Excellent performance at low cost

Matching Speaker
Model 2-CS
$19.95 Amateur Net

DRAKE 2-C RECEIVER

$229.00 AMATEUR NET

FEATURES

- **Covers ham bands** 80, 40, 20, 15 meters completely and 28.5 to 29.0 mHz of 10 meters with crystals furnished.
- **Or tunes any 500 kHz range** between 3.0 and 30 mHz with an accessory crystal.
- **Three Bandwidths of selectivity** (equivalent to 3 filters) **are furnished:** .4 kHz, 2.4 kHz and 4.8 kHz.
- **Solid State Audio** with 1.8 watts output.
- **Solid State AVC** with fast attack and slow release for SSB or fast release for high break-in CW. Also AVC may be switched off.
- **Receives SSB, AM, CW, and RTTY** with full RF gain, complete AVC action and accurate S-meter indication.
- **Product Detector** for SSB/CW—diode detector for AM.
- **Excellent overload and cross modulation characteristics;** insensitive to operation of nearby transmitters.

SPECIFICATIONS

FREQUENCY COVERAGE: 3.5 to 4.0 mHz, 7.0 to 7.5 mHz, 14.0 to 14.5 mHz, 21.0 to 21.5 mHz and 28.5 to 29.0 mHz with crystals supplied. Accessory crystals provide 500 kHz incremental coverage from 3.0 to 30 mHz.

SELECTIVITY: Selectable Passband Filter provides:
.4 kHz at 6 DB down and 2.7 kHz at 60 DB down.
2.4 kHz at 6 DB down and 9.0 kHz at 60 DB down.
4.8 kHz at 6 DB down and 16.8 kHz at 60 DB down.

DIAL CALIBRATION: Main dial calibrated 0 to 500 kHz in 10 kHz divisions. Vernier dial calibrated in approximately 1 kHz divisions. Main dial and Vernier adjustable for calibration.

STABILITY: Less than 100 Hz after warm up. Less than 100 Hz for 10% line voltage change.

MODES OF OPERATION: USB, LSB, CW, AM, RTTY.

SENSITIVITY: Less than .5 uv for 10 DB signal plus noise to noise on all amateur bands.

AVC: Amplified delayed AVC having slow (.75 sec.) or fast (.025 sec.) discharge and less than 100 microsecond charge. AVC can be switched off. Less than 6 DB change for 100 DB RF input change.

AUDIO OUTPUT: 1.8 watts with less than 5% distortion and .75 watts at AVC threshold.

AUDIO OUTPUT IMPEDANCE: 4 ohms.

ANTENNA INPUT: Nominal 52 ohms.

SPURIOUS RESPONSES: Image rejection greater than 60 DB. IF rejection greater than 60 DB on amateur bands. Internal spurious signals within amateur bands less than the equivalent of a 1 uv signal on the antenna.

CONTROLS AND JACKS:
Front: Main Tuning, Function switch, Band switch, Preselector, RF Gain, Mode, Selectivity switch, AVC, and S-Meter.
Rear: Antenna jack, S-Meter Zero, Mute Jack, Sidetone Jack, and Speaker Jack.
Side: Auxiliary crystal socket, auxiliary crystal — Normal switch.
Top Chassis: 2-CQ socket, 2-AC socket, and Noise Blanker socket.

POWER CONSUMPTION: 30 watts, 120 VAC, 50/60 kHz.

DIMENSIONS: 11 5/16" wide, 6 3/32" high, 9 3/32" deep, weight 13 1/2 lbs.

ACCESSORIES:

2-AC CRYSTAL CALIBRATOR—100 kHz crystal oscillator corresponding to the numbered dial divisions on the Main Tuning Dial.

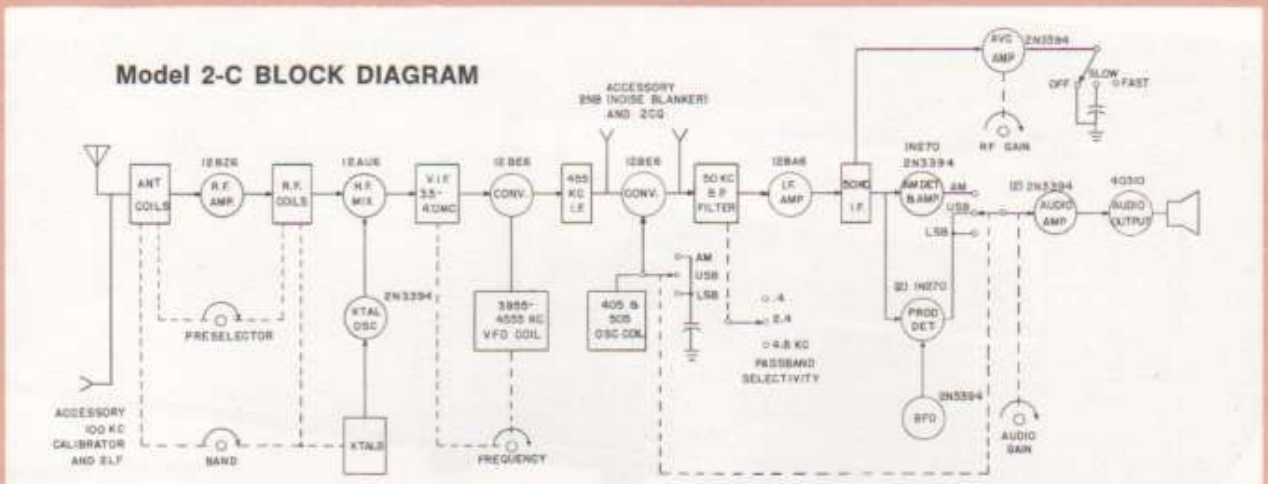
2-CQ SPEAKER/Q-MULTIPLIER and NOTCH FILTER—Plugs into a socket on the 2-C to provide increased selectivity and notching out of interfering hetrodynes and other interfering signals. Necessary controls are mounted on the 2-CQ.

2-NB NOISE BLANKER—Solid state circuitry is used to provide true noise blanking by quieting the receiver during the interval of the noise pulse.

2-CS MATCHING SPEAKER

DRAKE MODEL 2-C RECEIVER

Model 2-C BLOCK DIAGRAM

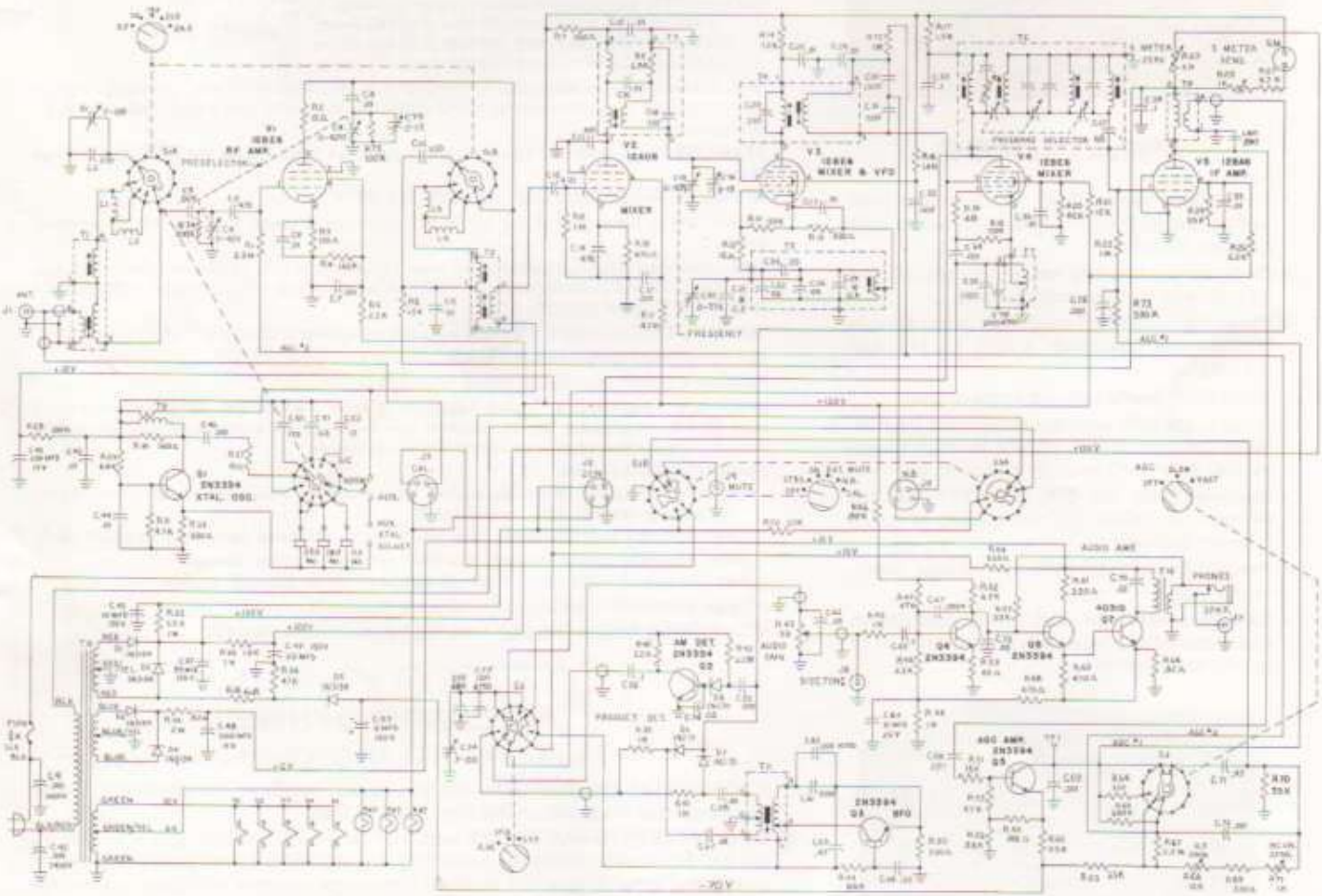


TUBES

12BZ6	R.F. Amplifier
12AU6	1st Mixer
12BE6	VFO Controlled 2nd Mixer
12BE6	3rd Mixer
12BA6	50 KHz IF Amplifier

SEMI-CONDUCTORS

2N3394	Crystal Oscillator
2N3394	AGC Amplifier
2N3394	50 HKz Oscillator
(2) **1N270**	Product Detector
1N270 and **2N3394**	AM Detector and Amplifier
(2) **2N3394**	Audio Amplifier
40310	Audio Output
(2) **1N3194**	Hi voltage Rectifier
(2) **1N3194**	Lo voltage Rectifier
1N3194	Bias Rectifier



NOTES: Capacitors marked 1.0 to 3000 are in pf and capacitors from .001 to .47 are in uf unless otherwise noted. *Indicates value selected in production.

Model 2-C Receiver
SCHEMATIC DIAGRAM

Resistors are ½ watt 10% unless otherwise noted. All switches viewed from front in counter-clockwise position. Highest resistor R75. Highest capacitor C80.

R. L. DRAKE COMPANY • MIAMISBURG, OHIO 45342