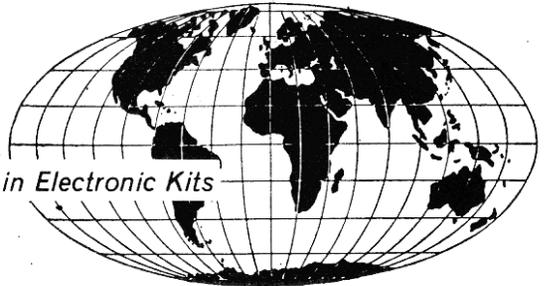


specifications

FOR THE



Pioneer And World-Leader in Electronic Kits



TRANSISTOR CITIZEN'S BAND TRANSCEIVER

MODEL GW-14



All prices are subject to change without notice. The Heath Company reserves the right to discontinue instruments and to change specifications at any time.

HEATHKIT-GERÄTE
GmbH

6079 Sprendlingen bei Frankfurt
Robert-Bosch-Straße Nr. 32-38
Tel. 06103· 68971,68972,68973

SPECIFICATIONS

RECEIVER

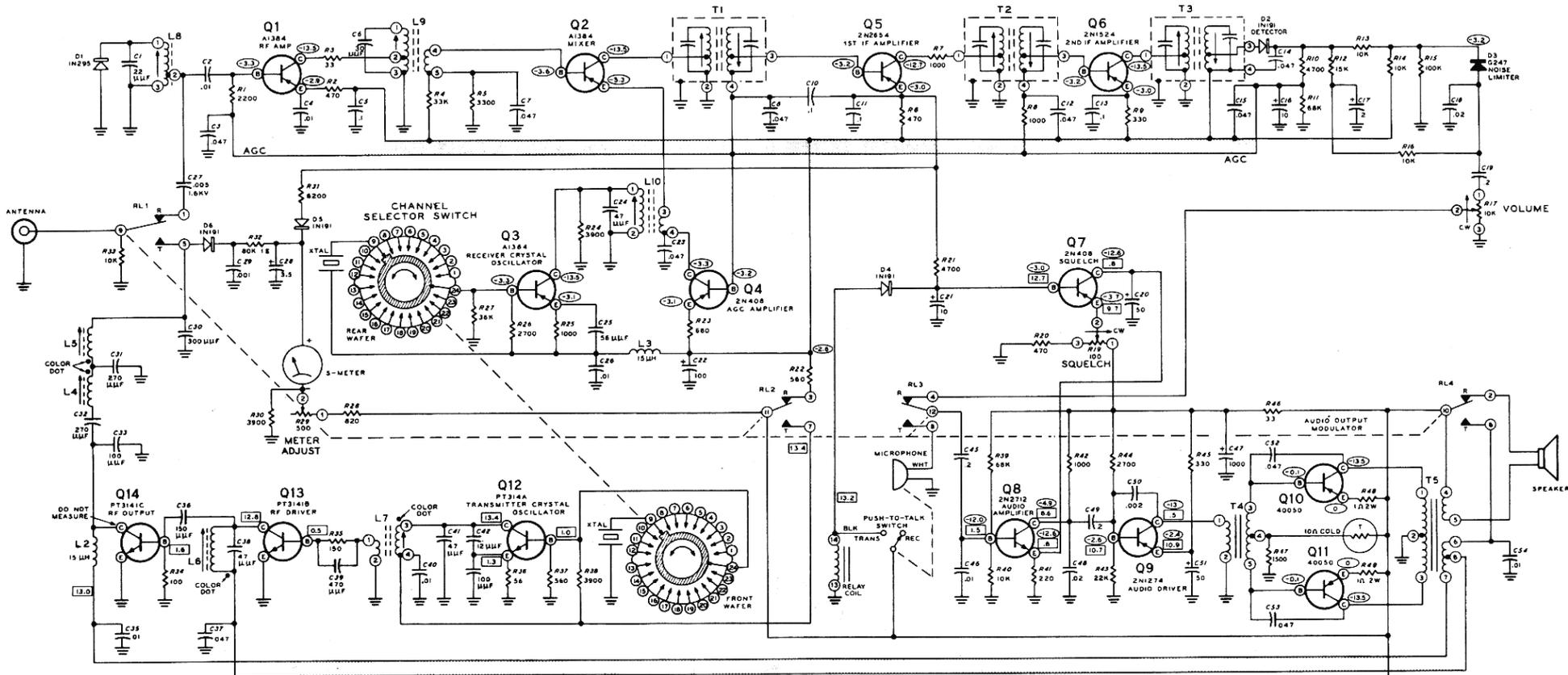
Frequency.	26,965 mc to 27,255 mc in the 11-meter Citizen's Band.
Crystal-Controlled Frequencies.	Up to 23 channels, as determined by the particular crystals installed in the receiver section.
Intermediate Frequency (IF).	455 kc.
Noise Limiter.	Self-adjusting clipper type.
Sensitivity.	1/2 microvolt for 10 db signal plus noise to noise ratio $\left[\frac{S + N}{N} \right]$.
Selectivity.	Attenuation of a signal on an adjacent channel is at least 30 db.
Audio Power Output.	3 watts.

TRANSMITTER

Frequency.	26,965 mc to 27,255 mc in the 11-meter Citizen's Band.
Crystal Controlled Frequencies.	Up to 23 channels, as determined by the particular crystals installed in the transmitter section.
Frequency Control	3rd overtone quartz crystal, as selected by the 23 channel selector switch.
Frequency Control Effectiveness.	Operating frequency within .005% of the crystal frequency at an ambient temperature range of -20 to +130 degrees Fahrenheit.
Modulation.	High level AM modulation, limited to less than 100%.
RF Output Circuit.	Twin Pi matching network.
Power Input To RF Output Transistor.	5 watts nominal.
RF Power Output.	3 watts minimum into a 50 ohm load.
Output Impedance.	50 ohms.

GENERAL

Controls.	Volume, with on-off switch. Squelch. Channel switch. Meter Adjust.
Meter.	150 microamperes full scale, calibrated in S-Units. For receiving, an S-9 reading corresponds to approximately 100 microvolts signal input. For transmitting, the meter indicates relative power output and modulation peaks.
Transistor Complement.	3 - A1384 Receiver RF amplifier, receiver crystal oscillator, and mixer. 1 - 2N2654 1st IF amplifier. 1 - 2N1524 2nd IF amplifier. 2 - 2N408 AGC amplifier and squelch. 1 - 2N2712 Audio amplifier. 1 - 2N1274 Audio driver. 2 - 40050 Audio output-modulator. 1 - PT3141A Transmitter crystal oscillator. 1 - PT3141B RF driver. 1 - PT3141C RF output.
Diode Complement.	1 - G247 silicon diode; noise limiter. 1 - 1N295 crystal diode; receiver overload protection. 1 - 3 ampere silicon diode; protection against reverse voltage. 4 - 1N191 crystal diodes; audio detector, meter diodes, and squelch diode.
Power Requirements.	12 to 13.5 volts DC, up to 750 milliamperes (unmodulated). Receiver current drain (standby); 120 milliamperes or 60 milliamperes with portable battery supply (indicator lamps disabled). Transmitter current drain: 750 milliamperes.
Power Sources.	12 volt DC mobile battery, Heathkit Model GWA-14-1 AC Power Supply, or a portable battery supply.
Dimensions.	2-7/8" high x 7" wide x 11" deep.
Net Weight.	5-1/4 lbs.



**SCHEMATIC OF THE
HEATHKIT
TRANSISTOR CITIZEN'S BAND
TRANSCIVER
MODEL GW-14**

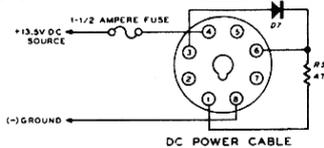
NOTES:
ALL RESISTORS ARE 1/2 WATT UNLESS MARKED OTHERWISE.
ALL RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
ALL CAPACITOR VALUES ARE IN μ F UNLESS MARKED OTHERWISE.

CHANNEL SELECTOR SWITCH VIEWED FROM THE REAR, AT CHANNEL 9 POSITION, RELAY CONTACTS SHOWN IN RECEIVE (R) POSITION; (T) INDICATES TRANSMIT POSITION. REFER TO THE X-RAY VIEW FOR THE PHYSICAL LOCATION OF PARTS ON THE CIRCUIT BOARD.

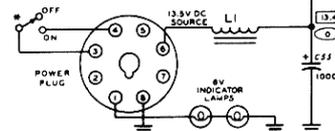
*OFF - ON SWITCH ON VOLUME CONTROL.

○ INDICATES VOLTAGE READING TAKEN FROM POINT INDICATED TO POSITIVE DC INPUT. THE ANTENNA IS DISCONNECTED WITH THE RECEIVER SECTION ENERGIZED.

□ INDICATES VOLTAGE READING TAKEN FROM POINT INDICATED TO NEGATIVE GROUND INPUT. THE DUMMY LOAD IS PLUGGED IN THE ANTENNA SOCKET WITH THE TRANSMITTER SECTION ENERGIZED.



DC POWER CABLE



POWER PLUG