

NEW ENGLAND'S OLDEST AMATEUR DISTRIBUTOR

CATALOG

47



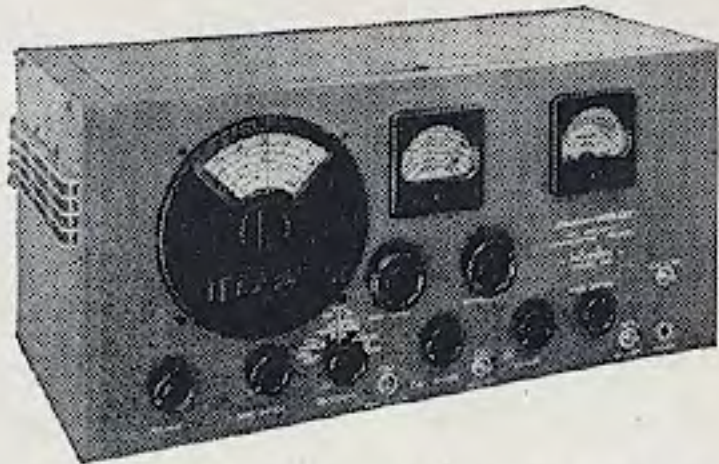
The
RADIO SHACK
Corporation

167 WASHINGTON ST.
BOSTON, MASS., U. S. A.

WHOLESALE DISTRIBUTORS OF RADIO AND ELECTRONIC EQUIPMENT

Hallicrafters Communication Receivers

Model SX-24 Skyrider Defiant



The Skyrider Defiant provides performance that can be compared favorably with most receivers selling at twice the price. Every advanced feature of the entire Hallicrafters line is incorporated in this unit. Four bands cover the range from 545 kc to 43.5 mc; frequency meter tuning on 10, 20, 40, and 80 meter amateur bands. Tube lineup: 3-6SK7, 1-6K8, 1-6SQ7, 1-6F6G, 1-6H6, 1-76, and 1-80 rectifier. Controls include r.f. gain, selectivity switch, crystal phasing, audio gain, pitch control, main tuning control, bandspread tuning control, automatic noise limiter switch, Hi-Lo tone control, send-receive switch and beat frequency oscillator switch. Outstanding features of this remarkable receiver include: one stage of pre-selection, DC selectivity from sharp CW crystal to high-fidelity, meter calibrated in both S and DB units, single-signal crystal filter and terminals for break-in relay operation. Cabinet dimensions are: 19½" long x 9½" high x 10 ¼" deep. Shipping weight 41 lbs.

Model SX-24 Skyrider Defiant complete with tubes and crystal but less speaker. \$69.50
CASH PRICE

Terms: \$6.95 down, \$8.29 per month for 8 months.

10" PM Dynamic Speaker in matching cabinet. Shipping weight 17 lbs. \$12.00
YOUR COST

Model SX-25 Super Defiant



One of the finest values that Hallicrafters has ever offered in the communications field. Many outstanding features! Extreme selectivity and more and better audio amplification. Automatic noise limiter, separate calibrated band spread dial for the 10, 20, 40, and 80 meter bands, compensated ultra-stable oscillator, six-step variable selectivity control, "S" meter, 8-watt push-pull output stage, laboratory checked piezo quartz crystal filter, matched 10" heavy duty PM speaker in modernly styled cabinet. Four tuning bands cover the complete range from 540 kc to 42 mc. The tube lineup: 6SK7 1st r.f. amp.; 6SK7 2nd r.f. amp.; 6K8 1st detector-mixer-h.f. oscillator; 6SK7 1st i.f. amp.; 6SK7 2nd i.f. amp.; 6SQ7 2nd det.-AVC-1st audio amp.; 6SQ7 phase inverter; 2-6F6 p.p. output stage;

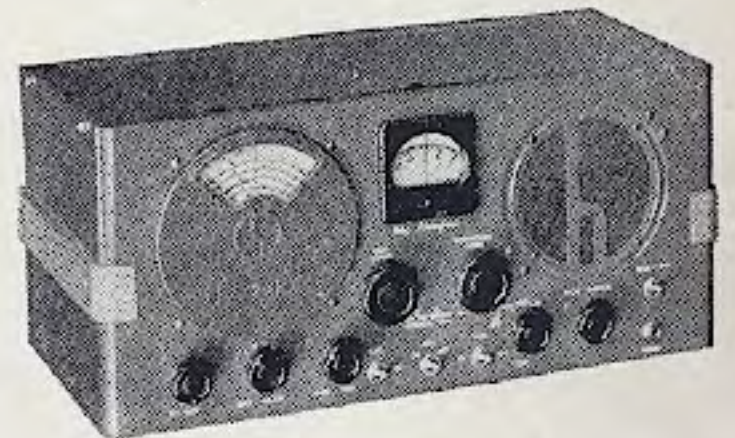
6H6 automatic noise limiter; 6J5GT beat frequency oscillator and 80 rectifier. There are external provisions for: send-receive terminals, headphones, 5,000 ohm or 500 ohm output, single wire or double antenna. Both i.f. stages are expanded in the "Broad IF" position for high fidelity performance. The automatic volume control circuit keeps most signals at a uniform level. The automatic noise limiter reduces interference by as much as 70%. The extremely low noise level of the Super Defiant makes it sensitive to very weak signals. Cabinet dimen.: 19½" long, 9½" high and 11 ¼" deep. For 110 V. 50/80 cycle a.c. operation and a socket is provided for d.c. operation from either batteries or a vibra-pack. Weight, 67 lbs.

Model SX-25 complete with tubes, crystal and speaker. \$99.50
CASH PRICE

Terms: \$9.95 down, \$7.91 per month for 12 months.

The "Sky Champion" S-20R

Sky Champion! Winner for quality performance—A favorite with the Short-Wave DX fan and Amateur operator. Among its many features are: separate Bandspread dial, RF and AF gain controls, individual coils for each band, inertia tuning mechanism, Beat Frequency Oscillator, AVC switch, Tone Band switch, phone jack, and others. Continuous tuning in four overlapping bands from 545 KC to 44,000 KC for dependable reception on Broadcast, Amateur, and Short-Wave bands. Nine tubes: 3-6SK7, 6K8, 6SQ7, 6F6, 6J5GT, 6H6, and 80—are arranged in a circuit which provides maximum gain, selectivity, and sensitivity. Speaker is built-in. Signal-to-noise ratio is surprisingly high. In fact, in every way, the Sky Champion is an efficient low-priced receiver that will put a thrill into Amateur operation. It offers professional styling, operating flexibility and performance that are truly outstanding. Has provisions for operating from batteries or from vibrator type power pack and 6 V. storage battery, thus making it an ideal unit for mobile-portable operation, or for emergency service at locations far removed from the 110 volt AC supply lines. For 110 V. 50-60 cycles AC.



S-20R. With tubes. NET CASH PRICE \$49.50
Time Payments: \$4.95 down, \$5.90 monthly for 8 months.



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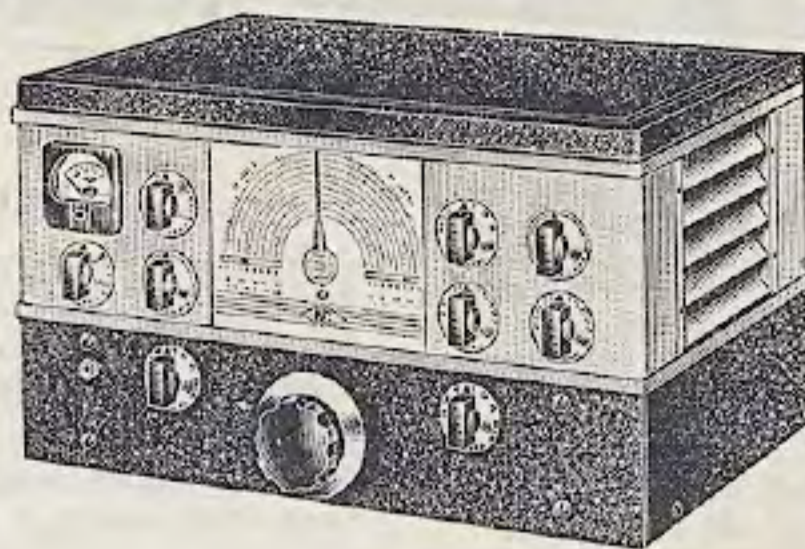


THE NEW NC-200 COMMUNICATIONS RECEIVER

The National NC-200 receiver with its many newly developed features represents one of the most outstanding developments of the famous National engineering staff. Twelve tubes are used for maximum performance, each tube selected to provide the most desirable operating characteristics for the individual circuits. Tubes used are: 6SK7 Tuned RF stage, 6K8 First Detector, 6J5 HF Oscillator, 6SK7 1st. IF, 6SK7 2nd. IF, 6C8G Second Detector-Limiter, 6SJ7 AVC, 6SJ7 BFO, 6F8G Phase Inverter, 2-6V6 Push-pull Audio, and 5Y3G as rectifier.

A full-vision dial operated through a 30-1 gear drive is accurately calibrated on ten frequency ranges. Six of these ranges are for general coverage over the total tuning range from 490 to 30,000 KC; four additional ranges provide calibrated bandspread of the Amateur 80/40/20/10 meter bands. Automatic range-in-use indicator is built in the dial. Bandspread on amateur bands is extremely generous, covering most of the 180° dial scale; no resetting is necessary to return to any pre-logged station or frequency. Uniform bandspread is provided through a unique tapped coil arrangement similar to that used in the famous HRO receiver, and the same knob used for TUNO is used to shift bands through a clever mechanical device developed especially for the NHU and NC-200 receivers.

The sensitivity of the NC-200 is particularly high, with an input signal of only 1 microvolt providing 1 watt of audio output. Newly developed RF coupling circuits provide full sensi-



tivity up to the extreme high end of the tuning range at 30 MC. All RF and IF coils are wound on molded polystyrene coil forms, assuring freedom from circuit losses caused by humidity. All critical components, such as tuning and trimming condensers, are insulated with isolantite, to insure high stability at all frequencies.

Temperature compensation in the high frequency oscillator, RF stage, and first detector circuits reduces frequency drift to a negligible value. Six step selectivity is provided by a new type of crystal filter with equal utility for either phone or CW reception. Other important features are: Wide range adjustable series-valve-noise limiter, calibrated signal level meter, pro-

vision for battery operation in emergencies, Standby switch, separate 10" PM speaker in matching metal cabinet, attractive modern cabinet finished in two-tone gray and chrome, self-balancing phase inversion circuit, 8 watts undistorted audio output, image ratio of better than 30 db, separate high frequency oscillator and first detector tubes, absolute minimum of inherent circuit noise, and an attenuator type tone control.

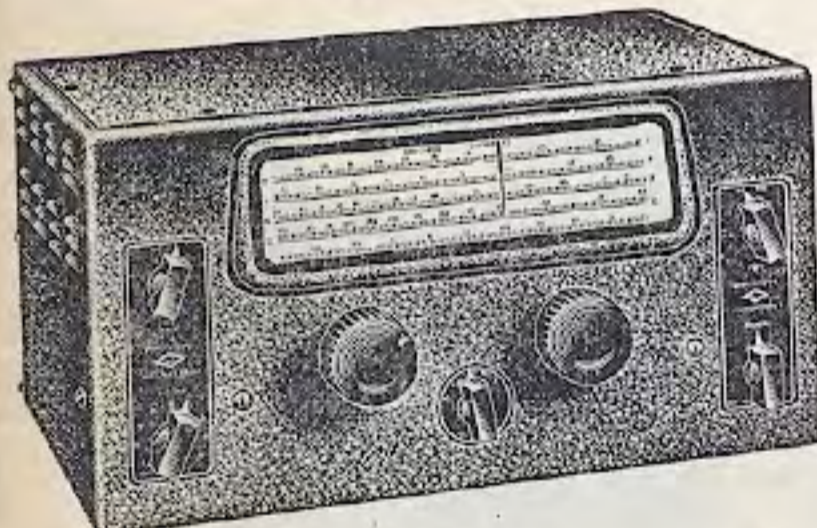
All controls are conveniently grouped for maximum simplicity in operation. Controls include: Combination tuning and bandchange knob, RF and AF gain controls, BFO on-off and variable pitch, 3 position fil.-plate-standby switch, Crystal selectivity, Crystal phasing. For the critical amateur and commercial operator, the high selectivity and sensitivity provide a type of overall performance never before available in a receiver so moderately priced. In addition the new band-changing and bandspreading features provide a flexibility that will bring words of praise from even the most critical and hard-to-satisfy operator.

The NC-200 is supplied complete with tubes crystal, speaker and instructions. For 110 volts 60 cycles.

Cat. No. S14300 National NC-200 Communications Receiver as described.

Net Price **\$147.50**
Terms: \$14.75 down; \$11.73 a month for 12 months.

Model NC-44



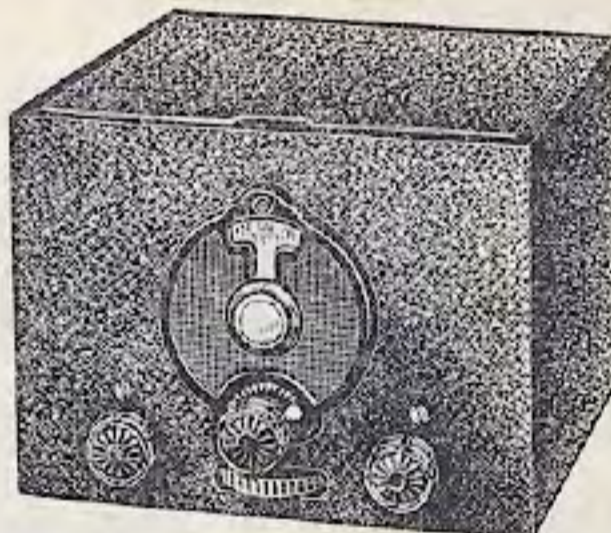
A communications type receiver capable of fine performance on AC or DC—and at a low price. Completely self contained except for the speaker, it employs seven tubes in a modern superheterodyne circuit. Uses a 6K8 first detector and oscillator having exceptional stability and conversion gain. Other features include: two 456 kc i.f. stages; 2nd detector and AVC tube; CW oscillator and a 25L6G "beam-power" output tube that provides 2 watts of audio. Separate controls for r.f. and a.f. gain; "on-off" switches for AVC and CWO operation. Accurate tuning is insured by the use of a full vision dial calibrated in frequency for each range covered; separate linear scale for the band spread condenser. A straight line frequency condenser is used in conjunction with a separate band-spread condenser. Both condensers have inertia type drive. Coil switch has silver plated contacts and selects any one of 4 ranges, covering from 550 kc to 30 mc. Provisions for headphone operation. Like all receivers having no preselector stage, the NC-44 is not free from images but, where price is an important factor, it will be found a satisfactory receiver. In black crackle finish metal cabinet, 8 1/2" high, 17" wide, 10 1/2" deep. For 110 volts 50/60 cycles AC or DC.

Cat. No. S14301 Model NC-44 complete with tubes, coils, power supply, and separately housed speaker.

Net Price **\$49.50**
Terms: \$4.95 down; \$5.90 a month for 8 months.

The NC-44 is also available for battery operation, straight AC operation, and relay rack mounting. Write for details and prices.

Model SW-3



Circuit comprising one RF stage, regenerative detector, and one stage impedance coupled audio gives maximum sensitivity and flexibility with fewest tubes and least auxiliary equipment. Single dial operates precisely adjusted 2-gang condenser; smooth, noiseless regeneration control has no back lash or fringe howl; volume control calibrated in nine steps corresponding to the "R" scale.

Cat. No. S14302 Model ACSW-3 for AC operation

Cat. No. S14303 Model 6-DCSW-3 for 6 v. DC operation

Cat. No. S14304 Model 2-DCSW-3 for 2 v. DC operation

Any model, less coils, phones, tubes, or power supply. Net Price **\$21.00**

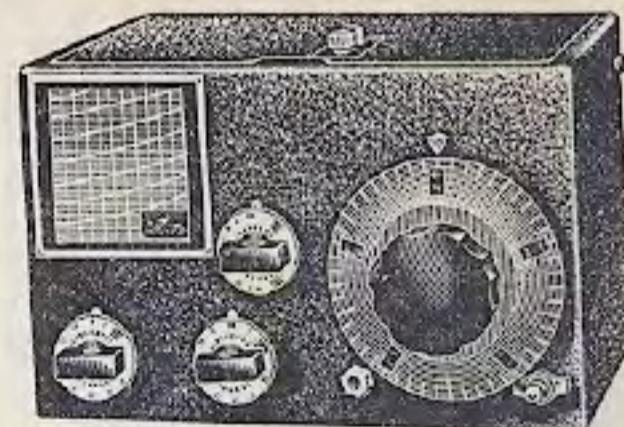
Cat. No. S14305 Model 5880-AB power supply, for ACSW-3, 110 v. 60 cycle, with tube.

Net Price **\$17.70**

General Coverage Coils

Type	No.	Range	Net Price
AC	DC	Meters	Per Pair
60	10	9-15	\$3.00
61	11	13.5-25	3.00
62	12	23-41	3.00
63	13	40-70	3.00
64	14	65-115	3.00
65	15	115-200	3.00
66	16	200-360	3.30
66	17	350-550	3.30
68	18	500-850	3.90
69	19	850-1,200	4.80
70	20	1,200-1,500	4.80
71	21	1,500-2,000	4.80
72	22	2,000-3,000	6.00

National One-Ten



Designed chiefly for the experimenter, the One-Ten Receiver fulfills the need of the experimenter for an adequate receiver to cover the field between one and ten meters.

A four tube circuit is used, composed of one tuned R.F. stage, a self-quenching super-regenerative detector, transformer coupled to a first stage of audio which is resistance coupled to the power output stage. Tubes required: 954-R.F.; 955-Detector; 6C5-1st Audio; 6F6-2nd Audio.

Cat. No. 14306 Type 110 Receiver with 6 sets of coils; less tubes, power supply, and speaker
Net Price **\$51.00**

Cat. No. 14307 Type 5886 power supply with tube
Net Price **\$17.70**

Cat. No. 14308 Kit of tubes 4 for One-Ten
Net Price **\$9.08**

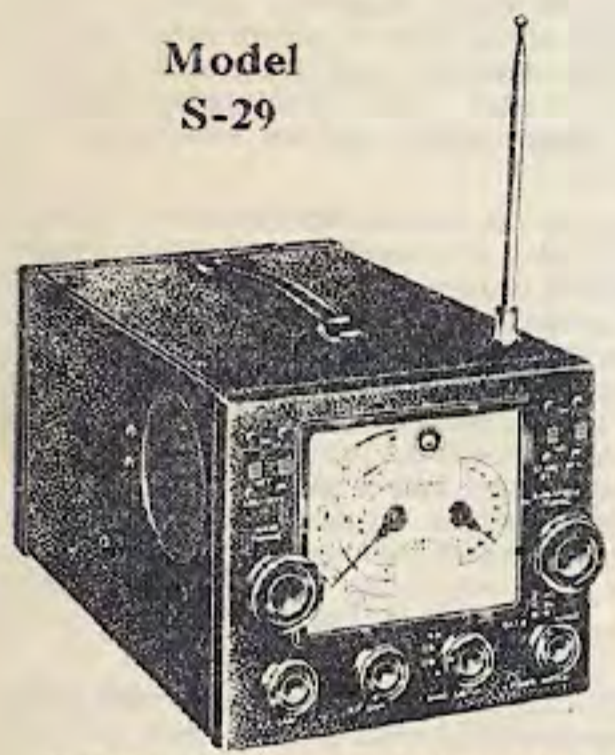
Band Spread Coils for SW-3

Type	No.	Band	Net Price
AC	DC	Meters	Per Pair
60A	10A	10	\$3.00
61A	11A	20	3.00
63A	13A	40	3.00
64A	14A	80	3.00
65A	15A	160	3.00

hallicrafters

COMMUNICATION RECEIVERS

Model S-29



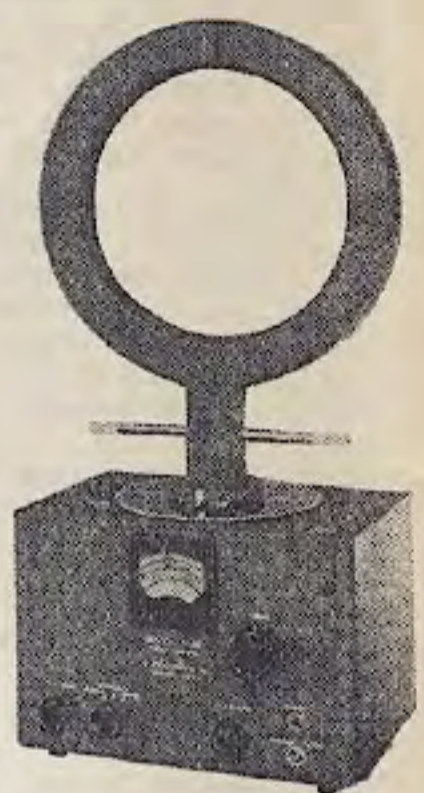
Sky Traveler

A portable receiver designed to communications receiver tolerances, the Sky Traveler is truly universal, operating from its self-contained batteries and on either 100 volt AC or DC lines. Four bands: 542-1490 kc., 1.43-4.35 mc., 4.12-11.9 mc., 11.26-30.5 mc. Average sensitivity on all bands, below 2 microvolts; electrical band spread; automatic noise limiter; self contained, collapsible antenna with high gain coupling. Nine tubes: one each 1T4 RF amp., 1R5 mixer, 1P5-GT 1st IF, 1P5-GT 2nd IF, 1H5-GT 2nd det. AVC, 1st audio, 3Q5-GT output amp., 1G4-GT beat osc., 1G4-GT noise limiter, and 25Z5G rectifier.

The Sky Traveler is contained in a rigid aluminum case 7" x 8 1/2" x 13 1/2" with black crackle finish and rounded corners. Weight including batteries is 18 pounds. Neon lamp shows when tubes are lighted, self-contained charging circuit prolongs battery life. Battery life is about 100 hours.
 Cat. No. S13609 Model S-29 Sky Traveler, complete with batteries and tubes. Net Price \$59.50
 Kit of replacement batteries for Sky Traveler.
 Cat. No. S13610 Net Price \$2.60

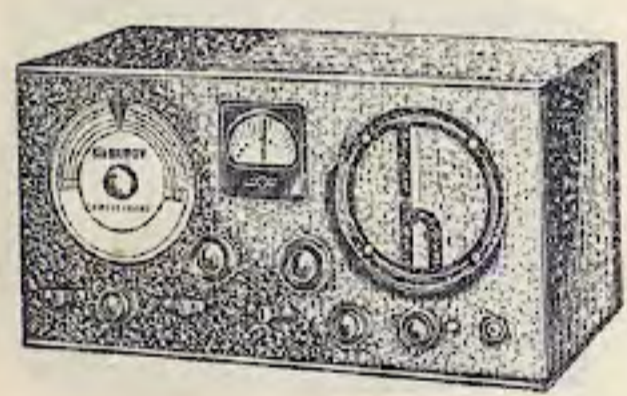
Radio Compass Model S-30

With this radio compass and direction finder aboard, you know your position at any time by checking against beacon, broadcast, or shore radiophone stations. Three-band receiver covers beacons—220-540 kc, broadcast stations—535-1340 kc, and marine band—1200-3000 kc. Separate controls for RF and AF gain. Sensitive headphones and tuning eye indicate bearings. Receiver housed in welded aluminum case 11" x 10 1/2" x 7 1/2"; 12" rotatable loop mounted in aluminum casting; overall height, 23 1/2". Separate power supply is well filtered vibrapack for 6 volt battery operation. Battery box for "A" and "B" batteries available. Tubes are 6SK7 RF amp., 6K8 mixer, 6SK7 IF amp., 6SQ7 2nd det. AVC, 6U5G tuning indicator, and 6G6G output amplifier. Auxiliary speaker may be used if desired.



Cat. No. S13611 Model S-30 Radio Compass complete with tubes, headphones, and 6 volt vibrapack power supply. Net Price \$99.50

Sky Buddy



*Six tubes. *Tunes 10 meter band.
 *Electrical bandspread. *Coverage and bandspread from 545 KC to 44 MC. *DC operation socket—battery or vibrapack.

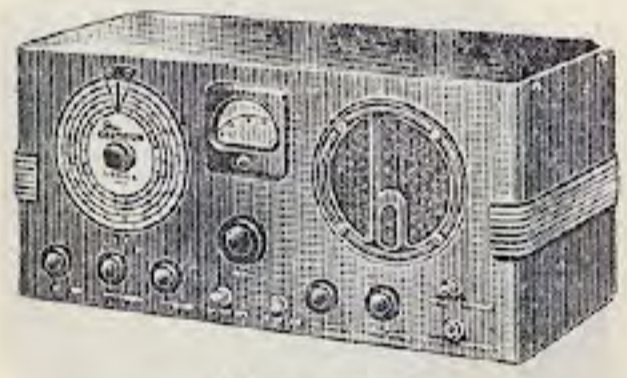
The new Sky Buddy is an amateur receiver in every respect, covering everything on the air from 44 mc to 545 kc, including the 10, 20, 40, 80 and 160 meter amateur bands. It now employs the same electrical bandspread system used in higher priced Hallicrafter models. Controls incorporated are: AF gain control, band switch, combined AVC and beat oscillator switch with AVC on, AVC off, and Beat oscillator on with AVC off positions; phone jack, send-Receive switch; pitch control. The speaker is an integral part of the receiver, nothing else to buy. Bandspread is better than A.R.R.L. Handbook recommendations for bandspread against scale calibration. Equipped for either Doublet or Marconi antenna. For 110-120 volt, 50-60 cycle, AC current. Dimensions: 17 1/2" long, 8 1/2" deep, and 8 1/2" high.

Cat. No. S11583 Including tubes and speaker.
 Net Price \$29.50

Time Payment Plan

Down Payment	Per Month for Six Months
\$4.43	\$4.43

Skyrider Marine



Marine S-22

*Coverage—16.2 to 2,150 meters (140 KC to 18.5 MC). *4 Bands.
 *8 Tubes. Beat Frequency oscillator.

An 8-tube receiver designed especially for the commercial frequencies that can be readily adapted for marine work. In its design, special emphasis has been placed on 600 meter and 700 meter operation. Tunes from 16.2 to 2,150 meters (18.5 MC to 140 KC) on 4 bands as follows: Band No. 1—2,150 to 645 meters (140 KC to 465 KC); Band No. 2—645 to 199 meters (465 KC to 1,510 KC); Band No. 3—177 to 53 meters (1.7 MC to 5.8 MC); Band No. 4—54.5 to 16.2 meters (5.8 MC to 18.5 MC). Sensitivity and selectivity are excellent. Improved image rejection at the higher frequencies is achieved through the use of 1,600 KC—IF transformers. The directly calibrated 338° main tuning dial eliminates the use of complicated charts and tables, and an efficient mechanical band spread with separate dial provides easy and simplified tuning. Mounted in sturdy metal cabinet finished in black. For operation on 110 volt AC or DC.

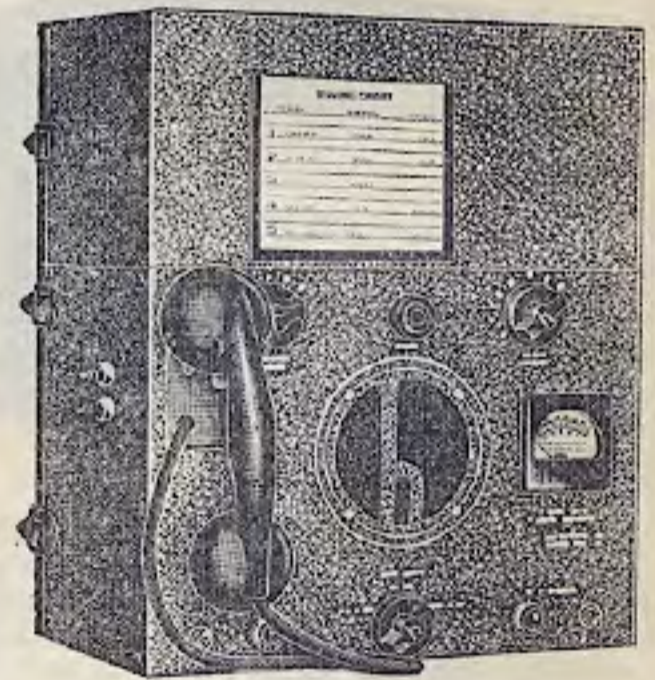
Tube complement—6K7, RF amplifier; 6L7, first detector; 6J5, high frequency oscillator; 6K7, IF amplifier; 6Q7, second detector; AVC and first audio; 25L6 power output tube; 25Z5, rectifier; 6J5, B.F.O.

Cat. No. S8209 Skyrider Marine, including tubes and speaker.
 Net Price \$64.50

Time Payment Plan

Down Payment	Per Month for 8 Months
\$6.45	\$7.69

HT-8 25-Watt Marine Radio Telephone



The HT-8 radiotelephone transmitter-receiver is the ideal unit for any type of craft, commercial or pleasure. It is designed to operate equally well on sailboat, power cruiser, large yacht, fishing boat, tug, barge or freighter. Up to 5 frequencies will be furnished between 2,000 and 3,000 KC, or if desired, 1 or 2 of the 5 frequencies may be in the range of 3,000 to 6,000 KC. The very effective squelch circuit prevents static and noise from appearing in the loud speaker output when no carrier is present. Hence, the receiver may be left tuned to any station frequency without annoying bursts of static drumming on the ears. Simple to operate. 7-tube receiver. No tuning required. Quartz crystal controlled transmitter. Separate power supply. 25 watts phone carrier. Handset or speaker output. A pleasure and a convenience in fair weather, the HT-8 is a life-saver in time of emergencies.

Model HT-8—Desk mounting type for 12, 32 or 110 volts DC as specified and 110 volts AC operation. Dimensions 20" x 15" x 9" high. Complete with tubes, separate power supply, less crystals.

Cat. No. S11588 Net Price \$2 5.00

Model HT-8—Bulkhead type. Dimensions 15" x 10" x 18" high. Specifications same as above.

Cat. No. S11589 Net Price \$295.00



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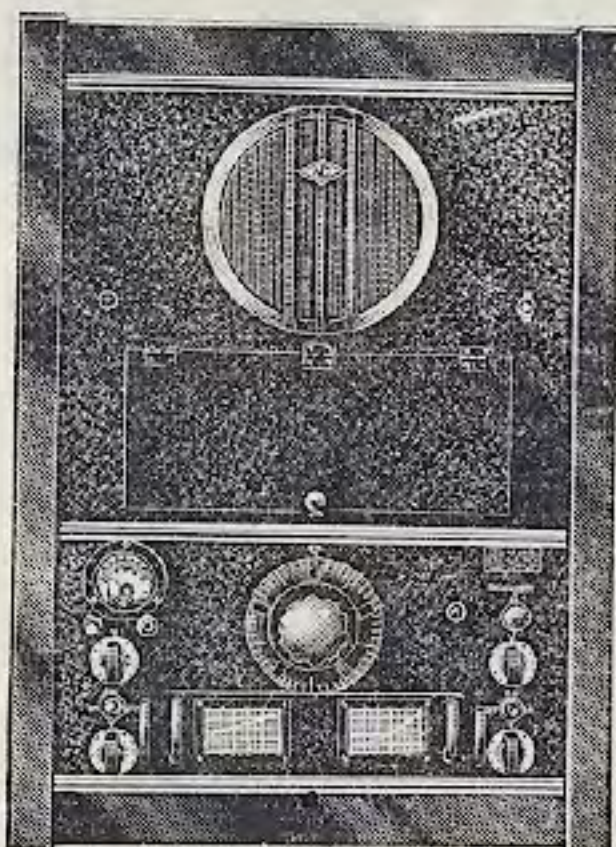
National HRO

The world's finest communications receiver, available in styles to suit every requirement. The model illustrated here is the type HROC, complete with de luxe relay rack, power supply, speaker, and five-compartment coil storage cabinet. This assembly is a handsome and convenient unit for table or desk use. Chrome strips between the individual units and across the speaker grill match other new, streamlined features.

Here are the features that have established the HRO as pre-eminent in the field of radio communication: two preselector stages giving remarkable image frequency suppression, response to weak signals, and high signal-to-noise ratio; two high gain I.F. stages employing Litz-wound coils and air tuning condensers; automatic as well as manual volume control; vacuum tube voltmeter calibrated in "S" units for carrier intensities; phone jack; Send-Receive switch; and Lamb single-signal crystal filter. This filter makes selectivity adjustable over a wide range, and the circuits are so precisely balanced that heterodyning signals may be completely phased out. The usable sensitivity and selectivity of the HRO are truly exceptional.

When standard HRO coils are used for general coverage, each of the 4 coils includes two amateur bands and the spectrum between. A simple switching device makes these same coils bandspread their respective amateur bands (except 160 meters) over a span of 400 dial divisions.

For those who require the high performance of the standard HRO, but do not need its extreme versatility, the HRO Junior has been made available. This receiver exactly duplicates the circuit and mechanical details of the standard HRO but is greatly simplified through the omission of the Lamb single-signal crystal filter and the "S" meter and by designing the coils for continuous band spread only.



Accessories

Coils for HRO Junior, general coverage only.

Cat. No.	Type No.	Range	Net Price
S14138	JA	14-30 M.C.	\$9.90
S14319	JB	7-14.4 M.C.	9.90
S14320	JC	3.5-7.3 M.C.	9.90
S14321	JD	1.7-4.0 M.C.	9.90

ADDITIONAL COILS FOR HRO OR JUNIOR
GENERAL COVERAGE ONLY

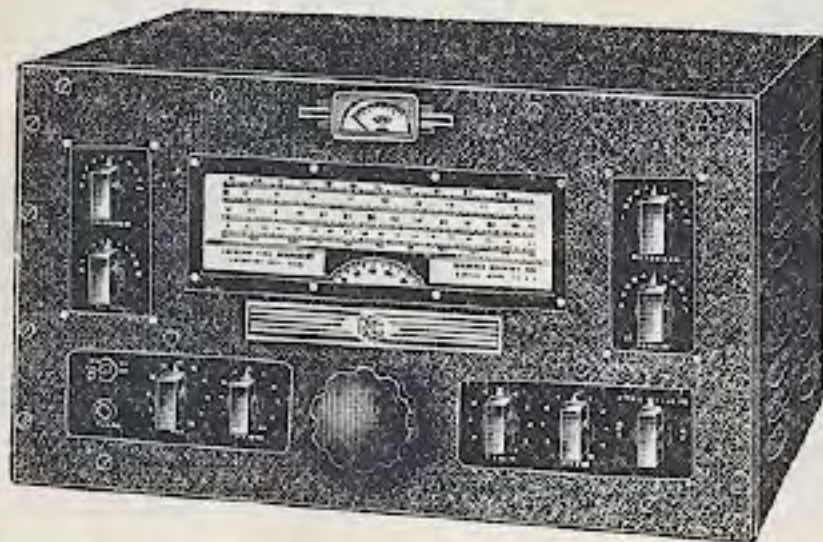
S14322	J	50-100 K.C.	\$22.50
S14323	H	100-200 K.C.	18.00
S14324	G	175-400 K.C.	16.50
S14325	F	500-1000 K.C.	12.00
S14326	E	900-2050 K.C.	12.00

HRO Bandspread coils any standard short-wave range.
Cat. No. S14327, specify frequency range.
Net \$12.00

HRO Styles and Prices

- HRO Standard AC table model complete with tubes and four sets of coils covering from 1.7-4, 3.5-7.3, 7-14.4, and 14-30 MC.—less speaker and power supply.
Cat. No. S14309 Net Price . . . \$179.70
- HRO-B, same as above but battery operated.
Cat. No. S14310 Net Price . . . \$179.70
- HRO relay rack model, AC operated, mounted on $\frac{3}{16}$ " aluminum panel finished in black leatherette or gray enamel.
Cat. No. S14311 Net Price . . . \$192.00
- HRO-B battery operated receiver for rack mounting. Cat. No. S14312 Net Price \$192.00
- HROC De Luxe Model as illustrated, complete with all equipment as described.
Cat. No. S14313 Net Price . . . \$259.50
- HRO Junior AC table model with tubes and one set of 14 to 30 MC. coils, less speaker and power supply.
Cat. No. S14314 Net Price . . . \$111.00
- HRO-B Junior, same as above but battery operated. Cat. No. S14315 Net Price \$111.00
- HRO Junior AC rack mounted model.
Cat. No. S14316 Net Price . . . \$120.00
- HRO-B Junior battery operated rack mounted model. Cat. No. S14317 Net Price \$120.00
- MCS table model 8" PM Dynamic speaker in metal cabinet with 7,000 ohm matching transformer.
Cat. No. S14328 Net Price . . . \$9.90
- RFSH same speaker rack mounted on $8\frac{3}{4}$ " panel.
Cat. No. S14329 Net Price . . . \$18.00
- SPC Combination—speaker, power supply, and 5-coil storage compartment.
Cat. No. S14330 Net Price . . . \$54.00
- MRR table relay rack for combined HRO and SPC units.
Cat. No. S14331 Net Price . . . \$13.50
- HCRP rack mounted coil storage compartment for 5 HRO coils.
Cat. No. S14332 Net Price . . . \$16.50
- 697 Table type power supply 115 v. 50/60 cycles AC. Complete with tube.
Cat. No. S14333 Net Price . . . \$15.90

National NHU



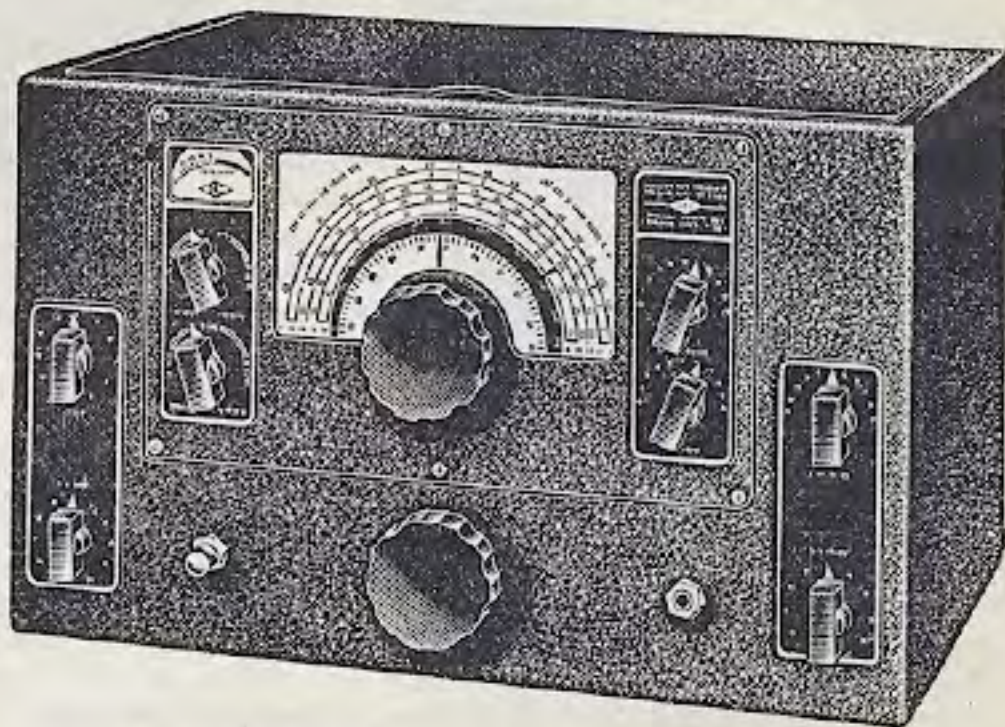
Superheterodyne communications receiver covering 27 to 62 MC in three ranges, each calibrated on direct reading, full vision dial. Circuit uses 3 acorn tubes—956 RF, 954 1st. det., 955 osc.; 3—6K7 IF, 1—6CSG infinite impedance diode detector and noise limiter, 1—6CSG 1st. audio and carrier-off noise suppressor, 1—6SJ7 CW osc., 1—6SJ7 amplified and delayed AVC, and 1—6V6G output. Unique mechanical details include large knob on panel, sliding in or out to engage tuning condenser or range-changing system; inertia type tuning with 70:1 ratio; pointer positively driven by rack and pinion, moves up and down with change of coil range so that it always indicates correct frequency. Coils mount radially in a cast aluminum turret easily turned into position by knob on panel; three-gang straight-line-frequency tuning condenser is directly above coil turret. The RF circuit and tubes are entirely inside the condenser frame, thus making a compact assembly with the shortest possible leads from coils to condensers to tubes.

All features and controls commonly found in high quality communication receivers, including a wide range crystal filter, are incorporated in the National NHU. Receivers are supplied complete with cabinet, tubes, coils, 8" speaker in separate cabinet, but less power supply.

- Cat. No. S14336 Model NHU table type. Net Price . . . \$165.00
Terms: \$16.50 down, \$13.10 a month for 12 months.
- Cat. No. S14337 Model NHU-20, same as above but with 20 meter coil. Net Price . . . \$174.00
Terms: \$17.40 down, \$13.83 a month for 12 months.
- Cat. No. S14338 Model NHU relay rack type. Net Price . . . \$177.00
Terms: \$17.70 down, \$14.07 a month for 12 months.
- Cat. No. S14339 Model NHU-20 relay rack type. Net Price . . . 186.00
Terms: \$18.60 down, \$14.78 a month for 12 months.

- Cat. No. S14340 Type 5856, table model, with rectifier. Net . . . \$17.70
- Cat. No. S13341 Type SPU-56 relay rack power supply with rectifier. Net . . . \$29.70

National NC-101X & 101XA



Eleven-tube superheterodyne receivers covering amateur bands exclusively: 1.7-2.05, 3.5-4.0, 7.0-7.3, 14.0-14.4, and 28-30 megacycles. Design features are: fine RF and two IF stages, separate RF and AF gain controls, crystal filter, "S" meter, noise limiter, low loss insulation and high-Q coils for ample sensitivity and selectivity, built-in power supply providing for speaker field excitation, AVC with amplified and delayed action, and unique range changing system combining the convenience of band switching with efficiency of plug-in coils. NC-101X has full-vision, directly calibrated dial and high speed vernier; NC-101XA has PW type instrument dial. Metal cabinets 17 x 10 $\frac{1}{2}$ x 11 $\frac{1}{2}$ ".

- Cat. No. S14334 Model NC-101X with tubes and separate speaker. Net . . . \$129.00
- Cat. No. S14335 Model NC-101XA with tubes and separate speaker. Net . . . \$129.00

Speakers are in separate metal cabinets.

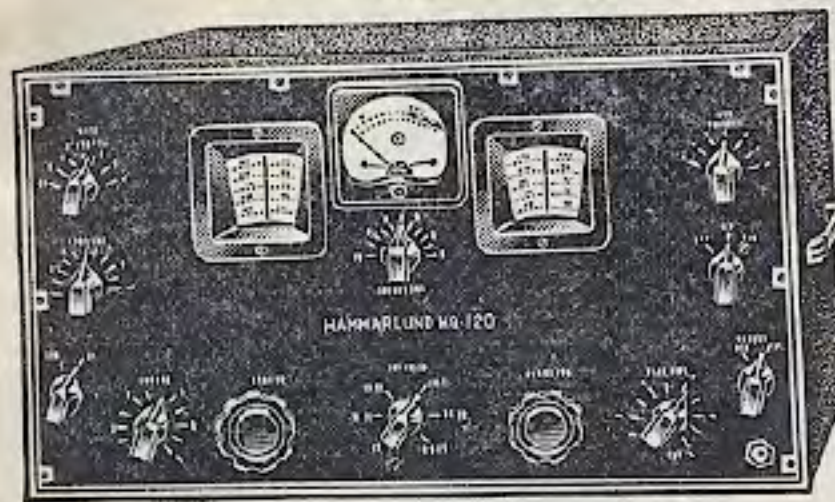
Terms: \$12.90 down, \$10.25 a month for 12 months.

IMPORTANT NOTE

Space does not permit a complete listing of the entire National line of sets, parts, or accessories, but we can secure anything in the National catalog on short notice. Order by their regular catalog number. Bear in mind that the National Company is only about 6 miles from our Boston location. This is of tremendous help in our obtaining very rapid service on special orders. We will gladly send you a complete National catalog on request.

HAMMARLUND - - RECEIVERS - - RME

Hammarlund HQ-120X Receiver



- 12 Tubes
- 31 Mc to 54 Kc
- 9.7 to 555 Meters
- Calibrated Band Spread
- Noise Limiter

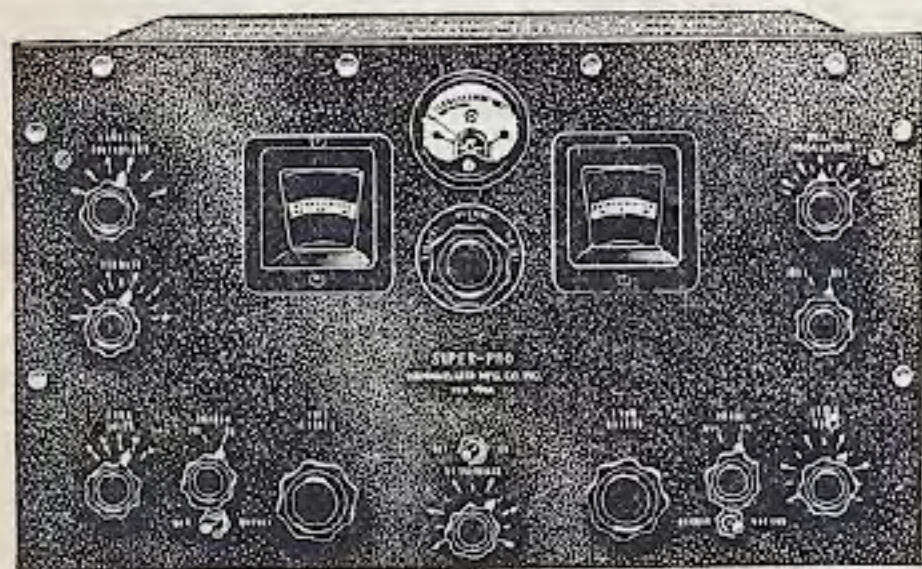
Designed to meet the most exacting demands of amateurs and short-wave experimenters. Features include: "full range" crystal filter; high gain R.F. stage with antenna compensator; uniform sensitivity; three I.F. stages with silvered mica condensers and permeability tuned transformers; voltage regulated power supply; exceptional stability, sensitivity, and selectivity. Specially designed 15-gang tuning condenser provides constant band-spread throughout entire range—310 degrees on each amateur band. Band-spread dial is calibrated in megacycles for each amateur band from 10 to 80 meters with additional 0-200 scale for calibration at other frequencies; general coverage dial also is calibrated in Mc. The HQ-120X offers maximum image rejection and highest signal-to-noise ratio with all types of antenna. Gain is held relatively constant in all amateur bands, giving accurate "S" meter readings. The crystal filter circuit of the HQ-120X provides six, panel-controlled settings—three for phone, two for single signal c.w., and one cutting the crystal out of circuit. The noise limiter, designed to remove automobile ignition and similar disturbances, works with or without the A.V.C. and requires no delicate threshold controls—just an "On and Off" switch. The HQ-120X is contained in a crackle finished metal cabinet 17½" x 10" x 12¼" with black etched panel and carrying handles. For operation on 105 to 125 volt 50-60 cycle circuits.

Cat. No. S10030 HQ-120X, with tubes. Net Price **\$139.00**
Time payment \$13.90 down, \$12.05 per mo. for 12 months

Speaker Cabinet to Match

Black crackle finished steel cabinet 12½" x 12½" x 7".
Cat. No. S10029 Type SC-10. Net Price **\$3.90**

Hammarlund 18-Tube Super-Pro



Developed to meet the strict demands of commercial and amateur service, this modern super-heterodyne features two stages of tuned R.F., variable band-width I.F. from approximately 3Kc. to 16Kc., electrostatically shielded antenna input circuit, three air-tuned I.F. transformers, B.F.O., stand-by switch, three stage audio amplifier, and separate power supply. The variable selectivity crystal filter provides three ranges for speech and music and two for code or c.w.; selectivity is variable from less than 100 cycles to about 16,000 cycles. The "Super-Pro" band spread system, with its 12-gang condenser, spreads the various bands over nearly the entire band-spread dial. The exclusive, cam-operated knife switch is noiseless, jar-proof, and trouble-free. In the precision tuning unit are 20 laboratory adjusted tuning coils on ceramic bases, a four-gang main tuning condenser, and 12-to-1 ratio direct reading dials calibrated to within ½%. The "S" meter, a sensitive microammeter with special scale graduated in "S" units from 1 to 9, is extremely sensitive to weak and moderately strong signals, yet is protected against overload by exceptionally strong signals. The noise limiter, designed to limit automobile ignition noise and similar disturbances, is especially helpful on the 10 and 20 meter bands.

The "Super-Pro" is available in two tuning ranges: 15 to 560 meters, and 7½ to 240 meters. Plain table model receiver measures 18½" x 14½" x 10½". Power unit is 13" x 7½" x 8½".
Cat. No. S10336 Model SP-220-X 15 to 560 meters.
Cat. No. S10337 Model SP-220-SX 7½ to 240 meters.
Net Price, either model, including tubes, 8" speaker, power supply, and crystal filter with crystal **\$279.00**
Time Payments \$55.80 down, \$20.09 per month for 12 months.
Add \$22.50 for rack model. Add \$15.00 for 12" instead of 8" speaker.
Write for free booklets giving detailed information about the Hammarlund receivers briefly described above.

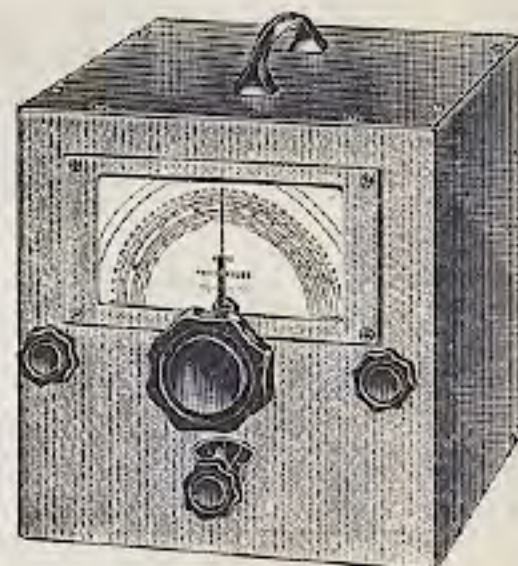
RME-99 Communications Receiver



Here is a 12-tube, six-band receiver that is engineered for service. Covering a range of 540 to 33,000 KC, it has fully calibrated band spread from 3,500 to 4,000 KC; 7,000 to 7,300 KC; 14,000 to 14,500 KC; and 28,000 to 30,000 KC. Band spread scale carries additional numbered scale permitting calibration of other frequency bands. Further specifications of the RME-99 are: illuminated meter with carrier level in 6 db units as well as R units; voltage regulator tube for extreme stability; high efficiency loktal tubes in oscillator and amplifier circuits; R.F. tank circuits switched on ceramic band switching sections; new type crystal filter with 6 degrees of I.F. selectivity and controlled phasing; CW beat oscillator with variable pitch control on panel; automatic noise silencer with panel adjustment for percentage of modulation; manual and automatic gain control; low temperature drift; uniformly high sensitivity with high signal-to-noise ratio; built-in control for external relay circuit; weatherproofed construction to withstand severe climatic conditions; audio output 4 watts at both 4,000 and 600 ohms; housed in heavily finished furniture steel cabinet 19" x 8½" x 10½"; hinged cover gives access to top of chassis; removable bottom plate gives access to under chassis wiring; speaker is 8", high permeability, permanent magnet dynamic in metal baffle; power supply, 105-125 volts 50-60 cycle. Entire assemble mounted on solid, cast aluminum frame.

Cat. No. S13365 RME-99 Receiver complete with 12 tubes, 465 KC crystal, 8" speaker, and power supply. Net Price **\$137.40**
Cat. No. S13366 RME-99 Receiver as described but less speaker and speaker housing. Net Price **\$125.55**

ME-14 Portable Receiver



This is a complete battery powered superheterodyne receiver in aluminum cabinet, designed to cover the range from 180 to 4,100 KC in three steps. The receiver uses 6 low drain battery type tubes, producing an output of 160 milliwatts. Only a fifteen foot antenna is required. The weight complete with batteries is only 11 lbs. This set may be used also with external batteries by means of a plug and cable. Used by airports, private planes, amateurs, beacon stations, and for any portable operation to pick up the signals in the range as specified above. 300 mils "A" current drain; 9 mils "B" current.

The six tubes used are as follows: 1N5G RF; 1A7G DET and OSC; 2-1N5G's IF stages; 1H5G 2nd DET; 1A5G AF.
Cat. No. S11560 ME-14 less batteries, tubes, and phones. Net Price **\$38.75**
Cat. No. S11561 Special small size batteries to fit into cabinet. Net Price **\$5.40**
Cat. No. S11562 Complete set of 6 Raytheon Tubes. Net Price **\$5.51**

LF-90

Low Frequency Expander

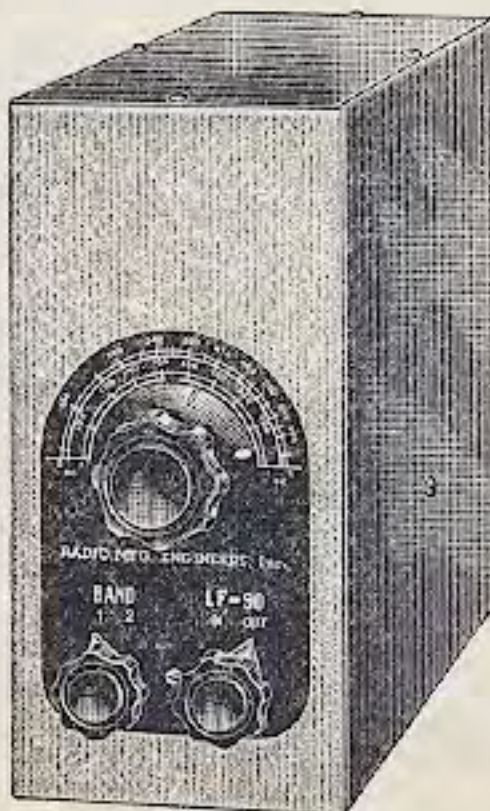
The LF-90 is intended for all users of superheterodyne receivers who desire to extend the frequency range of their receiver below the regular broadcast range. This unit covers the range from 90 to 600 KC and presupposes that the superheterodyne receiver be set at 1,550 KC as a fixed frequency. The range is covered in two steps—namely, 90 to 258 and 240 to 600 KC.

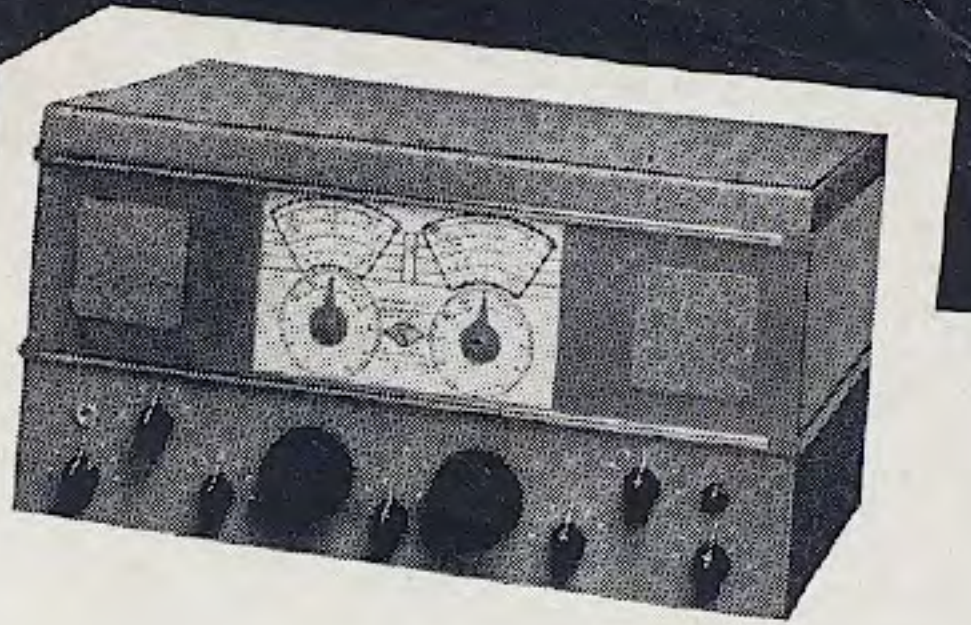
The tubes used are: 6K8 mixer, 6Z5G rectifier. For 115 volt 60 cycle AC operation.

The cabinet is 4" wide, 10½" deep, and 9¼" high.

Here is a unit which will permit utilization of your present instrument to cover those low frequencies utilized for aviation and weather broadcast, in addition to a good many other frequencies now used more or less commercially.

Cat. No. S11563 complete with tubes. Net Price **\$19.50**





National NC-55 Receiver

The new NC-55 Receiver incorporates all the National tradition of quality and excellent performance. The same ingenuity of National engineering which has made National receivers famous in both amateur and government circles has gone into this Receiver.

Two-toned gray finished cabinet. The performance will, we are sure, satisfy the most critical user. New dual dial arrangement with built-in band indicator provides calibrated general coverage tuning and calibrated amateur band spread. Extra logging scales on both dials. Tubes used are: 6SK7 tuned R.F. stage, 6K8 detector in oscillator to 6SK7 I.F.'s, 6H6 detector AVC-limiter, 6S7 B.F.O., 6S5 audio driven, 6V6G audio output and 5Y3 rectifier. Audio output 4 watts undistorted to external speaker mounted in a metal cabinet to match. Tuning range 540 KC to 30,000 KC-4 bands. For operation on 110 volts, 60 cycles.

FEATURES

- 4 watts audio output (undistorted)
- Calibrated general coverage
- Calibrated band spread
- General coverage logging scale
- Band spread logging scale
- Series valve noise limiter, with adjustable level control
- Separate R.F. and A.F. gain controls
- Tone control
- Headphone and loud speaker outputs
- B— Standby switch
- AVC
- B.F.O.
- Crystal
- Tuning meter

Battery models are also available on all types. Amateur Net Price of each Battery Model is \$5.00 less than that of the corresponding AC model, listed below. To order Battery models, simply plate the letter "B" after the Catalog Symbol of the AC model.

Catalog Number S14806	Model NC-55. Less crystal and "S" meter.	\$59.50
NET CASH PRICE		
	Time Payments: \$5.95 down, \$7.10 monthly for 8 months.	
Catalog Number S14807	Model NC-55. With "S" meter, less crystal.	\$67.50
NET CASH PRICE		
	Time Payments: \$6.75 down, \$8.05 monthly for 8 months.	
Catalog Number S14808	Model NC-55. With crystal, less "S" meter.	\$74.50
NET CASH PRICE		
	Time Payments: \$7.45 down, \$8.89 monthly for 8 months.	
Catalog Number S14809	Model NC-55. With crystal and "S" meter.	\$82.50
NET CASH PRICE		
	Time Payments: \$8.25 down, \$6.56 monthly for 12 months.	

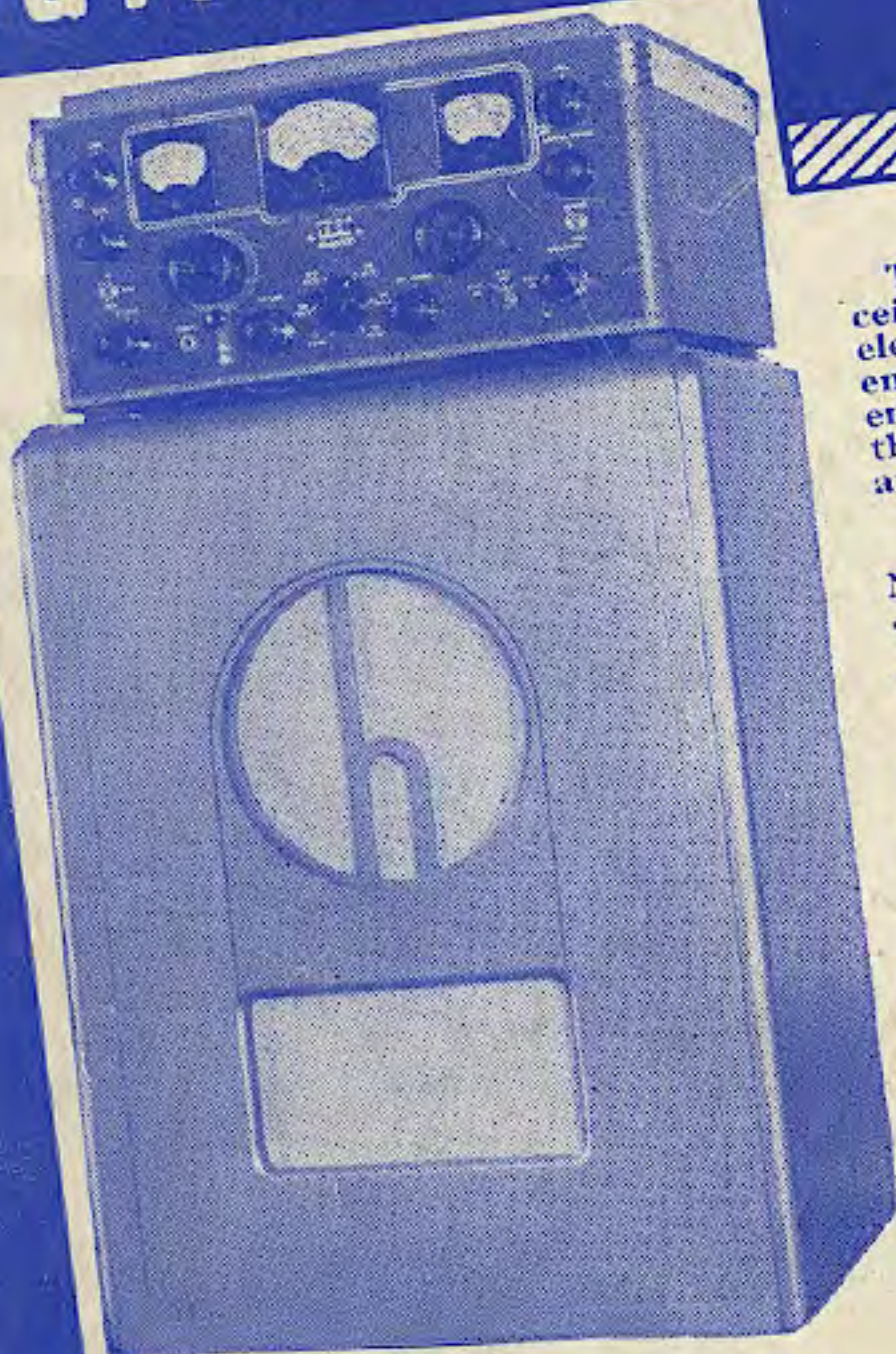


Echophone Model EC-1

Just think, a 6-tube Communication Receiver at a price heretofore thought impossible. A complete Receiver—with tubes—built-in speaker. Nothing else to buy. Manufactured by one of the leaders in the communication field, the EC-1 "Commercial" embodies nearly all of the features found in higher priced Receivers. Tuning range in 3 bands from 550 to 985 meters (545 kc to 30.5 mc). Electrical band spread. Main tuning dial is calibrated in megacycles with important service bands indicated; separate logging scale is for use with bandspread tuning control. The Echophone "Commercial" is housed in a sturdy metal cabinet finished in attractive gray wrinkle lacquer, all controls easy to reach on the front panel. Controls are: Main tuning knob, Bandspread tuning knob, Band-switch, Audio gain, Standby switch, Speaker-headphone switch, and combined Beat Oscillator and AVC on-off switch. Antenna terminals at rear for doublet antenna. Separate tip-jacks at rear of set for headphone use. Tubes used are 12K8, 12SK7, 12SQ7, 35L6GT, 12J5, 35Z5. Size, 7½" high, 10 ⅞" wide, 7 ⅝" deep. For 110 volts AC or DC. Shipping weight, 15 lbs. Completely assembled—ready to operate.

S14805 ECHOPHONE "COMMERCIAL" EC-1. Complete with tubes.	\$19.95
NET PRICE	

hallicrafters SX-28



The Model SX-28 Sky Rider sets new standards in Receiver performance. Features of its construction, both electrical and mechanical are the result of hundreds of engineering reports and specifications by government engineers. Every advancement has been incorporated in this remarkable Receiver. Its electrical performance will amaze you.

FEATURES

New 15 tube circuit
Two tuned R.F. stages
Tunes 550 KC to 43 MC
(in six bands)
Frequency meter tuning
Adjustable noise limiter
Six stage variable selectivity
Micrometer main tuning
Calibrated band spread

TUBE LINE UP

1 6SK7 1st RF amplifier
1 6SK7 2nd RF amplifier
1 6SA7 Mixer
1 6SA7 H.F. Oscillator
1 6L7 1st I.F. amplifier
1 6SK7 noise limiter
1 6B8 2nd I.F. amplifier
1 6SK7 AVC amplifier
1 6H6 Noise amplifier
1 6J5 Noise rectifier
1 6SC7 B.F.O.
2 6V6GT 1st Audio amplifier
amplifier
Rectifier

Catalog Number S14801

SX-28 complete with tubes and crystal \$159.50
Terms \$15.95 down, \$12.68 per month for 12 months.

Catalog Number S14802

SX-28 complete with tubes, crystal and Hallicrafter Jensen base reflex enclosure with 12" speaker; 30" high, 16" deep and 22 1/2" wide. \$189.00
NET PRICE
Terms \$18.90 down, \$15.03 per month for 12 months.

hallicrafters SX-27

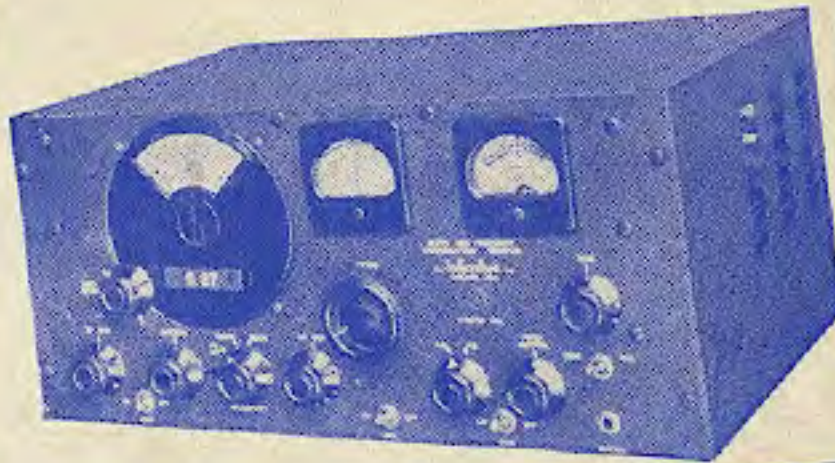
The New S-27 FM-AM Receiver

A 15-tube Ultra-High-Frequency receiver designed for reception of either Amplitude-Modulated or Frequency-Modulated signals. Ideally suited to the specialized requirements of Municipal departments, Amateurs, Broadcast relay systems, airline and government services, etc.

RANGE: 27 MC to 145 MC, continuous coverage in 3 bands.
TUBES: 956 RF Amplifier, 954 1st. Detector, 955 Oscillator, 1852 1st IF, 1853 2d. IF, 6SK7 3d IF, 1852 Limiter, 6H6 Frequency-modulation detector, 6H6 Amplitude-modulation detector and automatic noise limiter, 6C8G Audio amplifier and phase inverter, 2-6V6 Push-pull Audio amplifier, 6J5 Beat Oscillator, VR-150 voltage regulator, and 5Z3 rectifier.

CONTROLS: Tuning, RF gain, AF gain, Antenna trimmer, IF Selectivity, BFO, BFO pitch, AVC, Noise Limiter, Tone, FM-AM, Standby switch. Among the many unusual features incorporated in the S-27 are: Silver-plated contacts on condenser gang; Flywheel operated gear-driven tuning mechanism with separate bandspread scale having 2,400 divisions for full rotation; Shock-mounted RF assembly; Plate-tuned oscillator; air-limiter tube provides full limiter action on signals of approximately 5 to 10 microvolts in FM reception. For 110 volt 60 cycles AC. Shipping weight, 75 lbs.

S14803 Model S-27, with tubes, less speaker. CASH PRICE \$175.00
Time Payments: \$17.50 down, \$13.92 monthly for 12 months. \$12.00
S14804 10" PM speaker in matching metal cabinet. NET



The **RADIO SHACK**
167 WASHINGTON ST., BOSTON, MASS., U.S.A.

TIME PAYMENT SCHEDULE

SELECT WHAT YOU REQUIRE ON OUR TIME PAYMENT PLAN

Radio Receivers
Transmitters
Test Equipment

Amplifiers
Power Plants
Rotary Converters

Recording Equipment
Transceivers
Books

The qualifications necessary to purchase on our Time-Payment Plan are:—You must be of legal age, or if under legal age, parent or guardian must sign application; be of good character and have a steady source of

income. The only references required are the names of two people or firms with whom you have had business dealings.

RECEIVER AND TRANSMITTER TIME PAYMENT SCHEDULE

Model	Down Payment	6 Monthly Payments	8 Monthly Payments	12 Monthly Payments
HALLICRAFTER				
SX-28	\$15.95			\$12.68
SX-29	5.95		\$7.10	
S-27	17.50			13.92
SX-25	9.95			7.91
SX-24, less speaker	6.95		8.29	
SX-24, with speaker	8.15			6.48
S-20R	4.95		5.90	
S-19R	4.43	\$4.43		
S-22	6.45		7.69	
S-30	9.95			7.91
HT-6	9.90			7.87
HT-9	19.95			15.86
HT-8	29.00			23.05
HT-11	15.95			12.60
HAMMARLUND				
HQ-120-X	13.80			10.97
SP-210-X	27.90			22.18
SP-210-SX	27.90			22.18
NATIONAL				
NC-44, with speaker	4.95		5.90	
NC-100-A, with 10-inch speaker	12.00			9.54
NC-100-XA, complete with speaker	14.25			11.33
NC-200	14.75			11.72
HRO, less speaker and power supply	17.97			14.28
HRO, with speaker and power supply	20.55			16.43
NC-55, less crystal and "S" meter	5.95		7.10	
NC-55, with crystal less "S" meter	7.45		8.89	
NC-55, with "S" meter less crystal	6.75		8.05	
NC-55, with crystal and "S" meter	8.25			6.56
RME				
RME-99, complete	13.74			10.92
RCA				
AR77, with speaker	14.75			11.72
MEISSNER				
Signal Shifter, with tubes	4.65		5.55	
Signal Shifter, less tubes	4.41		5.26	

BUY YOUR SOUND SYSTEM OR TEST EQUIPMENT ON TIME PAYMENTS. You can buy any of the sound systems listed in our catalog or any piece of test equipment on our easy monthly payment plan, provided your order comes to \$40.00 or more.

Our schedule makes it easy for you to own equipment that will pay its way. The simple chart below tells you exactly how much you must pay

down, and the amount of your monthly payments. If the unpaid balance is \$40.00, add \$4.00, then divide by 8 months to get your monthly payments. The whole balance will be \$44.00.

Select anything that you want; send 10 per cent as a down payment with your order. Please send credit references at the same time. Credit investigation is made rapidly, and the material is forwarded promptly.

TABLE OF TERMS

If Cash Price of Order Amounts to	Minimum Down Payment is 10 Per Cent of Cash Price	To Find Carrying Charges	Monthly Payments 8 Months
\$40.00	\$4.00	Simply add 10 per cent to unpaid balance. For example, if the balance is \$40.00, then the carrying charge is \$4.00, and the amount yet to be paid is \$40.00+\$4.00 or \$44.00	\$4.95
60.00	6.00		7.43
80.00	8.00		9.90
100.00	10.00		12.38
120.00	12.00		14.85
150.00	15.00		18.57
175.00	17.50		21.66
200.00	20.00		24.75
225.00	22.50		27.85
250.00	25.00		30.94