

SR-160 SYSTEM FOR SALE



The cases need a paint job. The circuitry has been refurbished. Performance data is attached below.

SYSTEM:

R/T unit SR-160	\$300.00
Power supply PS-150-120	\$220.00
HA-16 VOX accessory	\$ 45.00
CM14N dynamic microphone	\$ 55.00
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	\$620.00





Microphone is a Shure CM14N dynamic (CONTROLLED MAGNETIC CARTRIDGE). The cartridge is not switched, allowing for MUX or VOX operation. It is the RANGER II, 414A microphone relabeled for Hallicrafters by Shure.

VI, PERFORMANCE DATA SHEETS

VI-1, SR-160 PERFORMANCE DATA RT 416002-425016
PS 715000-337029

VI-1-1, RECEIVER PERFORMANCE:

Overall Sensitivity (gain)

The receiver will produce 500 mw audio out with 1.5 uv RF signal at the antenna terminal.
Tests performed at center of General Class bands

BAND	TEST FREQ	SIG REQ FOR 500mw
80	3.900MHz	0.47 μ V
40	7.300MHz	0.6 μ V
20	14.300	0.5 μ V

Overall Sensitivity (S+N:N)

A 1.0uv signal at the antenna terminal will produce a minimum 20db s+n:n.

BAND	TEST FREQ	SIGNAL LEVEL	S+N:N MEASURED
80	3.900MHz	1.0uv	24 db
40	7.300MHz	1.0uv	23 db
20	14.300	1.0uv	23 db

AGC Figure of merit

With a signal at the antenna terminal from 5uv to 1500uv no more than a 10 dB variation shall occur.

MEASURED CHANGE	8.2 db
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"S" METER CAL

The S meter will read S-9 when between 25 and 100uv are injected at the antenna terminal.

LEVEL FOR S-9	100 μ V
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SR-160 PERFORMANCE DATA

VI-1-2 TRANSMITTER PERFORMANCE SN 416002-425-016

Tests performed with 50ohm resistive load. Measurements made with BIRD avg power and PEP power meter.
Bench power 122.3 VAC

Final amplifier bias set to 60 ma SSB mode zero drive. ↙

Neutralization performed @ 14.150 MHZ. ↙

Carrier balance null 17 dB below full power output level.

Microphone input sensitivity at 1000HZ. A signal level not more than 8 mv RMS shall produce the minimum specified SSB output at specified freq. with the mic gain set between 50 and 75% of full rotation.

Minimum spec power achieved at 50 % of mic gain rotation with 8 mv audio input.

CW power output with RF level set just to saturation level.

FREQ	MIN SPEC	AVG POWER
3.9mhz	60 W min	<u>122 w</u>
7.23mhz	65 W min	<u>130 w</u>
14.28mhz	60 W min	<u>115 w</u>

SSB PEP power output mic gain set just at saturation.

FREQ	MIN SPEC	PEP
3.9mhz	65 W min	<u>138 w</u>
7.23mhz	70 W min	<u>138 w</u>
14.28mhz	65 W min	<u>125 w</u>

SSB TX AUDIO RESPONSE.

From 600 Hz thru 2700 Hz there will be no more than 3 dB change in output power.

Tune transmitter at 3.900 MHz do not exceed the duty cycle of the TX.

Mic audio input set for 8 millivolts at 1000Hz, LSB, set mic gain for 50 watts output.

Set audio freq to 600Hz, 8 mv. TX PEP not less than 25 watts 110 watts

Set audio freq to 2700Hz 8 mv. TX PEP not less than 25 watts 110 watts

Manually sweep audio osc from 600 HZ to 2700 HZ if multiple peaks occur within the pass band there will be no more than 2db from the peak to valley between. <1 Db.

