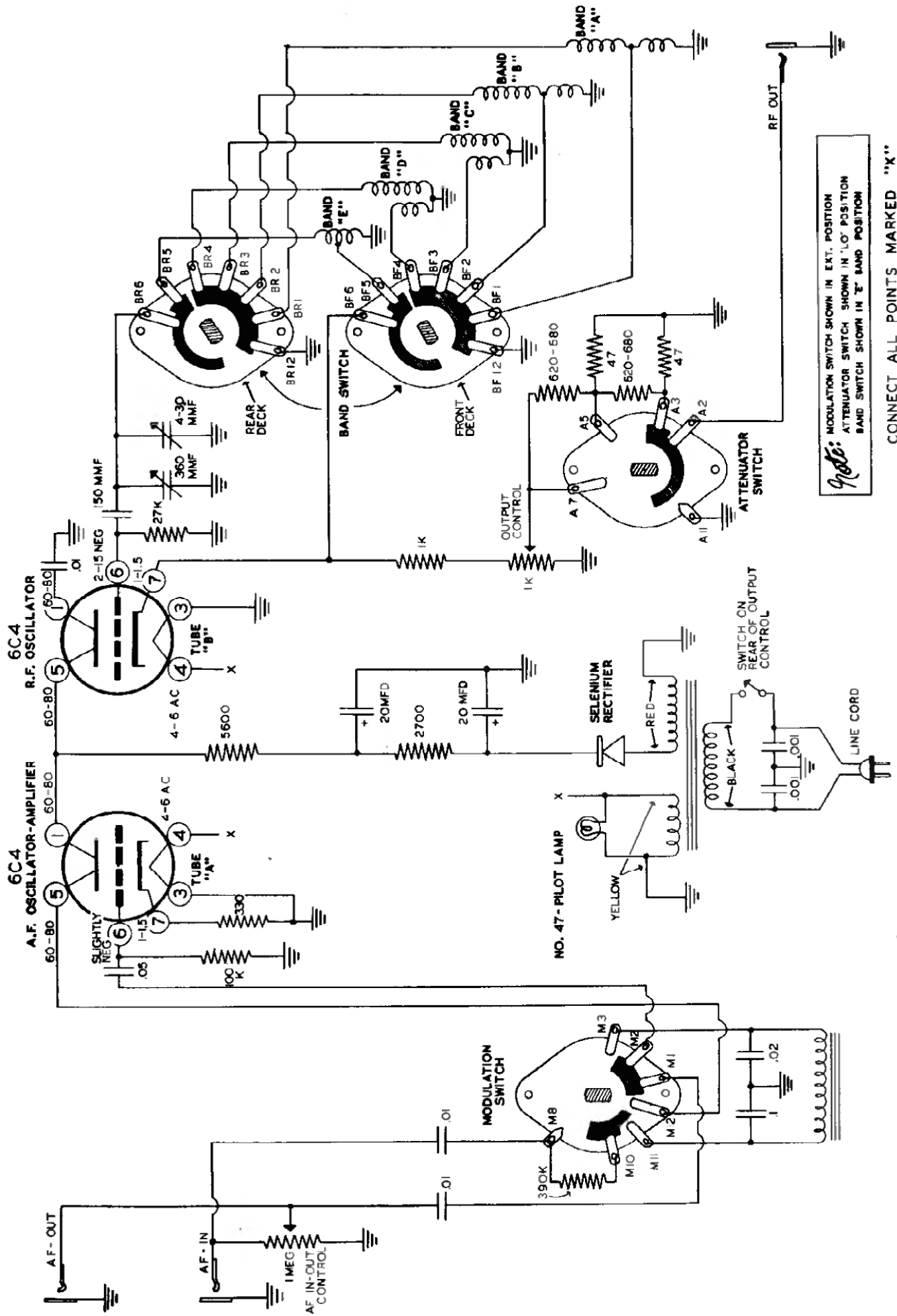
TUBES

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 |
|--------------------------------------|---------------|---------------------------|------------------------------|---------------|-----------------------------|
| Resistors | | | Sockets-Knobs-Jacks | | |
| 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 |
| Condensers | | | Hardware | | |
| 21-11 | 1 | 150 MMF | 250-2 | 4 | 3-48 x 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 3/16 Screws |
| 23-8 | 1 | .02 MFD | 250-9 | 11 | 6-32 x 3/8 Screws |
| 23-10 | 1 | .05 MFD | 250-13 | 1 | 6-32 x 1 Screw |
| 23-11 | 1 | .1 MFD | 250-8 | 2 | #6 x 3/8 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 |
| Control-Switches | | | 259-1 | 6 | #6 Solder Lugs |
| 19-14 | 1 | 1K Ohms Control with Sw. | 250-15 | 1 | 8-32 x 1/8 Set Screws |
| 10-17 | 1 | 1 Megohm Control | 250-19 | 2 | 10-24 x 3/8 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 |
| Coils-Choke-Transformer | | | 250-22 | 5 | Set Screws |
| 40-11 | 1 | Oscillator Coil Band A | Clips-Plug-Wire | | |
| 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 |
| Tubes-Lamp-Rectifier | | | 346-1 | 1 | Length Spaghetti |
| 411-4 | 2 | 6C4 Tubes | 89-1 | 1 | Line Cord |
| 412-1 | 1 | #47 Pilot Lamp | Chassis-Parts-Cabinet | | |
| 57-2 | 1 | Selenium Rectifier | 200-M36 | 1 | Chassis |
| Grommets-Feet-Terminal Strips | | | 200-M37 | 1 | Sub Chassis |
| 73-1 | 4 | 3/8 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 | Manual | | |
| | | | 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.

