

NC-190 SPECIFICATIONS

The NC-190 is a 10 tube general coverage communications receiver featuring double conversion, variable IF Selectivity, and CALIBRATED INTERNATIONAL BROADCAST and AMATEUR bandspread, made possible by National's exclusive Dial Selector.

MAIN TUNING RANGES

540-1600 KC
1.6-4.0 MC
4.0-10.0 MC
10.0-20.0 MC
20.0-30.0 MC

INTERNATIONAL BROADCAST BANDSPREAD

13 Meter Band (21.5-22.1 MC)
16 Meter Band (16.4-18.0 MC)
19 Meter Band (14.6-15.4 MC)
25 Meter Band (11.7-12.0 MC)
31 Meter Band (8.6-10.0 MC)
49 Meter Band (5.9-6.3 MC)

AMATEUR BANDSPREAD

10 Meters (26.6-30.0 MC)
15 Meters (21.0-21.5 MC)
20 Meters (13.8-14.5 MC)
40 Meters (6.9-7.5 MC)
80 Meters (3.5-4.0 MC)

IMAGE REJECTION: Double conversion on all bands above 4 MC practically eliminates unwanted images. 1st IF—2215 Kc, 2nd IF—230 Kc.

SENSITIVITY: Better than 1 microvolt for a 10db signal to noise ratio.

STABILITY: Highest quality components, ceramic coil forms, voltage regulation, $\frac{1}{8}$ " panel and solid chassis provide excellent thermal and mechanical stability.

SELECTIVITY: National's exclusive "Ferrite Filter" provides 600 cycle bandwidth for CW, 3 KC for SSB and a full 5 KC for AM reception.

AUTOMATIC GAIN CONTROL (AGC): Full AGC for SSB, CW and AM reception.

"S" METER: Operates on all modes of reception including SSB and CW. Calibrated in 9 "S" units and in decibels above S-9.

NOISE LIMITERS: High performance automatic series gate noise limiter for AM reception. IF limiting for SSB and CW reception.

RF CIRCUITS: Two highly selective tuned circuits couple signals to the low noise 6BZ6 RF stage and the 6BE6 mixer. An antenna trimmer is included so that any antenna may be used.

TUBE COMPLEMENT:

6BZ6—RF Amplifier
6BE6—HF Converter
6BE6—2nd Converter
6BA6—IF Amplifier
6BA6—IF Amplifier
12AX7A—Product Det—BFO
6TR—AM Det. ANL. AGC. Audio Amp
6CW5—Audio Output
5Y3GT—Pwr Rect
0B2—Voltage Reg

IF AMPLIFIER: Two high gain IF amplifier stages are used to provide maximum reserve gain.

PRODUCT DETECTOR: A true triode product detector with an exceptionally stable BFO provides clear, undistorted SSB and CW reception.

AM DETECTOR: A separate, well proven diode detector is used for regular AM reception.

TUNING RATIO: Built-in National vernier provides an unusually high tuning ratio of 60/1 on all bandspread ranges, making AM, CW, and SSB tuning remarkably easy. Main Tuning ratio is 12/1.

AUDIO AMPLIFIER: The audio amplifier is capable of producing more than a full watt of high quality, full frequency range audio output at the 3.2 ohm speaker terminals. A front panel earphone jack is also provided.

CALIBRATOR: An accessory calibrator unit produces strong, accurate 1MC marker signals through the entire tuning range.

CONTROL CIRCUITS: The NC-190 may be externally controlled by shorting two terminals of the "Calibrator" socket with the "STBY-REC" Switch in the "Standby" position. The Relay terminals on the rear of the set are shorted by the "STBY-REC" switch in the STBY position.

FLIP FOOT: Unique "Flip Foot" on receiver and matching speaker for maximum operating convenience.

POWER REQUIREMENTS: 105-125 volts AC, 50-60 cycles. Power consumption 75 watts.

DIMENSIONS: 8 $\frac{3}{4}$ " high; 15 $\frac{1}{4}$ " wide; 9" deep.

SHIPPING WEIGHT: 28 lbs.