

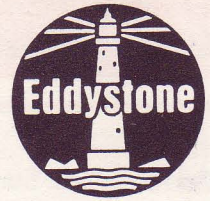
Eddystone Radio Limited

Member of Marconi Communication Systems Limited

Alvechurch Road, Birmingham B31 3PP, England

Telephone: 021-475 2231

Cables: Eddystone Birmingham Telex: 337081



AM/FM Broadcast Receiver

EB35 MkIII

General Description

The Eddystone EB35 MkIII "Statesman" is the latest version of a long line of solid-state high-quality receivers designed and built for discriminating listeners. The most advanced solid-state devices, components and circuits have been utilised, and the receiver design makes it suitable for use under a wide range of climatic conditions. The exterior is clad in a hard-wearing steel laminate and the construction is extremely rigid, making the receiver suitable for use under arduous working conditions, particularly on board ship.

The receiver has a wide frequency range covering long, medium and three short wave bands, plus international FM broadcast coverage.

The AM aerial input has a special Eddystone diode protection array, designed to minimise the damage likely to be caused by local high-power radiation or lightning.

A 5" diameter internal speaker is fitted, providing a pleasing tone. Provision is made for an external speaker and for personal listening via a standard Post Office headset socket. The audio stages can be used independently for microphone, tape or phonograph reproduction.

Optional power packs for dry battery, AC mains and external 12/24V DC supplies are available.

Dual gate FET mixer

Long, medium and three short wave bands and VHF/FM coverage

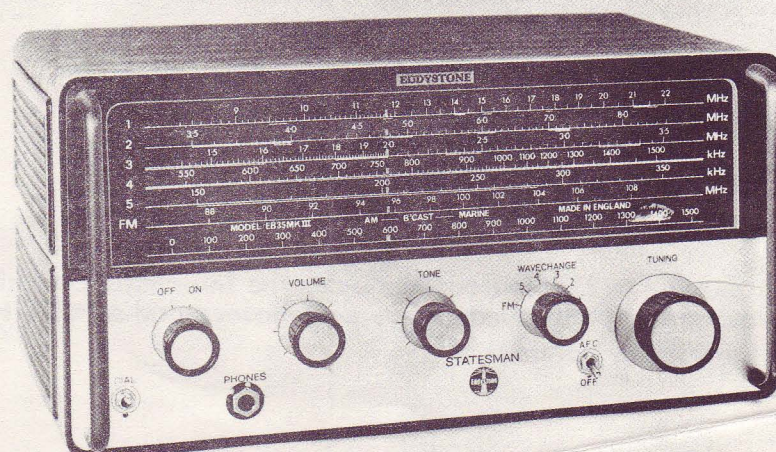
Foster-Seeley type FM discriminator

Tape and speaker system outputs

Flywheel loaded 110:1 reduction tuning drive

Logging scale

Aerial input protection



Performance Summary

Input impedances

Aerial : VHF/FM and Ranges 1-3 : 75 Ω
 Ranges 4 and 5 : 400 Ω
Audio : 5,000 Ω

Aerial protection

Frequency coverage

VHF/FM : 88-108MHz
Range 1 : 8.5-22MHz (35-13.5m)
Range 2 : 3.5-8.5MHz (85-35m)
Range 3 : 1.5-3.5MHz (200-85m)
Range 4 : 550-1500kHz (545-200m)
Range 5 : 150-350kHz (200-850m)

Sensitivity

FM : 5 μ V for 20dB S/N (22.5kHz deviation)
AM : 6 μ V for 15dB S/N (Ranges 1-3)
 10 μ V for 15dB S/N (Ranges 4 and 5)

Intermediate frequencies

FM : 10.7MHz
AM : 455kHz

Selectivity

FM : 250kHz at 6dB down
AM : 5kHz at 6dB down ; 25kHz at 40dB down

Image rejection

40dB at 2.0MHz

IF Breakthrough

VHF/FM : 55dB
 60dB at 2MHz

Audio output

Internal speaker (8-10 Ω) : 750mW
External speaker system (8-10 Ω) : 750mW
Headset : low/medium-Z
Tape sockets : 5,000 Ω
Response : within 6dB, 100Hz to 10kHz

Power supplies

DC : 9V (6 x U2 or HP2 cells)
 12V or 24V external source using
 optional converter unit
 (cat. no. 945A)
AC : 100/125V or 200/250V, 40-60Hz
 using optional mains power unit
 (cat. no. 924A)

Overall dimensions

Height : 6.37in (16.2cm)
Width : 12.5in (31.7cm)
Depth : 8.0in (20.3cm)
Weight (inc. batteries) : 11lb. (5.0kg)

As we are always seeking to improve our products, the information in this document gives only general indications of product capacity, performance and suitability, none of which shall form part of any contract.

The information contained herein is subject to confirmation at the time of ordering.