

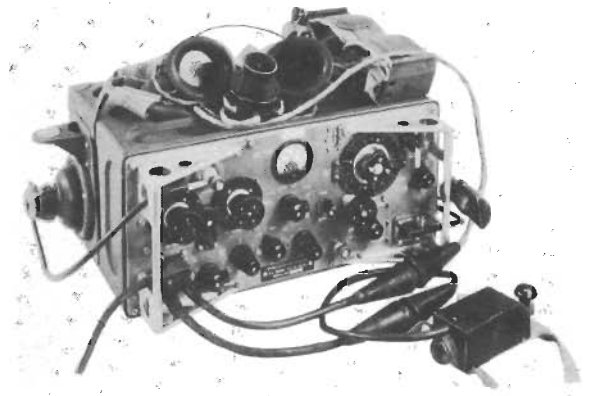
SUMMARY OF DATA

PURPOSE

A short range low power tropicalised portable transmitter-receiver (Army Wireless Set No. 62) for voice and cw communication.

BRIEF DESCRIPTION

This Set is housed in an aluminium case with an internal power unit. The receiver is a normal eight valve superheterodyne, one r.f. mixer and separate local oscillator, two i.f.'s detector A.G.C. pentode output and beat oscillator for cw. The intermediate frequency is 460 kHz. The transmitter operates on the transmitter-mixer principle in which the local oscillator output is mixed with that from the beat oscillator. The signal frequency is selected from the mixer output amplifier and used to drive the power amplifier. The local oscillator may be crystal controlled.



GENERAL VIEW OF EQUIPMENT

FREQUENCY RANGE

1.6 to 10 MHz in two ranges 1.6 to 4 MHz and 4 to 10 MHz (8 to 10 MHz to be used only in emergency).

MAJOR UNIT AND PHYSICAL DATA

ZA39714 Army Wireless Set No. 62 Mk. 2

<u>Height</u>	<u>Width</u>	<u>Depth</u>	<u>Weight</u>
8½"	17½"	13½"	29 lb

PERFORMANCE

Sensitivity - 3µV for 10 mW and Signal noise ratio of 20 dB.

Range - 14 miles on voice and 20 miles on cw using a 14 ft whip aerial.

POWER REQUIREMENTS AND CONSUMPTION

The power is derived from a 12 V battery driving a rotary transformer to provide h.t. at 300 V. The valve heaters are connected in series parallel to the 12 V supply.

Consumption -	Receiver	3.4 amps
	Voice	4.4 amps
	C.W.	4.7 amps
	Listening Watch	2.8 amps

AERIAL SYSTEM

8 to 32 ft whip aerial or 100 ft sectional wire aerial.

REMARKS

The set is immersion proof for five minutes and will float. Remote control facilities are available.

HANDBOOK

BR 1747 E.M.E.R. Telcon F510, F512, and F514.

ESTABLISHMENT LIST

E1038

ESTABLISHMENT LIST