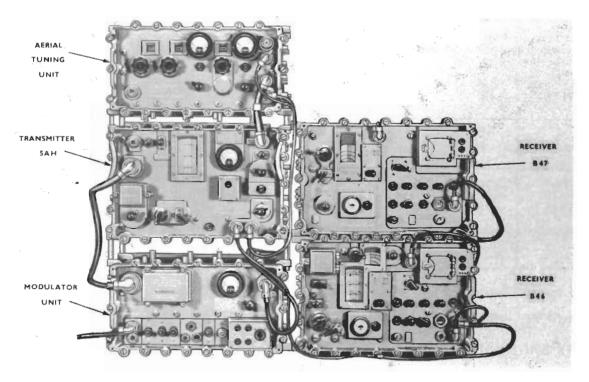
SUMMARY OF DATA



TYPE 612E - GENERAL VIEW OF EQUIPMENT

PURPOSE

A general purpose low power HF AM transmitter, HF receiver and a M, L, and VLF receiver, the equipment being designed as a number of transportable watertight units.

Type 612E - emergency equipment in destroyers and replaces Types TCS and 607/8

Type 612EF/F - emergency transmitter in Bridge Wireless Office of cruisers and 2nd Wireless Office of Flotilla Leanders and replaces Type 60EQR

Type 612ET - temporary shore station used by landing parties etc. and replaces Type 52ERT. The equipment can be moved and erected by two men

TYPE OF TRANSMISSION AND RECEPTION

CW, MCW or Voice

FREQUENCY RANGE

Transmitter 5AH - 1.5 to 13.0 MHz Receiver B46 - 1.4 to 15.0 MHz

Receiver B47 - 40.0 to 500 kHz and 15.0 to 27.0 kHz

BRIEF DESCRIPTION

Transmitter 5AH, Patt. 59517

Frequency - 1.5 to 13.0 MHz

Frequency Control - Master Oscillator self excited or crystal controlled

Output - 12 to 20 watts on Voice or MVW or 20 to 40 watts on CW, into a 100 ohm unbalanced

line or Aerial Tuning Unit

Keying - Up to 20 words per minute with 'break-in' facilities

Anode Modulation is employed and unit incorporates a 100 kHz Crystal Calibrator

Modulator for iransmitter 5AH D.C. Supply, Patt 65169

Comprises the modulator circuits, control circuits and the O.C. power supply unit for itself and Transmitter 5AH. The MCW note is 800 Hz and the Augio Frequency response for Voice is 400 to 3000 Hz.

Aerial Tuning Unit, Patt. 65168

Comprises a combination of inductors and capacitors, the circuit being tunable over a wide range to provide maximum transference of power from the Transmitter 5AH to the aerial. This unit also contains a Dummy Load for the transmitter.

MAJOR UNITS

Patt. No.	DESCRIPTION	PHYSICAL DATA				ASSOCIATED WITH
		неізһі	width	Depth	Weight	ASSOCIATED WITH
59517 65169 65168	Transmitter 5AH Modulator Unit Aerial Tuning Unit	17 in 15¼ in 15¼ in	224 in 224 in 224 in	15 in 15 in 15 in	75 lb 77 lb 59 lb) Types)612E/F/EF/ET
58674	Receiver 846	17 in	20¼ in	13∄ in	60 ln	Types 612E/EF/ET
58675	Receiver B47	17 in	20¼ in	13∄ in	64 15	Types 612E/ET

All physical data is inclusive of the tubular steel carrying crates.

NOTE: For further information on Receivers 846 and 847 see data sheet on Receiver Outfits CAJ, etc.

ANCILLARY EQUIPMENT

Patt. No.	DESCRIPTION	REMARKS
- 66199 66126 - - 58408	Battery Outfit BBn Supply Unit A.C. for Transmitter 5AH Aerial Change—over Switch Battery Outfit BCe Aerial Outfit AWH Remote Control Unit	Normal office battery supply for Type 612EF Type 612EF/F only Fitted with all installations Type 612E/EF/ET Not supplied to Coastal Craft Type 612ET only

POWER REQUIREMENTS AND CONSUMPTION

By using appropriate power units Transmitter 5AH and Receivers 846 and 847 can be operated from 24 V D.C., 230 V 50 Hz with the following power consumptions :-

Transmitter 5AH - 250 watts; Receiver 846 - 42 watts; Receiver 847 - 26 watts.

CONTROL CIRCUITS

Ashure - Type 612ET can be operated in 'Local Control' or operated remotely up to a distance of 800 yards.

- Types 612E/F/EF can be adapted for use with the Wireless Control Outfits &CH, KDA and Ship KHA series.

HEAT DISSIPATION

- 250 watts

3085

AERIAL SYSTEM

Transmitter 5AH - With the Aerial Juning Unit any vice terial 15 - 120 feet long or Whip Aerial Outfit AWG. - Any wire aerial 40 ft long of which at least half must be vertical or Whip Aerial Outfit AWG. Receiver 846 - Any wire aerial 30-50 ft long of which at least malf must be vertical or whip Aerial

Receiver 347 Outfit A. ..

HANDBOOK ESTABLISHMENT LIST INSTALLATION SPECIFICATION

E981 (Type 612ET); E965 (Types 612E/F/EF)