



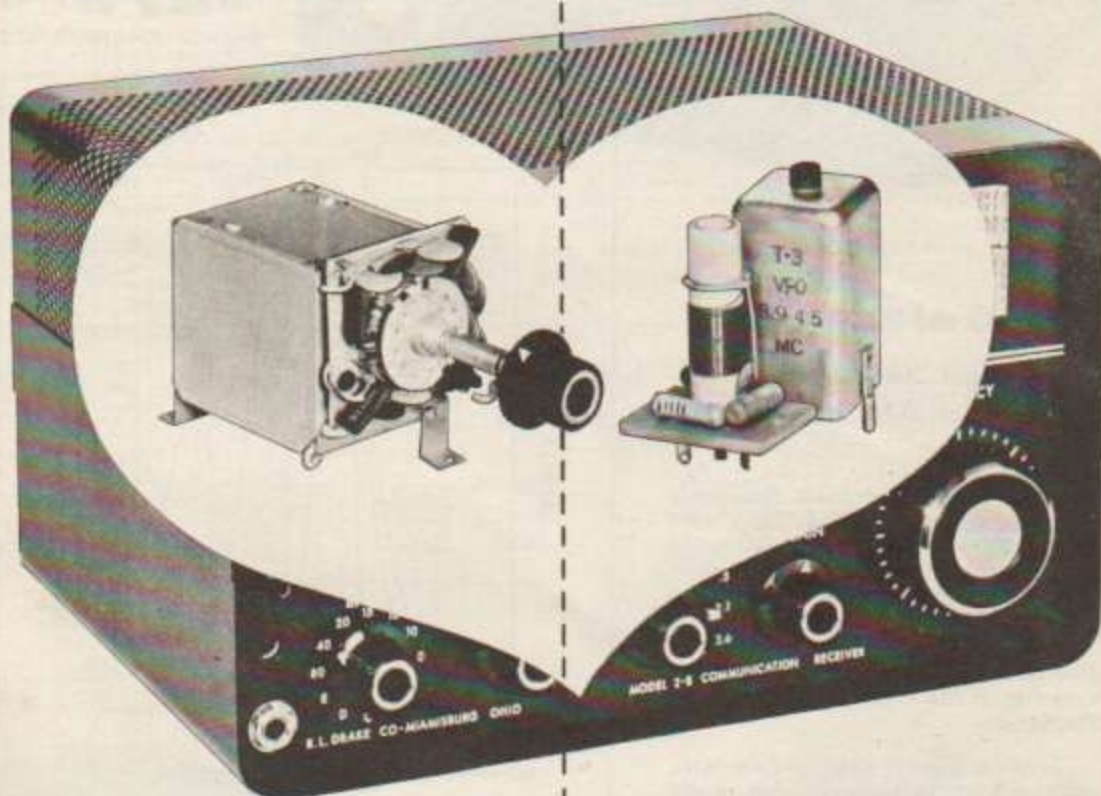
INSIDE THE **DRAKE 2-B RECEIVER**



Essentials for SSB operation:

SELECTIVITY

STABILITY



PASSBAND TUNER

Newly designed, with .5 kc, 2.1 kc, and 3.6 kc switchable bandwidths. Continuous passband tuning functions on each bandwidth. All three bandwidths are steep-sided and can be used for SSB . . . the 3.6 for Hi-Fi SSB, the 2.1 for crowded band SSB and the .5 for extreme interference conditions.

VARIABLE FREQUENCY OSCILLATOR

This low frequency VFO, with latest materials and techniques for improved resistance to high humidity and temperature, maintains the 2-B's crystal-controlled frequency stability . . . less than 400 cycles warm up; less than 100 cycles after warm up; less than 100 cycles for plus or minus 10% line voltage change.

With the Model 2-B you have all the advantages of a "Ham Band Only" receiver. Superior SSB, AM, and CW in seven band switch positions . . . plus . . . five extra positions on the bandswitch for interchangeable plug-in crystals to permit reception of any 600 kc bands in the 3.5 to 30 mc range. Amateur Net, \$279.95

Write for free brochure on the 2-B Receiver:

R. L. DRAKE COMPANY MIAMISBURG, OHIO



DRAKE

MODEL 2-B

RECEIVER

\$279⁹⁵

AMATEUR NET

Now...

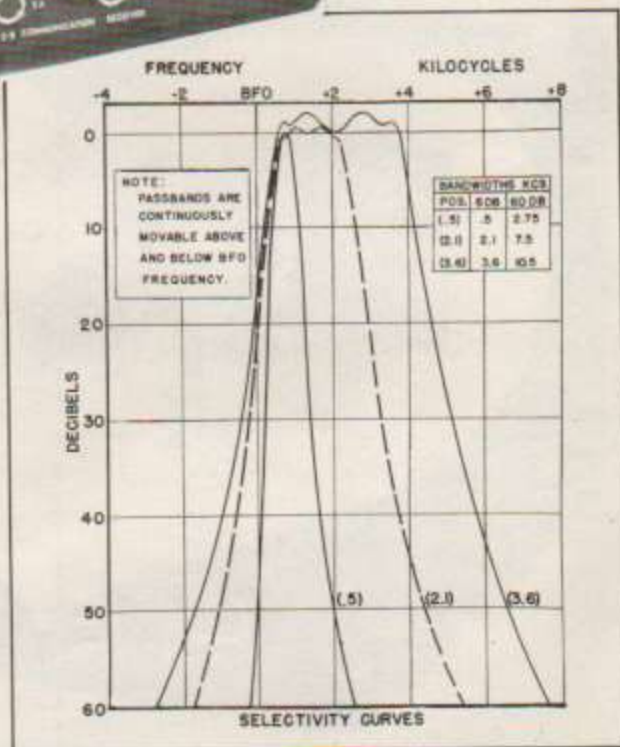
CW Selectivity

...as well as improved
SSB and AM selectivity

The new Drake Model 2-B features a newly designed Passband Tuner with .5 kc, 2.1 kc, and 3.6 kc switchable bandwidths. Continuous passband tuning functions on each bandwidth. All three bandwidths are steep-sided and can be used for SSB... the 3.6 for Hi-Fi SSB, the 2.1 for crowded band SSB and the .5 for extreme interference conditions.

To complement the new CW Selectivity, the fast AVC has been speeded up still more so that the Model 2-B can be used with a good TR switch for monitoring your own sending, and still allow you to hear a breaking signal between words.

With the Model 2-B you have all the advantages of a "Ham Band Only" receiver. Superior SSB, AM, and CW in seven band switch positions... plus... five extra positions on the band-switch for interchangeable plug-in crystals to permit reception of any 600 kc bands in the 3.5 to 30 mc range, such as shortwave broadcast bands, Citizen's Band, MARS, WWV, and others.



FEATURES

- New improved Passband Tuner with .5, 2.1, and 3.6 kc.
- Still faster Fast AVC for break-in CW.
- Triple conversion with crystal controlled first converter for maximum frequency stability.
- Continuous sideband selection without retuning.
- Reception of SSB, AM and CW with full RF gain, complete AVC action and accurate S-Meter indication.
- Distortion-free product detection.
- Series diode Noise Limiter for AM reception.
- High sensitivity, low noise.
- Excellent overload characteristics; insensitive to operation of nearby xmitters.
- Excellent mobile receiver when used with transistor inverter.
- Convenient tuning rate with deviation scale.
- Compact size.

ALSO A CHOICE OF: Slow or fast AVC; selectivity band width; product or diode detector.

SPECIFICATIONS

FREQUENCY COVERAGE: 3.5-30 mc, twelve 600 kc segments which may be set up and selected from the front panel include:

Five "Ham" ranges: 80M (3.5-4.1 mc), 40M (6.9-7.5 mc), 20M (13.9-14.5 mc), 15M (20.9-21.5 mc), 10M (28.5-29.1 mc).
Two "Ham" ranges (with accessory crystals): 10M (28.0-28.6 mc) and 10M (29.1-29.7 mc).

Five "Universal" ranges (with accessory crystals) five 600 kc ranges that may be set up between 3.5 and 30 mc by plugging in five accessory crystals chosen for the desired ranges (WWV, MARS, Sputnik, etc.).

MODE: Selectable SSB, A.M., C.W.

SELECTIVITY: .5 kc at 6 db—2.75 kc at 60 db, 2.1 kc at 6 db—7.5 kc at 60 db, or 3.6 kc at 6 db—10.5 kc at 60 db.

SPURIOUS RESPONSES: Image rejection more than 60 db, IF rejection more than 60 db on ham ranges, Internal spurious signals within ham bands less than equivalent 1 microvolt signal.

FREQUENCY STABILITY: Less than 400 cycles warm up; less than 100 cycles after warm up; less than 100 cycles for plus or minus 10% line voltage change. Latest materials and techniques for improved resistance to high humidity and temperature.

DIAL CALIBRATION: 10 kc main dial divisions, 1 kc (approximately) vernier dial divisions, Main dial and vernier both adjustable for calibration purposes.

SENSITIVITY: Less than 1/2 microvolt for 10 db S/N.

AVC: .75 sec. or .025 sec. discharge, less than 100 micro second charge.

AUDIO OUTPUT: 1 watt maximum, .2 watt at AVC threshold.

AUDIO DISTORTION: Less than 3% harmonic, Less than 1/2% intermodulation (including product detector).

CONTROLS: "Frequency" 2 1/2" diameter with adjustable 40 divisions skirt (approximately 1 kc/division). "Preselector" tunes antenna and RF to incoming signal, calibrated 80 through 10 meters plus 0-10 scale for frequencies outside ham bands. "Band" Switch indicates ham band or other tuning range. A concentric switch selects .5, 2.1, or 3.6 kc bandwidths. "Passband" used with all three selectivities to select desired sideband by tuning passband above or below the fixed BFO (or carrier). "RF Gain" adjusts RF gain (S meter reads accurately at any setting of control which allows meter to kick). "AF Gain" adjusts audio gain. A front panel headphone jack disconnects the speaker when phones are plugged in.

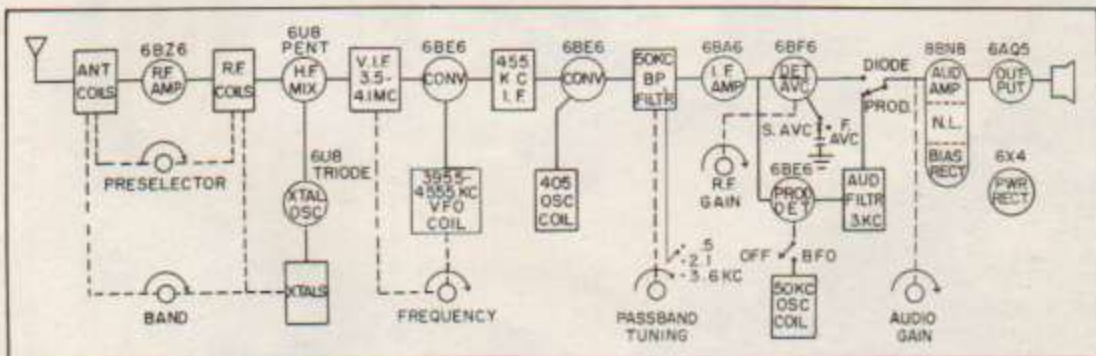
SLIDE SWITCHES: "Power-Off" A.C. on or off. "NL-Off" controls AM Noise Limiter. "Sby-Rev" standby-receive or to offset external muting when used with transmitter. "S. AVC—F. AVC" .75 seconds or .025 seconds AVC discharge time. "Prod-Diode" detector selector switch. "BFO-Off" BFO switch independent of detector switch. (BFO may be used with either Product or Diode Detector.) Also Accessory Switch: "Cal-Off."

REAR CHASSIS CONNECTIONS: All connections are made to screw type terminals (provision is made for SO 239 Antenna Coax Connector). Terminals are: 50-75 ohm antenna, Muting, AVC time constant, 4 ohm AF output (to speaker, Antitrip, phone patch, etc.) Socket for Q Multiplier.

10 TUBES

SIZE: 12" Wide x 7" High x 9" Deep. **WEIGHT:** 14.7 pounds.

POWER: 120-240 volts, 50-60 cycles, 40 watts.



**Model 2 BQ
Combination
Q-Multiplier and
Deluxe Speaker**

for notching heterodynes or
single signal CW

\$39.95 AMATEUR NET



**Model 2-AC
100 kc
Crystal Calibrator**
\$16.95 Amateur Net

R. L. DRAKE COMPANY MIAMISBURG, OHIO

