

120 CHANNEL AM/FM/SSB/CW
TRANSCEIVER with ROGER BEEP
SUPER STAR 3600



OWNER'S MANUAL

Frequency Response AM and FM: 450 to 2500 Hz.
 Output Impedance 50 ohms, unbalanced.
 Output Indicators Meter shows relative RF output power and SWR. Transmit LED glows red when transmitter is in operation.

RECEIVER

Sensitivity SSB/CW: 0.25 μ V for 10 dB (S+N)/N at greater than 1/2-watt of audio output.
 AM: 0.5 μ V for 10 dB (S+N)/N at greater than 1/2-watt of audio output.
 FM: 1.0 μ V for 20 dB (S+N)/N at greater than 1/2-watt of audio output.

Selectivity AM/FM: 6 dB @3 KHz, 50 dB @9 KHz.
 SSB/CW: 6 dB @2.1 KHz, 60 dB @3.3 KHz.

Image Rejection More than 65 dB.

IF Frequency AM/FM: 10.695 MHz 1st IF, 455 KHz 2nd IF
 SSB/CW: 10.695 MHz.

Adjacent-Channel Rejection 60 dB AM/FM & 70 dB SSB/CW.

RF Gain Control 45 dB adjustable for optimum signal reception.

Automatic Gain Control (AGC) Less than 10 dB change in audio output for inputs from 10 to 100,000 microvolts.

Squelch Adjustable; threshold less than 0.5 μ V.

ANL Switchable.

Noise Blanker RF type, effective on AM/FM and SSB/CW.

Clarifier Range Coarse (TX/RX) \pm 7 KHz.
 Fine (RX) \pm 1 KHz.

Audio Output Power 4 watts into 8 ohms.

Frequency Response 300 to 2800 Hz.

Built-in Speaker 8 ohms, round.

External Speaker (Not Supplied) 8 ohms; disables internal speaker when connected.

Section I Specifications

GENERAL

Channels 120 FM, 120 AM, 120 LSB, 120 USB, 120 CW.

Frequency Range Low Band, 26.515 to 26.955 MHz.
 Mid Band, 26.965 to 27.405 MHz.
 Hi Band, 27.415 to 27.855 MHz.

Frequency Control Phase Lock Loop (PLL) synthesizer.

Frequency Tolerance 0.005%.

Frequency Stability 0.001%.

Operating Temperature Range -30°C to +50°C.

Microphone Plug-in dynamic; with push-to-talk switch and coiled cord.

Input Voltage 13.8V DC nominal, 15.9V max., 11.7V min. (positive or negative ground).
Transmit: AM full mod., 2.2A.
 SSB 12 watts PEP output, 2A.
Receiver: Squelched, 0.3 A.
 Maximum audio output, 0.7A.

Size 2-3/8"(H) x 7-7/8"(W) x 9-1/4"(D).

Weight 5 lbs.

Antenna Connector UHF, SO239.

Meter (3-in-1) Illuminated; indicates relative output power, received signal strength, and SWR.

TRANSMITTER

Power Output AM/FM/CW, 5 watts.
 SSB, 12 watts, PEP.

Modulation High-and low-level Class B, Amplitude Modulation: AM. Variable capacitance Frequency Modulation: FM.

Intermodulation Distortion SSB: 3rd order, more than -25 dB.
 5th order, more than -35 dB.

SSB Carrier Suppression 55 dB

Unwanted Sideband 50 dB