20 Years of Precision Short Wave Experience to Reach

This Peak of Perfection!



Hallicrafters SY-88 communications receiver

Only Hallicrafters, drawing on an unmotched fund of experience in short-wave, could have brought you this set. It embodies engineering skills and manufacturing economies that took twenty years to build. And now, here it is! A receiver with more features and finer performance per pound of weight—per cubic inch of space—per dollars of cost—than any receiver ver built!

Look at this new SX-88 however you will—compare it in any way you can think of with any other communications receiver—and you'll agree—this it, a new peak of perfection!

Only Hallicrafters SX-88 Brings You All These Features - Everyone a Necessity Today!

- Full precision gear drive for main and hand spread tun-Six position Band Width Con-
- trol (selectivity) from 250 cycles to 10 kc. 10 watt inverse feed back
- and push-pull audio output. Exhalted B.F.O. for tops in
- single side hand recention Buffer amplifier in B.F.O. cir-
- Antenna trimmer.
- Amplified and delayed
- A.V.C. operates for C.W. re-
- ception. Built-in 100 kc calibration

crystal.

- Second conversion oscillators cyrstal controlled.
- Local oscillator circuits individually temperature compensoted for each bond
- Inertia tunion (fly wheels both dials).
- Full frequency coverage from 535 hr to 33 3 ms
- Calibrated electrical band spread 160, 80, 40, 20, 15, 11, and 10 meters.
- Logging scales on each tuning shaft,
- Diel locks on each tuning shoft.
- Tuning dial indicators resetable from front namel for maximum calibration accu-
- of chassis.
- Muminated band-in-use indicator
- Illuminated S meter.

- Dual S meter calibration S units and microvalts
- Auxiliary power socket plus 6 amps at 6.3 valts and 10 mg at 150 valts for acces-
- Standard 8 % " by 19" panel for rack mounting if desired.
- 50 kc i.f. output jack via cathode follower for teletyne converter, oscilliscopes, etc.
- Five position response control (tone control).
- 17 tubes plus voltage regulator, current regulators and

Front Panel Control

Main tuning

Volume: 0-10 and AC/off Band width in ke: 10, 5, 2 1/4. 1 ¼ . .5 and .250.

Pitch: IB F Q 1 +5-0-5 Response: Bass Boost, High Fidelity, Normal, Communica-

Antenna trimmer +5-0-5 Sensitivity 0-10.

Front Panel Toggle Switch

Noise limiter on/off. A.V.C. on/off. Calibrator on/off Receiver standby. C.W. - AM - SSSC (single side band suppressed carrier).

Chassis Rear

Speaker terminals 3.2/8/500-600 ohms. Antenna terminals 52-600

AC Accessory socket 117 volts at 250 watts

Power socket - Octol for ex-

ternal power supply to receiver, such as batteries, and in addition this socket supplies 6.3 volts at 600 ma and 150 dc at 10 ma for future accessories. Audio Input-phono jack

Fuse holder for AC power cir-

Frequency Range (Main tuning dial)

Band 1-535 to 1710 kc. Bond 2-1690 to 3080 kc. Bond 3-2980 to 5570 kg Bond 4-5370 to 10 000 be Band 5-9.8 to 18.3 mc. Band 6-17.8 to 33.3 mc

Sensitivity

Bands 2 - 6 - 1 microvolt for Wwest output I microvolt for 10 db signal Rend 1-10 microvolts for 1/2

watt output. **Image Rejection**

Not less than 80 db on frequencies lower than 20 mc Not less than 60 db on frequencies from 20 to 30 mc

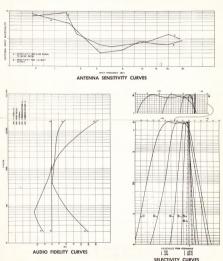
Spurious Responses (I.F. and oscillator tweets)

Not less than 80 db except of 1700 kc where it is not less than 50 db.

Band Width-(Selectivity)

Position	6 db (nose)	60 db (skirts)	
10 kc	10 kc	21. kc	
5 kc	5 kc	15. kc	
2.5 kc	2.5 kc	7.5 kc	
1.25 kc	1.25 kc	3.75 kc	
.500 kc	500 cps	1.50 kc	
.250 kc	250 cps	850 cps	

These Graphs Tell the Story Compare With Any Other Receiver!



TUBES AND FUNCTIONS SX-88

10	DES MIND FOR	CHONS 3V-00	
st R.F. amplifier	6CB6-	Detector and A.N.L.	6AL
nd R.F. amplifier	6BA6	B.F.O.	6C
st converter / st oscillator	6U8	B.F.O. amplifier AVC rectifier and IF output —	68A
Ind converter	óBAó	Audio amp, and phase inv.	12AX
and oscillator	12AT7	Push pull audio output (2)	6V
st 50 kc I.F. amplifier	6BA6	Voltage regulator	0D
nd 50 kc l.F. amplifier	6BA6	1st oscillator filament current reg.	4H-
lrd 50 kc I.F. amplifier	6BA6	Power rectifier	5U40

Specifications subject to change without notice

GENERAL CIRCUIT DESCRIPTION

This receiver employ dual conversion throughout its entire husing range of 535 ke to 33.3 Mc. This range is covered in its huning hands, the first huning a frequency ratio of 3.1 and the remaining five 2.1. This second conversion oxiditations are quants crystal extended. Dood that I.F. frequencies of 2.025 Mc and 1.550 Mc, are employed to elimination any goal in the triving range. The tecould F. is at 30 kc and employes eight tuned circuits. Variable selectivity is achieved by thoughing the degree of copoling between these eight tuned circuits.

MECHANICAL DESCRIPTION

his receive is 20" wide, 10½" high, and 18½" deep everall, It may be removed from the metal cobiner for standard relay rook mounting as the ponel is 8½" high by 19" long and is nothed for standard rooks. The depth behind the frost ponel is 17". The pocked weight of the receiver is 92 lbs, and unpocked is 19" by 15". The minit suning control are complete goal drive systems and the rails of each it 501. The tuning distri are complete goal drive systems and the rails of each it 501. The tuning distri are complete goal drive systems and reproduce scales are outcomestically intermed through the translation of the standard scale and the rails of each it of the standard scale and the rails of each it of the standard scale and the rails of each it of the standard scale and the scale



MODEL HT-20 TRANSMITTER

T.V.I. suppressed 100 weat AM-CW transmitter with all spurious outputs above 40 Mc or least 90 db below full rated output.
All stages metered, single meter with eight position meter switch, output tuning indication. Frequency range of 1.7 Mc to 31 Mc continuous on front panel control. Provisions for

ternal VFO. Gray steel cobinet 20" x 121/4" x 171/4" deep, Ship, wt, 130 Ibs, Seven tubes plus five rectifiers, For 105/125 V, 50/60 cycle AC.



MATCHING R-46A SPEAKER

Matching 10" PM speaker for use with Hallicrafters communications receivers SX-88, SX-71, SX-76, SX-73, or SX-62. 80 to 5000 cycle range. Speaker voice coil impedance, 3.2 phms.

Black steel cabinet matches SX-71 and other Hallicrafters cabinets. Cloth covered metal grille. 15" x10-7/8" x10-7/8" deep. Ship wt. 17 lbs.

hallicrafters

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