

SUMMARY OF DATA

PURPOSE

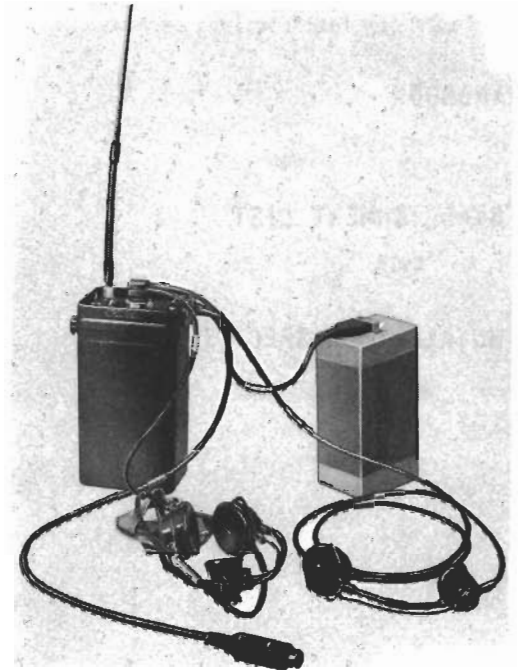
A short range tropicalised portable FM transmitter-receiver for Voice communication. (Army Wireless Set No. 88).

FREQUENCY RANGE

40-0 to 43 MHz with four spot frequencies 40.2, 40.9, 41.4 and 42.15 MHz.

BRIEF DESCRIPTION

A 14 valve UHF transmitter-receiver. The transmitter employs four valves, reactor, master oscillator, frequency doubler and power amplifier. A frequency stabilising circuit is included. The ten valves of the receiver are, RF amplifier, mixer, oscillator and frequency trebler, three IF amplifiers, limiter, discriminator and AF amplifier. The Intermediate Frequency is 3 MHz. Four spot frequencies, crystal controlled are selected by a channel selector switch. The complete set including batteries can be carried in two satchels. The range is 1-1½ miles approximately with a four foot rod aerial.



MAJOR UNITS

Army Ref.	DESCRIPTION	PHYSICAL DATA			
		Height	width	Depth	weight
21/2A32972	Wireless Set No. 88 Types A	9½ in	5½ in	3½ in	5 lb
WB4133	Battery, dry HT/LT 94/1.3 V No. 1	9½ in	5½ in	3½ in	4½ lb

The complete set weighs 11 lb.

PERFORMANCE

Receiver Output 2 mW
Sensitivity 1.8 μ V input for a 20 dB signal to noise ratio.

Transmitter Output 9.25 W.

POWER REQUIREMENTS AND CONSUMPTION

	HT 90 V	LT 1.4 V
<u>Transmitter</u>	40 mA	1A
<u>Receiver</u>	10 mA	0.7A

The battery life is 24 hours (in three periods of 8 hours) with a transmit-receive ratio of 1 to 5.

AERIAL SYSTEM

- (a) 4 ft vertical rod.
- (b) 11 ft vertical rod - with ground spike - half wave aerial.
- (c) An 'invisible' aerial - 4 ft (approx) of rubber covered wire.

REMARKS

There is an extension socket for an additional handset. The equipment is immersion-proof up to a depth of six feet for long periods.

HANDBOOK

BR 1827

ESTABLISHMENT LIST

E975

INSTALLATION SPECIFICATION

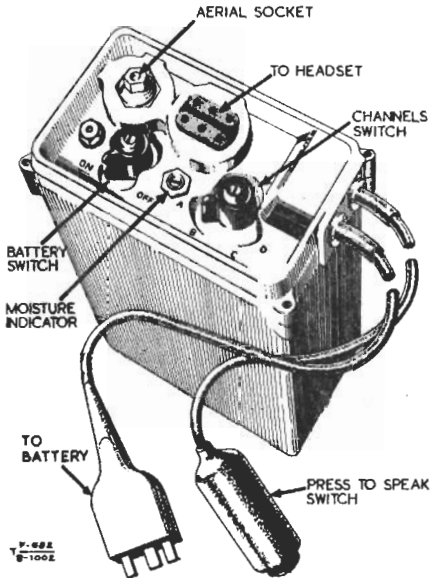


Fig. 1002 - Control panel layout