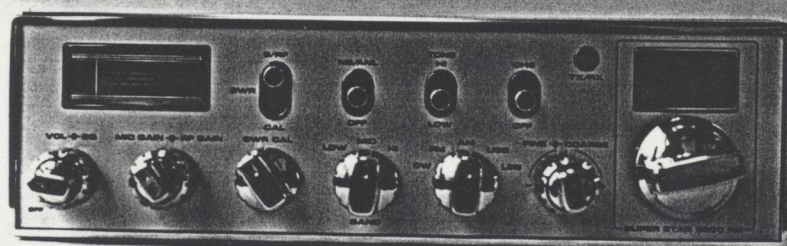


120 CHANNEL AM/FM/SSB/CW
TRANSCEIVER with ROGER BEEP
SUPER STAR 3600



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). <i>Transmit:</i> AM full mod., 2.2A. SSB 12 watts PEP output, 2A. <i>Receiver:</i> 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 Modu- lation: AM. Variable capacitance Frequen- cy 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

Frequency Response
Output Impedance
Output Indicators

AM and FM: 450 to 2500 Hz.

50 ohms, unbalanced.

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.

More than 65 dB.

Image Rejection

IF Frequency

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

Adjacent-Channel Rejection
RF Gain Control

60 dB AM/FM & 70 dB SSB/CW.

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.