



MF/HF Receiver *Type NS 304*



THE TYPE NS 304 Receiver has been designed for use on small craft and for general purposes at shore stations, normally in conjunction with a low-power telephone or telegraph transmitter. It can also be used, in conjunction with a rotating loop aerial, as a direction-finder.

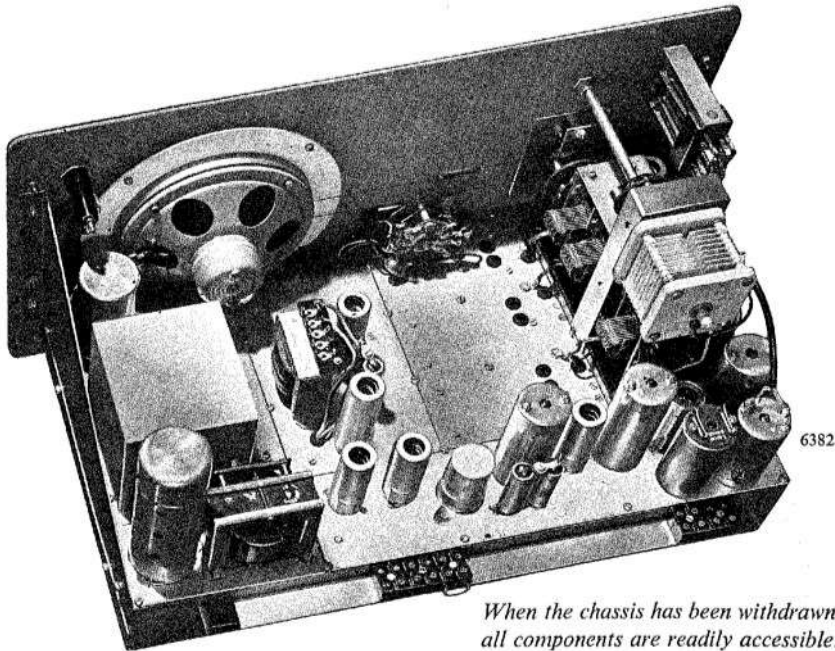
The receiver is a self-contained and compact equipment housed in a metal cabinet, with lugs for bench mounting. All components are supported on a sheet-steel chassis and front panel, which can readily be withdrawn from the cabinet by loosening six screws. The loudspeaker is built into the front panel.

A large circular tuning scale is provided, having three ranges calibrated clearly in kilocycles

per second. In addition to the normal tuning, on/off and gain controls, a switch is provided controlling the noise limiter and the beat frequency oscillator; an output switch selects the required loudspeaker or handset facility. A 'phone jack is mounted on the front panel and terminals are provided at the rear, under a protective shroud for an external loudspeaker. A three-position key is fitted for use when the receiver is associated with a direction-finding loop aerial. The three positions are 'Normal', 'DF' and 'Sense'. A zero-sharpening control is also provided.

CIRCUITS

A conventional superheterodyne receiving circuit



When the chassis has been withdrawn from the receiver case all components are readily accessible.

is employed. A pentode signal-frequency amplifying stage is followed by a heptode mixer and pentode oscillator. Two stages of intermediate amplification at 570 kc/s precede the detector,

and the output stage consists of a pentode audio amplifier. Automatic gain control and noise limiting circuits are provided and a beat-frequency oscillator is incorporated.

DATA SUMMARY

Frequency ranges:

190– 525 kc/s.
620–1650 kc/s.
1600–4500 kc/s.

Power output: 1 W (nominal).

Power supply: 24 V DC*

Power consumption: 50 W from 24 V DC supply

Dimensions:

Height	Width	Depth	Weight
10½ in.	21 in.	12⅞ in.	50 lb
(26.6 cm)	(53.3 cm)	(32.6 cm)	(23 kg)

* An AC mains version is also available

Marconi

MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED

Marconi House, Chelmsford

Telephone: Chelmsford 3221. Telex: 1953. Telegrams: Expanse Chelmsford Telex