

THE
EDDYSTONE 840C
COMMUNICATIONS RECEIVER

Frequency coverage
480Kcs - 30 Mc/s
in Five Ranges

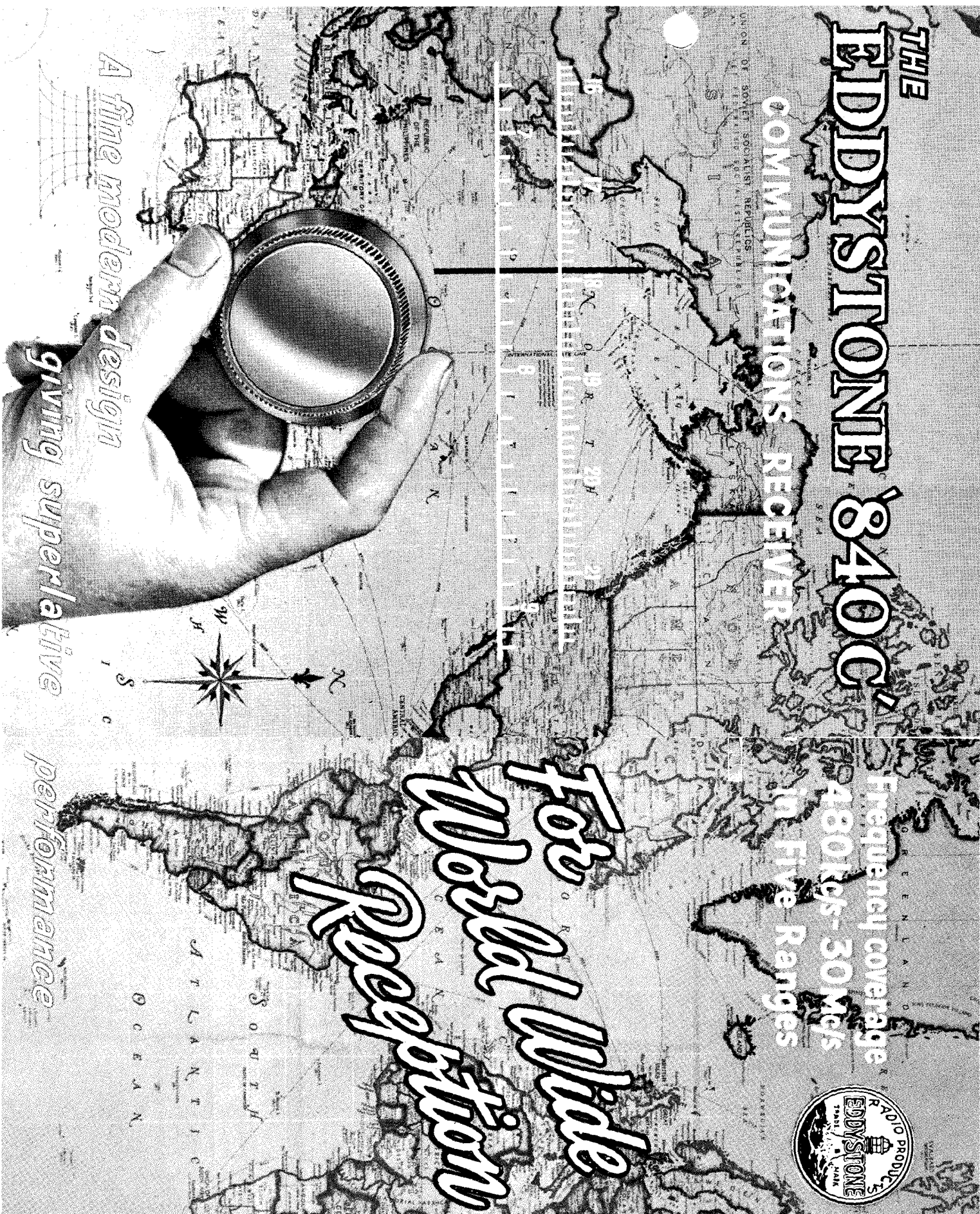


*For Wide
World Reception*

A fine modern design

giving superlative

performance



SPECIFICATION

VALVE COMPLEMENT

A total of eight valves are used in a single conversion superhet circuit.

- V1 UAF42 RF Amplifier.
- V2 UCH42 Frequency Changer.
- V3 UAF42 IF Amplifier and AGC.
- V4 DM70 Tuning Indicator.
- V5 UAF42 Detector and Audio Amplifier.
- V6 UAF42 Beat Frequency Oscillator.
- V7 UL41 Audio Output.
- V8 UY41 HT Rectifier.

FREQUENCY RANGES

- Range 1 .. 12.4 — 30 Mc/s.
 - Range 2 .. 5.2 — 12.9 Mc/s.
 - Range 3 .. 2.5 — 6.1 Mc/s.
 - Range 4 .. 1.12 — 2.58 Mc/s.
 - Range 5 .. 480 — 1150 kc/s.
- Ranges 4 and 5 include the International Distress Frequencies.

INTERMEDIATE FREQUENCY

450 kc/s. Permeability tuned transformers are used, which maintain their settings over a long period.

AERIAL INPUT

Sockets are provided to take either a single wire aerial or a pair of twin feeders.

AUDIO OUTPUT

The output impedance is 2.5 ohms and an external loudspeaker can be connected to sockets at the rear. Undistorted output is 0.75 watts and maximum output 1.2 watts. On the front panel is a jack to take headphones with a wide impedance range, the loudspeaker then being automatically cut off.

POWER SUPPLY

The receiver can be operated from AC (25/100 cycles) or DC mains supplies in the ranges 100/125V and 200/250V. The current consumption is approximately 0.28 Amps.

SENSITIVITY

Better than 10uV for a 15dB signal-to-noise ratio.

SELECTIVITY

30dB down at 10 kc/s off resonance.

IMAGE REJECTION

Better than 15dB at 30 Mc/s and correspondingly greater at lower frequencies.

In the interests of continued improvement, we reserve the right to amend this specification.

BEAT FREQUENCY OSCILLATOR

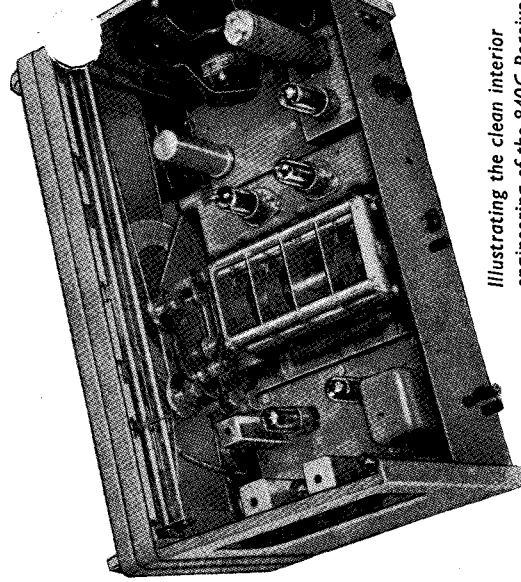
The pitch control gives a variation of plus or minus 3 kc/s.

AGC CHARACTERISTIC

The output level does not change by more than 15dB when the input level is increased by 80dB above 10uV. AGC is switched off when the BFO is brought into use.

FINISH

Two-tone grey.



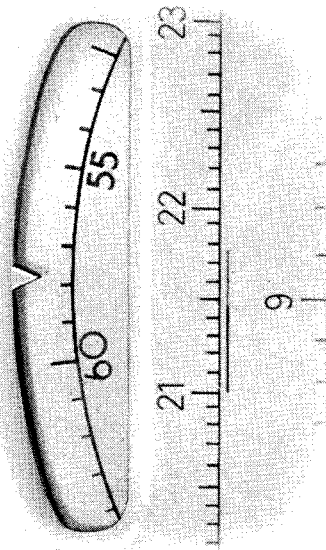
Illustrating the clean interior engineering of the 840C Receiver

OVERALL DIMENSIONS AND WEIGHT

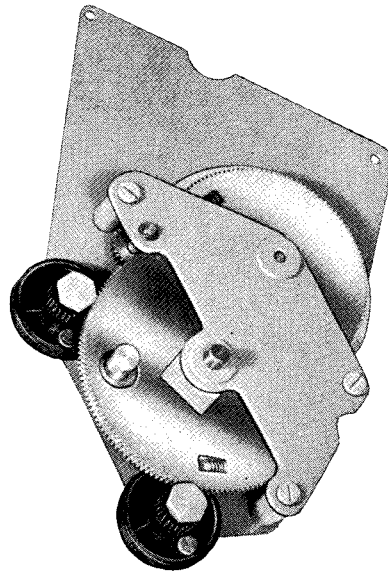
Width	16 7/8" (42.9 cm.).
Height	8 7/8" (22.5 cm.).
Depth	11" (27.9 cm.).
Weight	28 lbs. (12.7 kg.).

GUARANTEE

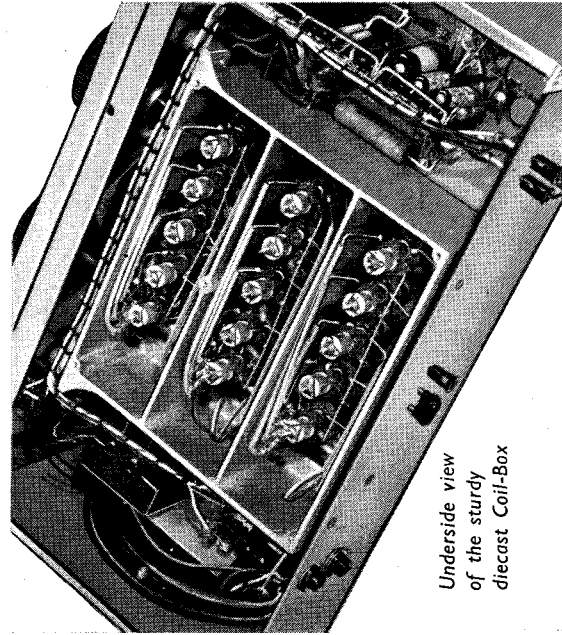
Comprehensive installation and service instructions are provided. The receiver is guaranteed for 12 months against defective workmanship or faulty material.



Close-up view of Logging Scale and Bandspread Indicator



The 840C Tuning Drive Mechanism

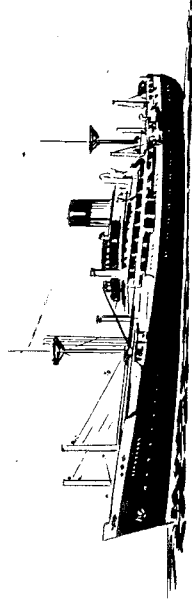
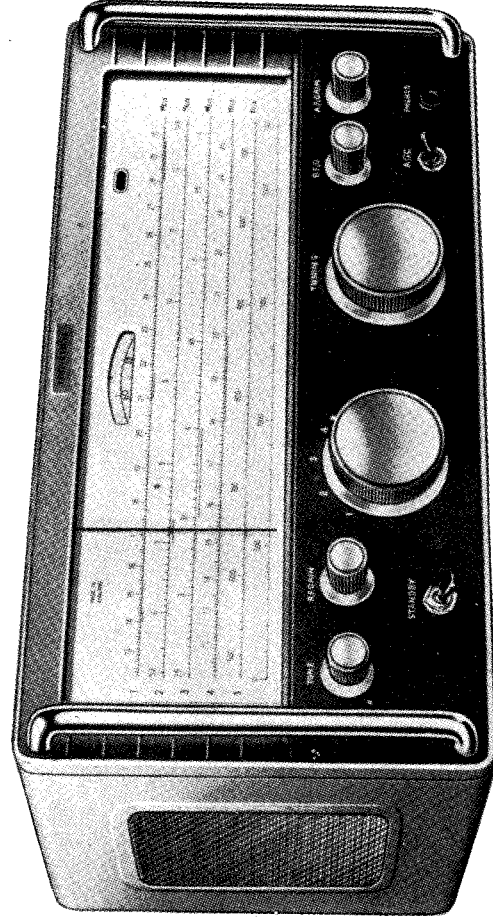
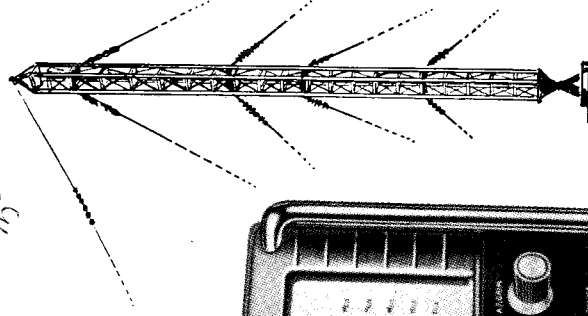
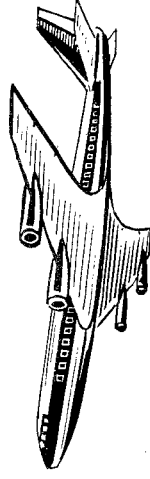


Underside view of the sturdy diecast Coil-Box

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The "840C" embodies the same constructional techniques found in the more expensive EDDYSTONE models. The aluminium diecastings used for the front panel and coil unit make for great rigidity without adding excess weight. The cabinet is strongly made from rust-proofed steel and the receiver will withstand considerable rough handling without damage. The "840C" is ruggedly constructed and, at the same time, has a pleasing modern appearance. The basic drive system used is the same as that found in practically all EDDYSTONE receivers. It is accepted as the ultimate drive unit against which others are judged. The fine silky action is known the World over and the effective tuning ratio of approximately 130-1 adds precision to accurate tuning.

A vernier disc located centrally above the main scales is used in conjunction with a horizontal scale to provide 2300 "logging" divisions on each range.



MODEL 840c

For a number of years, the Eddystone "840" series of communications receivers has proved extremely popular and as sound, straightforward, well-engineered instruments, they have done a remarkably good job of work throughout the World.

This brochure describes in detail the "840C", which is basically similar to its forerunners. The circuit is of the same type, but a number of technical improvements have been made, with the result that the performance of the current model is exceptionally good.

A special feature of the "840C" is the extended bandspread combined with greater ease of tuning and station logging. This has been achieved by spreading the coverage over additional ranges and introducing ratio-tuning which improves the linearity of the calibrated scale.

The "840C" incorporates the wealth of Eddystone experience and "known-how" acquired over a period of many years in the design and production of communications receivers covering a wide range of frequencies. Materials of the highest quality only are incorporated and many of the components are designed specially for this model.

Construction is extremely robust: the workmanship is unexcelled and altogether the receiver represents a sound engineering product, offered at a figure which reflects very good value.

The full technical specification is given elsewhere, but two features we would mention here are the silky yet wholly positive tuning control, due to the very fine gear drive mechanism. The excellence of this control — a notable feature of all Eddystone receivers — can only be fully appreciated by actually handling it. The other point is the wide, open scale — again a standard Eddystone design feature — enabling the operator to select or read off a frequency with ease.

The "840C" is designed for optimum performance and constructed in the well-known Eddystone engineering tradition, the front panel, knobs and general presentation conforming to modern standards. Outwardly the "840C" has a completely "new look" and we are confident it will appeal strongly on all counts to all classes of user.

An EDDYSTONE receiver ensures high