

The following accessories are recommended for use with Eddystone receivers. An external loudspeaker is required with communication models "888A" "750" and "680X."

Cat.	Cat.	Cat.	Cat.
Cat. No. 812	Cat. No. 774	Cat. No. 811	Cat. No. 688
812	774	811	888
Mounting Blocks (polychromatic grey) for "680X" receiver pair	Mounting Blocks (black) for "840A" and "750" receivers pair	Diecast Speaker (polychromatic grey for "680X")	Diecast Speaker (black to match "888" and "750")

Cat. No. 669 "S" Meter for "750" and "888" receivers

Cat. No. 687/1 Vibrator Unit 6 volts input, for "750" and "888" receivers ...

Cat. No. 732 Mains Filter Unit

Cat. No. 731 Doublet Aerial (50 feet feeder) ...
Cat. No. 731/1 Doublet Aerial (100 feet feeder) ...

(The model "888" referred to above is a special Amateur Band only receiver — details on request).

MANUFACTURERS:

STRATTON & CO. LTD.

ALVECHURCH ROAD, BIRMINGHAM 31 Cables: STRATNOID, BIRMINGHAM. Telephone: PRIORY 2231/4

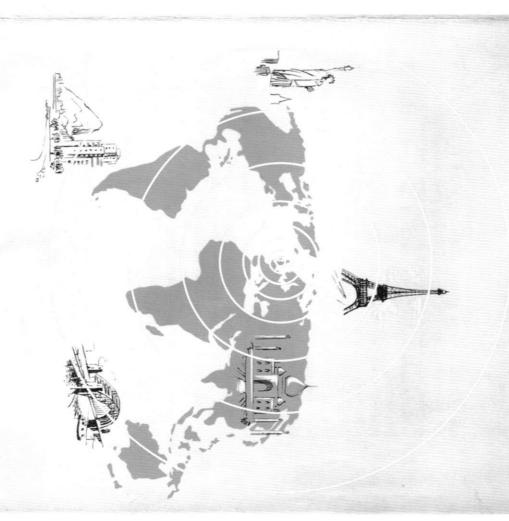




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EDDXSTONE

FOR WORLD - WIDE RECEPTION



INFORMATION CONCERNING

EDDYSTONE RECEIVERS

in appearance, construction and ease of operation. an Eddystone receiver, you cannot fully appreciate its merits you have had the opportunity of actually seeing and testing these receivers at anywhere near their price levels. Until to the highest possible level. You will find nothing to equal of each has, by careful design and development, been brought Details of current models are given and the performance

auxiliary scale, with a further reduction, provides adequate and the high reduction ratio simplifies accurate tuning. An fine piece of work. The flywheel loading gives smooth control tuning knob drives a geared mechanism, which in itself is a There are a number of features common to each model. The

and air trimmers, whilst the I.F. transformers and B.F.O. oscillator coils are fitted with variable powdered-iron cores thorough and stability is of a high order. units are permeability tuned. Screening and decoupling are performance, are used throughout. The signal frequency and Modern types of valves, especially selected for optimum

feeders may be connected (except "820"). Either a single wire unbalanced aerial or twin balanced but good results are secured with almost any type of aerial In most cases the aerial input impedance is normally 400 ohms

with a comprehensive instruction manual Each receiver is guaranteed for twelve months and is provided

of an external circuit. kinds of interference, whilst the standby switch mutes the The noise limiter is effective against ignition and similar control gives a variation of plus or minus three kilocycles panel takes high resistance telephones. The B.F.O. pitch "840A" is fitted with a speaker internally). A jack on the or 811 (polychromatic grey) being recommended. (The for a 2.5 ohm speaker, the Eddystone Cat. No. 688 (black) COMMUNICATIONS MODELS.—Terminals are provided receiver when desired and can also be used for the control



THE EDDYSTONE "680X" RECEIVER

This model has many refinements, including crystal filter, variable selectivity, "S" meter, push-pull output and stabilized supply to the selectivity, "S" meter, push-pull output and stabilized supply to the oscillator stages. The "680X" is essentially for the Professional user or for the Amateur who requires a communication receiver having a superb performance.

FREQUENCY RANGES.

VR150/30		V15	:	:	:	:	:	Voltage Stabiliser
5Z4G		V14	:	:	:	:	:	Rectifier
6AL5/D77		V13	:	:	:	:	Meter	Joise Limiter/" S " Meter
6BA6		V12	:	:	:	:	illator	Beat Frequency Oscillator
6AM5/EL91	V11	V10 and	:	:	:	:	:	Push-Pull Output
6BR7	V9	V8 and V9	:	:	:	:	rs	Two Audio Amplifiers
6AL5/D77		V7	:	:	:	:	:	etector and AGC
6BA6	76	V5 and V6	:	:	:	/s.)	(450 kc/s.)	Two I.F. Amplifiers
6AM6/Z77		V4	:	:	:	:	:	Separate Oscillator
6BE6		V 3	:	:	:	:	:	Frequency-changer
6BA6	V2	V1 and V2	:	:	:	:	:	Two R.F. Amplifiers
		tions:	ing func	follow	rm the	perfo	valves	CIRCUIT.—Fifteen valves perform the following functions:
					5 Mc/s.	to 2	7 Mc/s.	:
1120 kc/s. to 480 kc/s.	1120 kc/s.	:	Band 5		3 Mc/s.	to 5	12.5 Mc/s. to 5.3 Mc/s.	Band 2 12
2.5 Mc/s. to 1.11 Mc/s.	2.5 Mc/s.	:	Band 4	-	30 Mc/s. to 12·3 Mc/s.	to 1	30 Mc/s	Band 1

ratio, 4 microvolts or better on all ranges. ELECTRICAL PERFORMANCE. - Sensitivity for 50 milliwatts, 15 db signal/noise

SELECTIVITY.—Bandwidths at 6 db down.

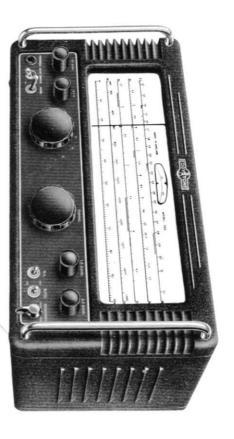
and greater with crystal switched in and phased. First intermediate Maximum ... Second intermediate 4 kc/s. 2·5 kc/s.

input, above 1 microvolt at 9 Mc/s. AUTOMATIC GAIN CONTROL .- 9 db change of output for 100 db change of

AUDIO OUTPUT.—Undistorted 2 watts; maximum 4 watts. The audio stages are linear within 3 db from 50 to 10,000 cycles. Pick-up terminals are fitted.

FINISH.—Polychromatic Grey. Weight 47 lbs. POWER INPUT.—80 VA. (1 ampere fuses are fitted)

DIMENSIONS.—Width 163"; Depth 133"; Height 83"



EDDYSTONE "750" RECEIVER

interference. H.T. supply to the oscillators is stabilised. very high selectivity with practically complete freedom from image Of the double superheterodyne communication type, this model possesses

ELECTRICAL PERFORMANCE.—Sensitivity for 50 milliwatts, 15 db signal/noise	dЬ	15	watts,	milli	50	for	nshtivity	-Sei	NCE.	FORM	PER	CAL	ELECTRI
VR150/30			V11	:		:	:	:	:	<u>`</u>	:	:	Stabiliser
5Z4G			V10	:		:	:	<i>:/</i>	:	:.	:	:	Rectifier
6BA6			49	:		:	:	:	:	ator	Oscill	uency	Beat Frequency Oscillator
N78			8	:		:	:	:	``	:	:	:	Output
6AL5/D77			Y 7	:		:	:	:	>	Diodes	Meter	· S :	N.L. and "S" Meter Diodes
DH77			46	:		:	:	:	<	A.F.	C. and	A.G.	Detector, A.G.C. and A.F.
6BA6			٧5	:		:	:	:	::	:	:	fier	I.F. Amplifier
ECH42			V 4	:		:	:	:		equency-changer (to 85 kc/s.)	ger (to	-chan	Frequency
6AM6/Z77			V 3	:		:	:	:	:	:/	:	:	Oscillator
ECH42			V2	:		:	:	<u>`</u>	:	:/s.)	620 kg	. to 1	Mixer (S.F. to 1620 kc/s.)
6BA6			4	:		:	:	:.	:	·	:	ifier	R.F. Amplifier
		••	ctions	g fun	¥.	ollo	pm the f	perfo	valves	Eleven	-UP.	NE	VALVE LINE-UP. Eleven valves perform the following functions
1465 kc/s. to 480 kc/s.	s.	kc,	1465	:		Band 4	Bar	c/s.	o 4.5 M	2 Mc/s. t	/_	:	Band 2
4.5 Mc/s. to 1.7 Mc/s.	s.	Z	4.5	:		Band 3	Bar	c/s.	o 12 M	32 Mc/s. to 12 Mc/s.	/	: ;	Band 1
							_			G	RANGE		FREDUENCY

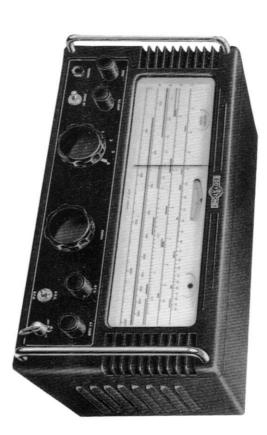
SELECTIVITY.—Is variable over the range 30 db to 60 db down 5 kc/s. off resonance. ratio, 5 microvolts or better on all ranges.

AUTOMATIC GAIN CONTROL.—15 db change of output for 90 db change of Image ratio: better than 40 db at 30 Mc/s. and greater at lower frequencies.

audio stages give linear amplification over a wide frequency range. AUDIO OUTPUT.—Maximum output is 3.5 watts. Pick-up terminals are fitted and input, above 3/microvolts at 8 Mc/s.

POWER/INPUT.—70 watts. Receiver can be operated from a 6 volt accumulator in conjunction with Cat. No. 687/1 Vibrator Power Unit. (A fuse is fitted).

"S" METER.—A socket at the rear accepts the Cat. No. 669 Signal Strength Meter FINISH.—Fine black ripple. Weight 40 lbs. Width 163"; Depth 10"; Height 83"



THE EDDYSTONE "840A" RECEIVER

Of sound design, and employing seven B8A valves in a straightforward superheterodyne circuit, the " 840A" receiver fulfils the demand for a sensitive communication receiver at a moderate price. A speaker is fitted internally.

to 3-7 Mc/s. Band 4
Band 2 30-6 Mc/s. to 30-5 Mc/s. Band 3 3-8 Mc/s. to 1-4 Mc/s. Band 2 205 metres to 620 metres

ratio, better than 10 microvolts on all ranges. ELECTRICAL PERFORMANCE.—Sensitivity for 50 milliwatts, 15 db signal/noise

SELECTIVITY.—30 db down 10 kc/s. off resonance. Image ratio: better than 15 db at 30 Mc/s. and greater at lower frequencies.

change of input, above 10 microvolts at 8 Mc/s. AUTOMATIC GAIN CONTROL.—Less than 25 db change of output for 80 db

AUDIO OUTPUT.—Undistorted 0.75 watts, maximum 1.2 watts.

POWER INPUT.—0.275 (approx) amperes. AC/DC 100/115 and 200/250 volts.

FINISH.—Fine black ripple. Weight 30 lbs.; Width $16\frac{3}{4}$ "; Depth 10"; Height $8\frac{3}{4}$ ".



THE EDDYSTONE "820" UNIT

The "820" unit is specially designed to give first-class reception of FM transmissions. It possesses high sensitivity and will therefore give good results in areas where signal strength is low. The audio quality is outstanding and, for best results, the "820" unit should be followed by an amplifier capable in itself of maintaining high quality. The unit is self-powered and can be installed without difficulty. Three pre-set channels for A.M. broadcast stations are also available.

FREQUENCY COVERAGE.

Complete continuous tuning over Band 2 87-5 to 100 Mc/s. One spot frequency between 1550 and 960 kc/s. (MW1). One spot frequency between 960 and 610 kc/s. (MW2). One spot frequency between 250 and 150 kc/s. (LW).

CIRCUIT AND PERFORMANCE.—Eight miniature valves a action is secured on FM with a signal of 25 microvolts. The factor Seeley type and distortion is kept to a very low level.

CIRCUIT AND PERFORMANCE.—Eight miniature valves are used and full limiting action is secured on FM with a signal of 25 microvolts. The discriminator is of the Foster-Seeley type and distortion is kept to a very low level. Audio output is at high impedance and up to 0.5 volts (approx.) is available.

On A M the first two valves are switched out of circuit and a germanium diode is

On A.M, the first two valves are switched out of circuit and a germanium diode is brought in to demodulate the signal. Sensitivity and selectivity are adequate for good performance. Audio output up to 0.2 volts (approx.).

CONTROLS.—A five position switch selects pick-up: medium wave 1: medium wave 2: long wave: VHF/FM.

POWER SUPPLY.—Built-in power unit operating from standard AC mains 200/240 volts, 40/100 cycles.

PHYSICAL DETAILS.—Panel height $6\frac{1}{4}$ "; width 11"; overall depth 10"; weight 11½ lbs. Size of cut-out to take unit $10\frac{1}{2}$ " by $5\frac{3}{8}$ ".



THE EDDYSTONE "870" RECEIVER

A compact, light-weight receiver, of the AC/DC type, equally suitable for use at home or in a ship's cabin. Although relatively inexpensive, the "870" is capable of a good performance and, as with other Eddystone models, is designed for use in any climate.

(789 to 2000 metres)	2000	to	(789	150 kc/s.	to	380 kc/s. to 150 kc/s.	:	:	:	:	4	Band 4
metres)	556	to	(200	540 kc/s.	ö	1500 kc/s.	:	:	:	:	ω	Band
metres)	153-8	to	(47.6	1.95 Mc/s.	ö	6·3 Mc/s.	:	:	:	:	2	Band
metres)	50.7	to	(16.66)	5.9 Mc/s.	to	18 Mc/s.	:	:	:	:	_	Band
							Ë	'ERAG	COV	FREQUENCY COVERAGE	č	FREG

CIRCUIT.—Five valve superheterodyne, using modern International type valves readily obtainable anywhere. Highest grade components throughout.

POWER SUPPLY.—Operates equally well from AC or DC mains, 100/120 and 200/250 volts. Consumption 0·2 amperes.

SPECIAL FEATURES.—Geared drive flywheel controlled system leads to precise tuning, aided by the wide, clear scales. Vernier logging scale is incorporated. There is a built-in mains filter, to reduce electrical interference, and the choke smoothing ensures low back-ground noise and absence of hum. Thoroughly insulated to allow metal cabinet to be directly earthed. Adequate volume and good tonal quality. Internal speaker is fitted.

PHYSICAL DETAILS.—The metal cabinet is finished in a pleasing two-tone style, offset with chromium handles. Width 11"; depth $8\frac{1}{16}$ "; height $6\frac{3}{8}$ "; weight $11\frac{1}{2}$ lbs.