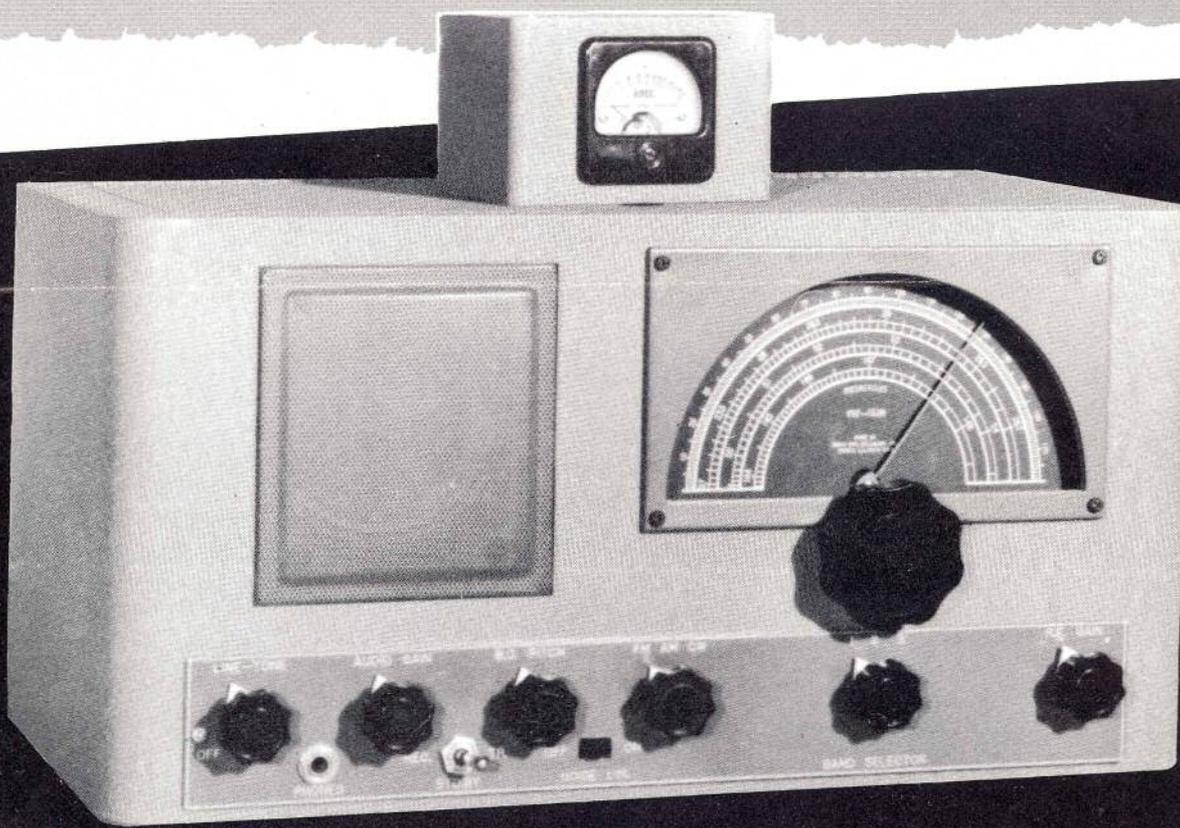




RME EQUIPMENT RELEASE NO. 160

RME
SINCE
1933

The RME VHF 2-11 "Compact"



**A Complete VHF Receiver for both AM and NFM to cover the Amateur Bands in the TWO, SIX, TEN AND ELEVEN METER RANGE.
All in one package including the speaker and power supply.**

Here is a modern, 1948, receiver for the high frequency amateur and listener which has been designed as a **complete** receiver in one small cabinet. Nothing that is essential was left out. It occupies a very small space on the table or bench and gives performance outstripping anything designed for the purpose.

The essential features, both mechanical and electrical, are best outlined as follows:

CALIBRATION: The semi-circular scale is on a seven inch radius, calibrated in megacycles and fractions. An indirectly illuminated black background with white figures make easy reading possible. Accuracy of calibration is assured through complete temperature compensation on all bands.

TUNING CONTROL: A smooth, positive combination ball planetary and loaded gear arrangement provides the fine control necessary in high frequency equipment.

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SENSITIVITY: Less than one microvolt R.F. carrier with 30% amplitude modulation, or a plus-or-minus 2 KC FM carrier will provide 50 milliwatts of audio frequency output.

I.F. SYSTEM: Built into the receiver is a double I.F. system, providing double conversion for both high image reduction and adjacent channel selectivity. The first channel functions at 7 mc and the second at 455 KC.

C.W. RECEPTION: A built-in beat oscillator with a pitch control mounted on the front panel makes CW operation easy and practical.

AUDIO SYSTEM: Controlled frequency characteristics are utilized for high voice intelligibility. A power type beam pentode output drives the built-in dynamic speaker. For those wishing to use headphones a panel jack is provided.

NOISE REDUCTION: In the noise limiter circuit, embodied in the third detector, practical elimination of auto ignition interference and other similar pulse type disturbances is provided automatically. This series type limiter is one of the best used in radio communications receivers of today.

NARROW BAND FM CIRCUIT: The NFM circuit utilizes a limiter-driver stage together with a ratio detector for maximum FM sensitivity as well as noise quieting on FM signals. A switch mounted on the front panel makes instant shifting to NFM possible. For amateur operation on narrow band FM this circuit gives superior performance.

FREQUENCY RANGE: The range covered, namely 2, 6, 10 and 11 meters, is shown on three separate bands. Band one: 27 mc to 29.7 mc. Band two: 50 mc to 54 mc. Band three: 144 mc to 148 mc.

TYPE OF SIGNALS RECEIVED: AM; NFM; MCW; CW; ICW.

PANEL CONTROLS: AC Line Switch-Tone Control; Audio Gain Control; BFO Pitch Control; FM-AM-CW Switch; Standby-Trans-Rec. Switch; ANL On-Off Switch; Band Selector Switch; R.F. Gain Control; Tuning Control; Phone Jack.

TUBES: Eleven tubes plus Rectifier and Voltage Regulator as follows:

1-6AK5 R.F. Amplifier	1-6G6G Audio output
1-6J6 1st Osc. Mixer	1-6BA6 FM Limiter
1-6BE6 2nd Osc. Mixer	1-6AL5 FM Detector
1-6BA6 1st I.F.	1-6BA6 BF Osc. Meter Tube
1-6BA6 2nd I.F.	1-5Y3GT Rectifier
1-6AL5 Det. Noise Lim.	1-VR-150 Voltage Reg.
1-6AU6 1st Audio Amp.	

CABINET: Finished in two-tone grey, of rugged construction with hinged top lid, mounted on rubber feet. Overall dimensions: 9-1-4" high, 18" wide, 10-1-2" deep.

POWER INPUT: 115 Volts, 50-60 cycles, 68 watts total. Also available on special order for 115-230 Volts, 25-60 cycle operation.

"COMPACT," CODE: COMPT, shipping weight 30 lbs., less meter, Net Price..... **\$146.00**

CM-2, CODE: CANS, Carrier level S meter, weight 2 lbs., Net Price..... **\$14.00**

Litho. in U.S.A.



RME

FINE COMMUNICATIONS EQUIPMENT
RADIO MFG. ENGINEERS, INC.
Piquette 6, Illinois, U. S. A.

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SINCE
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FINE COMMUNICATIONS EQUIPMENT

RADIO MFG. ENGINEERS, INC.

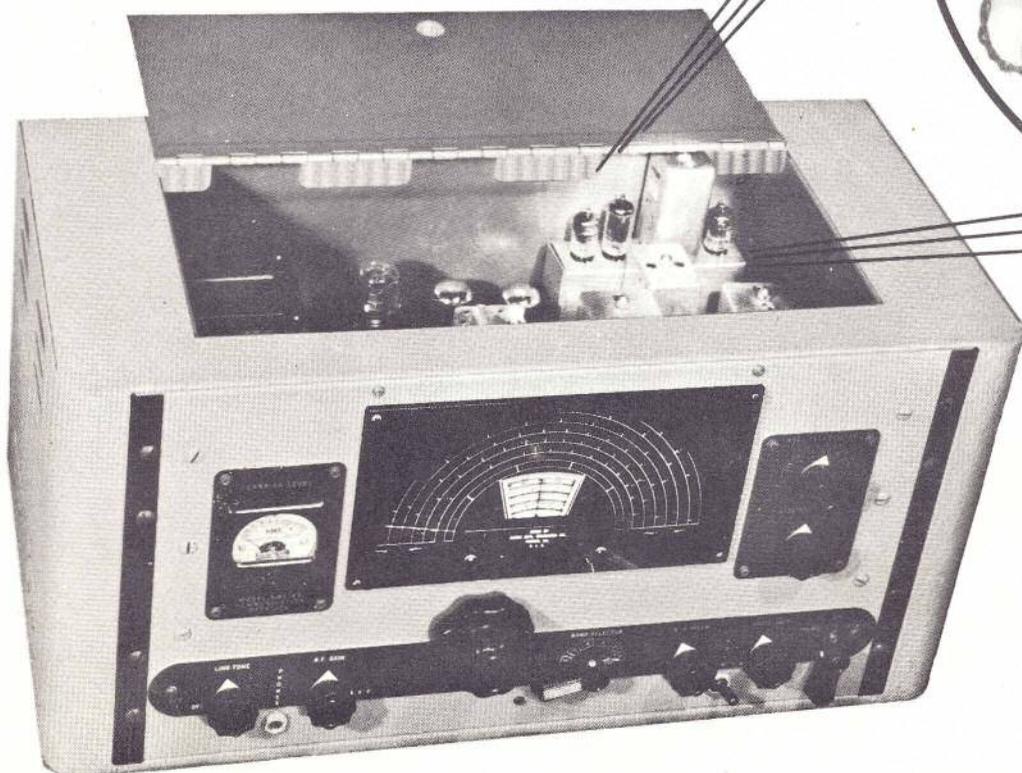
Peoria 6, Illinois U. S. A.

NARROW BAND FM and AM either one with a flip of the switch.

The NBF-4 unit consists of a small chassis which has been designed to plug into the 7A6 2nd detector socket on the Model RME-45 communications receiver. When this is done, the RME-45 receiver becomes a far more versatile instrument, since it will receive either amplitude modulated, AM, signals or narrow band frequency modulated, NFM, signals. Selection of the particular type of modulation is determined by means of a single pole double throw switch mounted conveniently on the front panel. The NBF-4 chassis contains all of the necessary circuits for both types of detection and the receiver sensitivity for AM and NFM is identical.

The circuit consists of a standard diode detector and a series noise limiter for AM reception, identical to that used in the regular model RME-45 receiver. For NFM reception, a limiter and a ratio detector are provided and the NFM circuit is designed for an FM band of 6 KC (equivalent to plus or minus 3 KC frequency deviation of the transmitter). Thus a real FM receiving system tailored to amateur values of frequency swing is provided, resulting in true noise-free FM reception. You will be surprised at the quality of the FM signals and the freedom from noise on the carrier which results. It is possible to receive, with good clarity, NFM signals which would not be intelligible if they were amplitude modulated at the same carrier level because of the degree of noise reduction provided for.

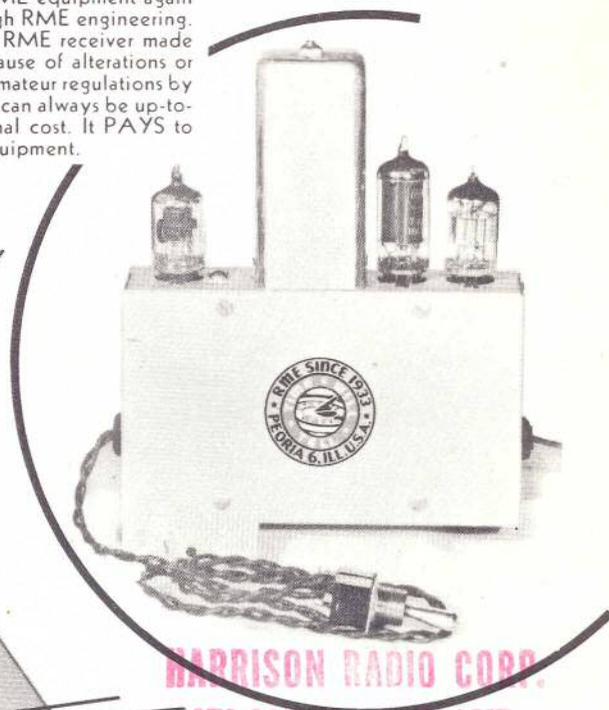
The chassis contains 3 tubes; 1 type 6BA6 limiter amplifier, and 2 type 6AL5 double diode tubes which serve as AM detector, FM ratio detector, and AM noise limiter.



For all model RME-45 receivers, when ordered from current production, the NBF-4 unit can be supplied, installed at the factory. For all model RME-45 receivers which have serial numbers ending with the letter 'B', the unit can be installed without any wiring changes in the receiver. For older model RME-45 receivers, those with serial numbers ending with 'A' or without any letter suffix to the serial number, the unit can be installed after minor changes are made in the 2nd detector and noise limiter circuits. For these models, installation can be made at the factory or at authorized service centers for a nominal charge.

Full instructions for installation are furnished with each unit. The installation is simple, since the unit is designed to fit into the space provided for.

Owners of RME equipment again benefit through RME engineering. Seldom is an RME receiver made obsolete because of alterations or additions to amateur regulations by the FCC. You can always be up-to-date at nominal cost. It PAYS to own RME equipment.



HARRISON RADIO CORP.
172 31 HILLSIDE AVE.
JAMAICA 3, N. Y.
REPUBLIC 9-4182

NBF-4 RATIO DETECTOR plug-in unit
complete with installation instructions.
CODE: NARBO... Amateur net \$19.50

RME-45 Receiver, complete with NBF-4
unit built in, including speaker, for 115
volt, 60 cycle operation.
CODE: NIMBO... Amateur net \$218.20

Factory installation charge on NBF-4
ratio detector on other than Model B
RME-45 receivers..... Net \$6.50
(see text)