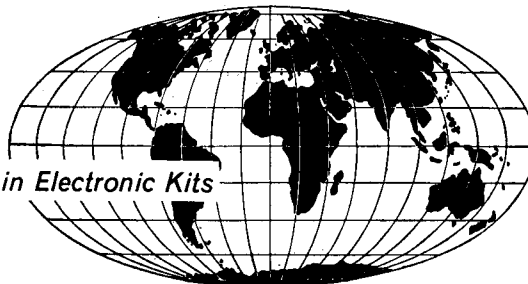


specifications

FOR THE

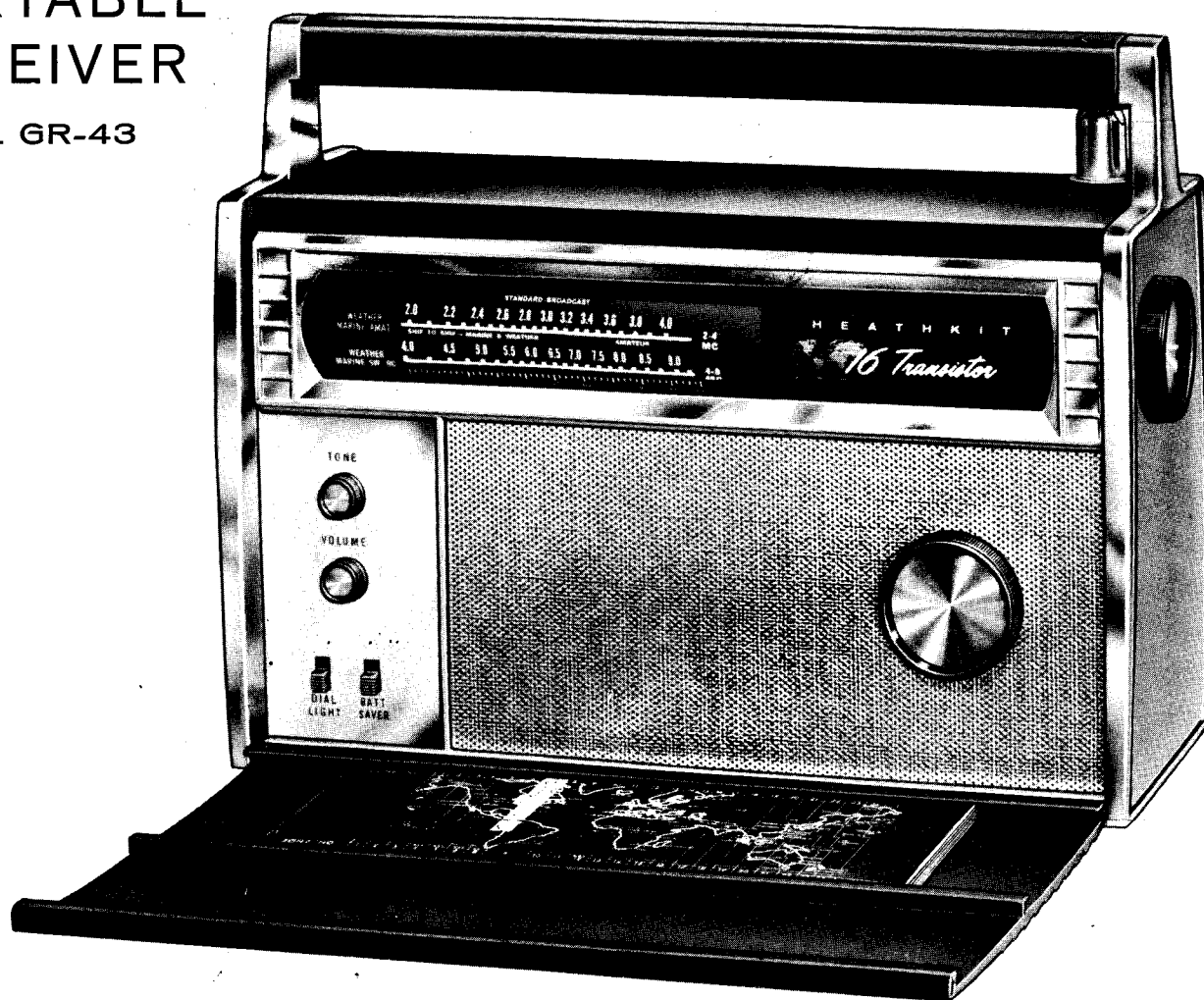


Pioneer And World-Leader in Electronic Kits



ALL-BAND TRANSISTOR PORTABLE RECEIVER

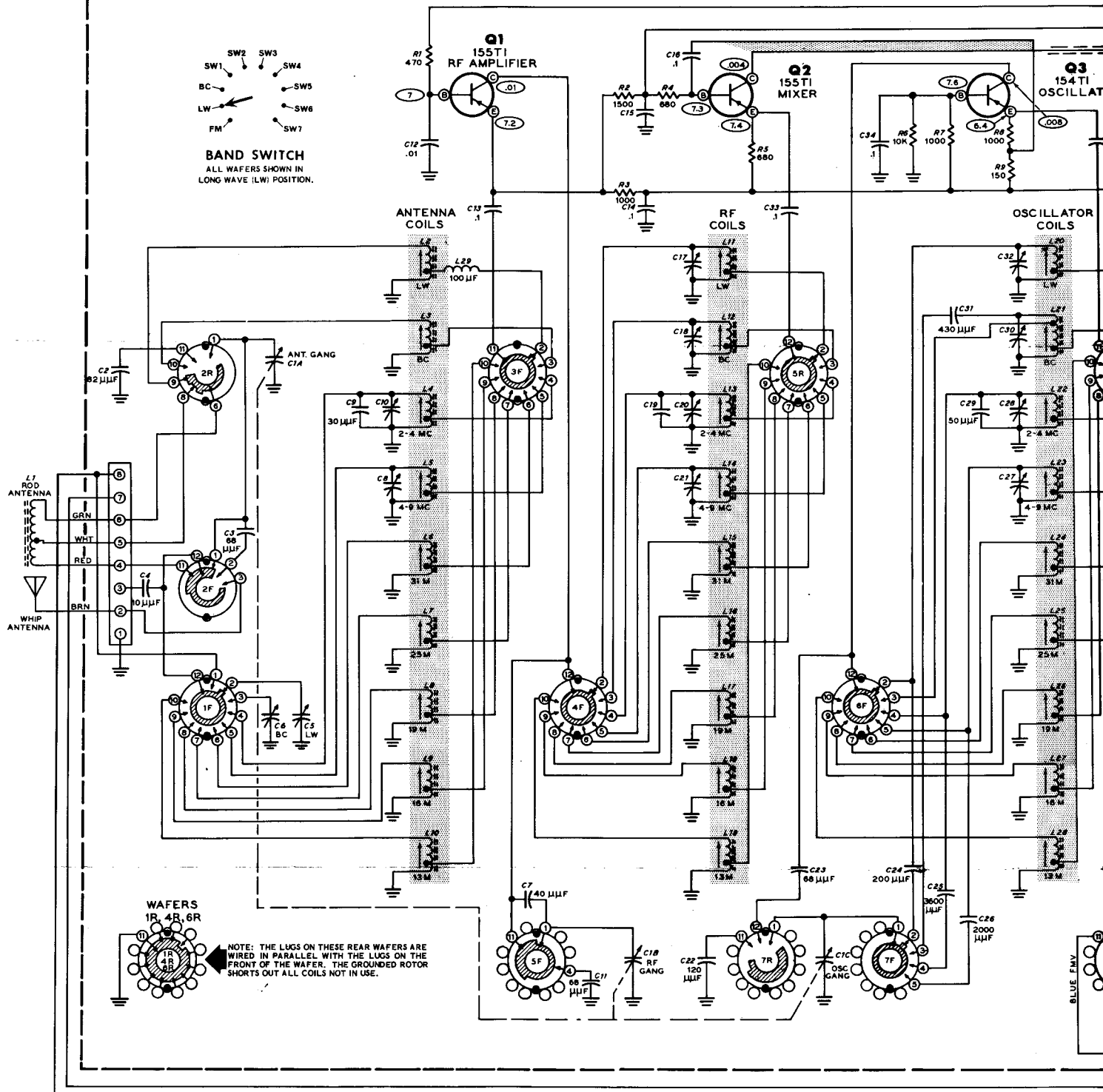
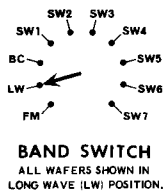
MODEL GR-43



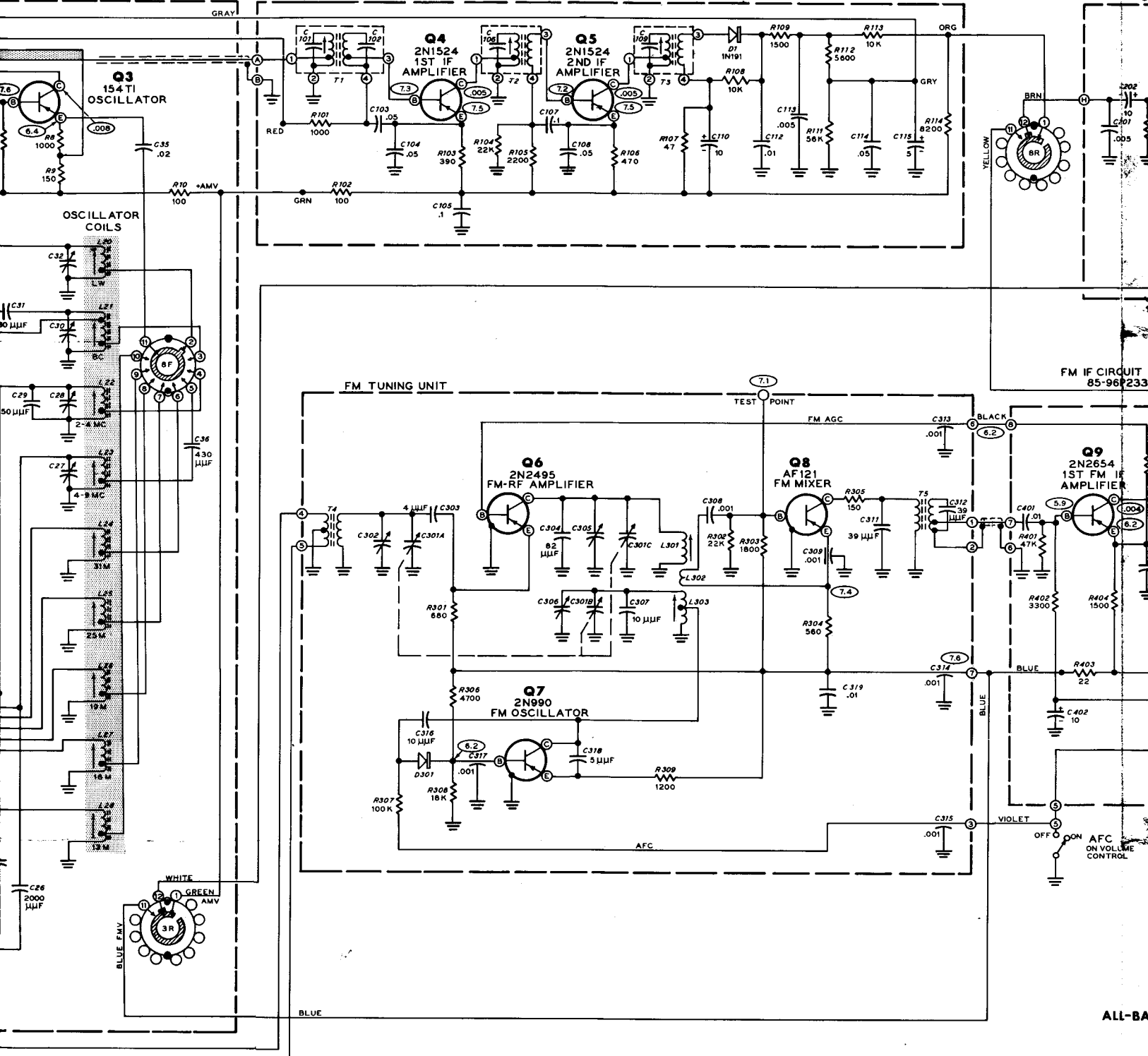
All prices are subject to change without notice.
The Heath Company reserves the right to discontinue instruments and to change specifications at any time.

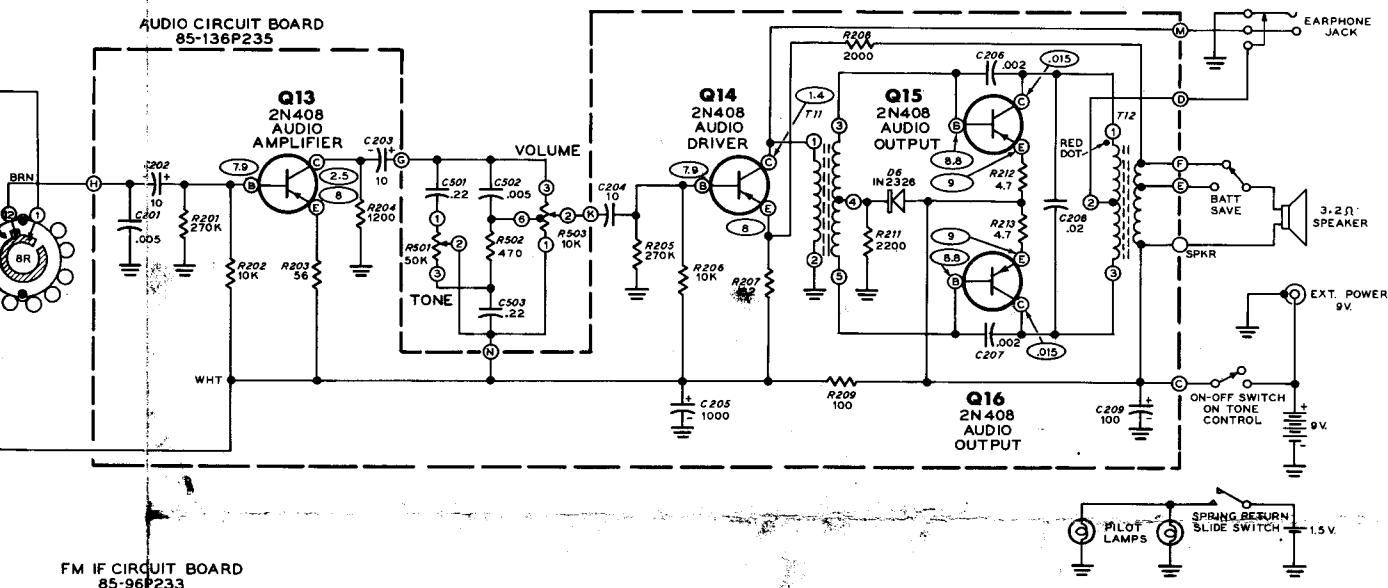
HEATH COMPANY,
BENTON HARBOR, MICHIGAN

AM TUNING UNIT



AM IF CIRCUIT BOARD
85-135P234





**SCHEMATIC OF THE
HEATHKIT®
MODEL GR-43
ALL-BAND TRANSISTOR PORTABLE RECEIVER**

NOTES:
1. RESISTOR AND CAPACITOR NUMBERS ARE IN THE FOLLOWING GROUPS:

- | | |
|---------|----------------------------------|
| 0-99 | PARTS IN THE AM TUNING UNIT |
| 100-199 | PARTS ON THE AM IF CIRCUIT BOARD |
| 200-299 | PARTS ON THE AUDIO CIRCUIT BOARD |
| 300-399 | PARTS IN THE FM TUNING UNIT |
| 400-499 | PARTS ON THE FM IF CIRCUIT BOARD |
| 500-599 | PARTS MOUNTED ON THE CHASSIS |
- ALL RESISTORS ARE 1/2 WATT UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (K=1,000, MEG = 1,000,000).
 - ALL CAPACITOR VALUES ARE IN μ F UNLESS MARKED OTHERWISE.
 - THIS SYMBOL INDICATES A POSITIVE DC VOLTAGE MEASUREMENT, TAKEN WITH AN 11 MEGOHM VTVM, FROM THE POINT INDICATED TO CHASSIS GROUND. VOLTAGES MAY VARY $\pm 10\%$.
 - RECEIVER VOLTAGES MEASURED WITH VOLUME FULL CCW AND WITH NO SIGNAL INPUT. AFC SWITCH OFF.
 - BANDSWITCH WAFERS SHOWN IN LONGWAVE POSITION (LW), POSITION E. ALL WAFERS VIEWED FROM THE KNOB END OF THE SHAFT.
 - REFER TO THE CHASSIS PHOTOGRAPHS AND CIRCUIT BOARD X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS.

SPECIFICATIONS

AM SECTION

Tuning Range.	Long wave - 150-400 kc. Broadcast - 550-1600 kc. 2-4 MC - 2-4 mc. 4-9 MC - 4-9 mc. 31 M - 9.2-10.2 mc. 25 M - 11.2-12.4 mc. 19 M - 14.5-16.1 mc. 16 M - 16.8-18.8 mc. 13 M - 20.2-22.4 mc.
Sensitivity*.	Long Wave - 12 μv^* - 100 μv^{**} Broadcast - 10 μv^* - 100 μv^{**} 2-4 MC - 5 μv^* 4-9 MC - 3 μv^* 31 M - 3 μv^* 25 M - 2 μv^* 19 M - 2 μv^* 16 M - 2 μv^* 13 M - 2 μv^*
Intermediate Frequency (IF).	455 kc.
Antenna.	Built-in rod antenna for Long Wave and Broadcast band; built-in whip antenna for all other bands. External antenna and ground terminals available.

FM SECTION

Tuning Range.	88-108 mc.
Sensitivity	1-1/2 μv for 20 db of quieting. 2 μv for 30 db of quieting. 3 μv for 40 db of quieting.
Intermediate Frequency (IF).	10.7 mc.
Antenna.	Built-in whip with provisions for 75 Ω or 300 Ω external antennas.

*At External Antenna Input for a 10 db signal plus noise-to-noise ratio.

**Radiated signal input for a 10 db signal plus noise-to-noise ratio.

GENERAL

Audio Output.	Normal: 500 mw at 10% total harmonic distortion. Battery Saver: 160 mw at 10% total harmonic distortion.
Speaker.	4" x 6" oval; permanent magnet; 3.2 Ω voice coil impedance.
Transistor Complement.	2 - 155T1: AM RF Amplifier, AM mixer. 1 - 154T1: AM oscillator. 2 - 2N1524: AM amplifier, IF amplifier. 4 - 2N408: Audio driver, push-pull audio output. 1 - 2N2495: FM RF amplifier 1 - AF121: FM mixer. 1 - 2N990: FM oscillator. 4 - 2N2654: FM IF amplifiers, limiter.
Diode Complement.	2 - 1N191: AM audio detector, FM AGC. 2 - 1N541: FM ratio detector. 1 - 1N3182: FM oscillator AFC. 1 - 1N2326: Audio output voltage temperature compensating.
Front Panel Controls.	AFC On-Off, Volume. Tone, power On-Off. Battery Saver-Normal. Dial Light Off-On. Tuning.
Side Panel Control	Band switch.
Batteries.	6 - 1-1/2 volt size D cell. 1 - 1-1/2 volt size C cell.
Dimensions.	13-1/2" wide x 5-1/8" deep x 10-3/8" high, including handle.
Net Weight.	Approximately 17 lbs., including batteries.
