

AMATEUR
RADIO
EQUIPMENT

hallicrafters



Picture the SR-2000 in your own shack



Special features

Receiver Incremental Tuning (RIT). This control enables operator to unlock receiver frequency and tune receiver ± 2 kc either side of transmit frequency. Essential for roundtable, net or CW

Choice of built-in VOX or PTT control on sideband and choice of manual or automatic break-in control for CW, providing maximum possible flexibility and operating convenience.

Noise blunker. Effective new true blunker type system that "turns off" IF amplifier momentarily when noise level greater than desired signal is present. Prevents noise pulses from reaching product detector without desensitizing receiver long enough to affect desired signal.

Heavy duty, smooth-action gear-driven tuning mechanism, with 1 kc readout display.

Amplified Automatic Level Control (AALC) functions in transmit mode to prevent splatter resulting from severe flat-topping of the final amplifier signal. Provides 15 db of compression at point where flat-topping begins to occur

Complete specifications on back page

SR-2000 SPECIFICATIONS

Additional features: Accurately calibrated VFO with excellent mechanical and temperature stability. Constant tuning rate on all bands. Crystal lattice 1650 kc filter with 6 poles for optimum selectivity and single sideband response. Product detector with crystal controlled beat frequency oscillator injection for maximum stability. Keyed sidetone for monitoring CW transmissions. Excellent cross modulation and overload characteristics. Complete metering for the final amplifier tubes—Separate plate voltage, plate current and screen current meters. "S" meter for receiver and RFO metering for transmitter tuning convenience. Built-in 100 kc crystal calibrator for exact dial calibration.

Types of emission: SSB, selectable USB/LSB with suppressed carrier. CW keyed RF carrier.

Frequency control: Self-contained VFO for transmit and receive modes. Separate transmitter frequency control available with Model HA-20 DX Adaptor unit.

Transmission control: Single Sideband Operation: MOX—Manual (Push-to-talk), VOX—Voice control. CW Operation: MOX—Manual, VOX—Automatic break-in.

Dial calibration: One kc increments, 500 kc tuning range. Internal 100 kc crystal controlled calibrator.

TRANSMITTER

Power input: SSB High Power—2000 watts PEP. SSB Low Power—1000 watts PEP. CW—900 watts maximum.

Power output: SSB High Power—1000 watts PEP. SSB Low Power—500 watts PEP. CW—500 watts.

Output impedance: 50 ohms nominal. Adjustable, 40 to 70 ohms essentially non-reactive.

Type of sideband generation: Solid state modulator with 1650 kc, 6 pole crystal filter. (Nominal 3 db BW=2.1 kc.)

Microphone input: High impedance. Input sensitivity of 5 millivolts RMS or less for PEP output.

Audio response overall: 500 to 2400 cps (6 db).

Distortion products: 30 db signal to distortion ratio.

Unwanted sideband rejection: 50 db below desired output at 500 to 2500 cps input.

Carrier suppression capability: 60 db below PEP output.

Spurious emission: 50 db or more below PEP output.

CW side tone: 800 cps nominal.

Tubes and functions: 12DK6 Receiver RF Amplifier; 7059 Receiver and Transmitter 1st Mixer; 7059 IF Amplifier and AALC Amplifier; 12AT7 2nd Receiver Mixer and VFO Amplifier; 7059 Noise Amplifier and Pulse Amplifier; 6GX6 1st 1650 kc IF Amplifier and Blanker; 7059 2nd 1650 kc IF Amplifier and Side Tone Amplifier; 7059 AGC Amplifier and Meter Amplifier; 12AT7 Product Detector and 1st Audio Amplifier; OA2 Voltage Regulator; 7059 2nd Transmitter Mixer and 100 kc Crystal Oscillator; 7056 Heterodyne Oscillator; 12BA6 VFO; 12AT7 BFO/Carrier Oscillator and 3rd Mic. Amplifier; 6AQ5 Audio Output; 8122 (2) Transmitter Power Amplifier; 12BY7A Transmitter Driver; 12AT7 1st Mic. Amplifier and 2nd Mic. Amplifier; 12AT7 VOX Amplifier and Relay Amplifier.

GENERAL SPECIFICATIONS

Calibration accuracy: Less than 2 kc error across the dial after indexing at high frequency end of the dial. Band to band calibration error less than ± 2 kc.

Frequency stability: Less than 250 cycles drift in first hour, after a fifteen minute warm-up, and less than 100 cycles per hour thereafter.

Cable connector data: Front Panel: MIC connector—Amphenol type 80-MC2M. PHONES jack—Standard 1/2-inch two conductor phone plug. Rear Cabinet: KEY jack—Standard 1/2-inch two conductor phone plug. ANTENNA connector—Mil. No. PL-259 (49190) UHF series. RCVR OUT-

PUT connector—Standard RCA type phono plug. POWER connector—Cinch-Jones type S-312-CCTL (12-pin plug). HI-VOLTAGE connector—Cinch-Jones type S-2402-CCT (2-pin plug). ACCESSORY connector—Amphenol type 86-PM11 (11-pin plug).

Power supply requirements: Model P-2000 (Refer to data for Model P-2000 Power Supply).

Dimensions (HWD): 7 3/4 x 16 1/2 x 15 inches.

Net weight: 26 pounds.

Shipping weight: 30 pounds.

RECEIVER

Antenna input: 50 ohms nominal.

Audio output impedance: 3.2 ohms and 500 ohms.

Sensitivity: One microvolt or less for 20 db signal to noise ratio.

Audio output: One watt with less than 10% distortion.

Dual conversion system: First IF= 6 MC to 6.5 MC. Second IF=1650 kc with crystal lattice filter.

Crystal lattice filter: Six pole, symmetrical passband. Center frequency= 1650 kc. B/W=2.1 kc (3 db). B/W=4.2 kc (50 db). Carrier frequencies: USB= 1651.550 kc. LSB=1648.550 kc.

AVC figure of merit: 60 db or more RF input change for less than 10 db change in audio output.

RIT frequency range: 4 kc minimum.

In band tweets: Less than one microvolt equivalent CW signal.

First IF rejection: Better than 50 db (4.0 mc and 7.0 mc). Better than 60 db at all other frequencies.

Image and spurious rejection: Better than 50 db.



P-2000 AC POWER SUPPLY

Styled as a companion unit to the Model SR-2000 Transceiver, the power supply contains the speaker and final amplifier plate metering facilities for the transceiver. The speaker is a 3 x 5-inch unit with a frequency response optimized for the voice frequency range.

Two meters provide for monitoring the final amplifier plate current (0 to 1 ampere) and plate voltage (0 to 5 kilovolts). The metering circuits employed permit the meter cases to operate at ground potential thereby avoiding a shock hazard.

Solid state silicon rectifiers are employed throughout for cool, maintenance free operation.

The power supply is shipped from the factory with the line cord wired and fitted with the plug for 115V, 2-wire service. A line cord plug is also supplied for use with 230V, 3-wire service.



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NEW SIX-MONTH WARRANTY

The warranty on your Hallicrafters SR-2000 Communications Transceiver and P-2000 Power Supply is hereby extended an additional 90 days beyond the normal 90 day warranty period specified on the inside front cover of the Operating and Service Instructions which came with your equipment. Should warranty service be required within 180 days from date of original sale it will be necessary only to present this certificate to establish warranty status.

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