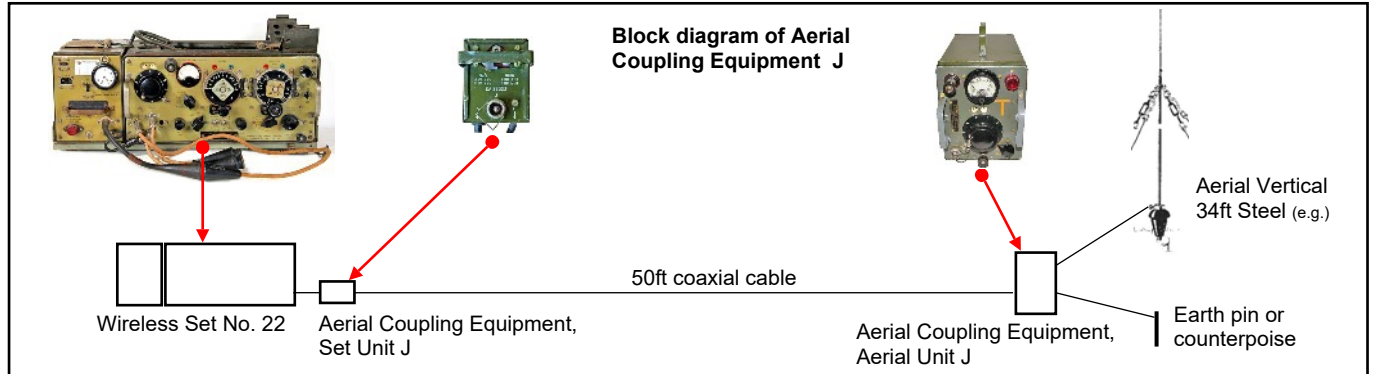


Volume 2 AMENDMENT No. 9 V 1.01

Date of issue: November 2022.

After the publication of 'Wireless for the Warrior' Volume 2 'Wireless Sets of WW2', a small number of minor (typing) errors and incorrect data was spotted. Corrections, additional photos and newly found items are published in 'Volume 2 Amendments'. Double side printed on A4 paper, cut away circa 7 mm from the bottom and side of the sheet. The prepared sheets will fit snugly between the inside cover and dust cover flap.

Aerial Coupling Equipment J

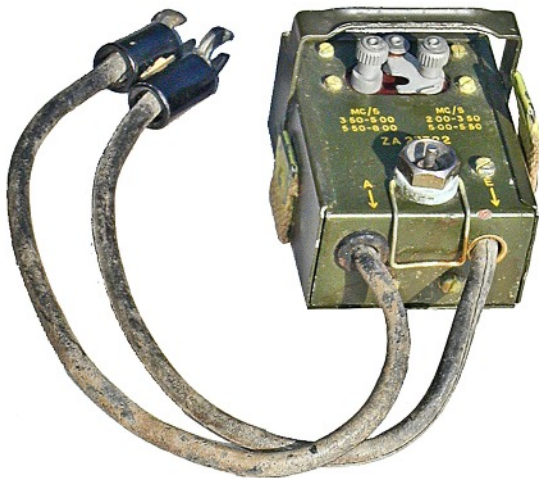


REMARKS

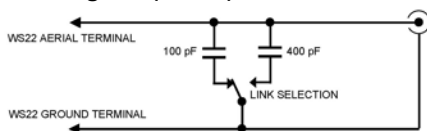
Aerial Coupling Equipment J allowed a Wireless Set No. 22 ground station to be operated from cover at a distance of up to 50ft from a vertical aerial erected in the open. Advantage of this type of remote operating was that the set could be tuned (over a limited frequency range) at the operating position. The equipment was comprised of a set unit (Aerial Coupling Equipment, Set

Unit J) and an aerial unit (Aerial Coupling Equipment, Aerial Unit J) connected together by a 50ft coaxial cable. Set Unit J connected the WS No. 22 to the coaxial cable; impedance matching was by two capacitors, selectable for 4 frequency ranges. Aerial Unit J comprised a variable inductance and a function switch allowing the aerial to be matched for maximum brilliance of a bulb or maximum deflection on an Ammeter HF 350mA No. 1. It should be noted that the

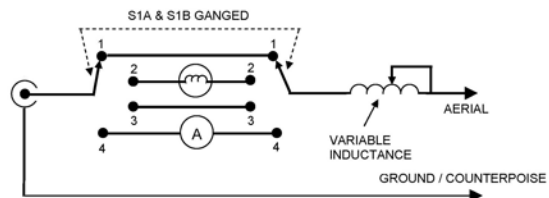
variable inductor in the Aerial Unit J was identical to the one fitted in Wireless Set No. 22, and in the Inductance Aerial Tuning No. 1 (ZA10435) of Wireless Set No. 19 High Power. Noted is the use of Aerial Unit J in lieu of the Inductance Aerial Tuning No. 1. Later issued tropicalised versions were known as Set Unit JT and Aerial Unit JT.



Aerial Coupling Equipment, Set Unit JT (above) and circuit diagram (below).



Aerial Coupling Equipment, Aerial Unit JT (above) and circuit diagram (below).



- 1= work
 - 2= lamp (6volt, 50mA)
 - 3= work
 - 4= meter (RF current)
- Function switch S1.

Due to a shortage of the Inductance Aerial Tuning No. 1 (left) as used with Wireless Set No. 19 high power, it was substituted by Aerial Coupling Equipment, Aerial Unit J.



Inside view of tropicalised Aerial Coupling Equipment, Aerial Unit JT, ZA25914.



Initial version of Aerial Coupling Equipment, Aerial Unit J, ZA12641. It is interesting to note that this Aerial Unit J came with an Aerial Base No. 10 fitted on top, believed to be a local modification.

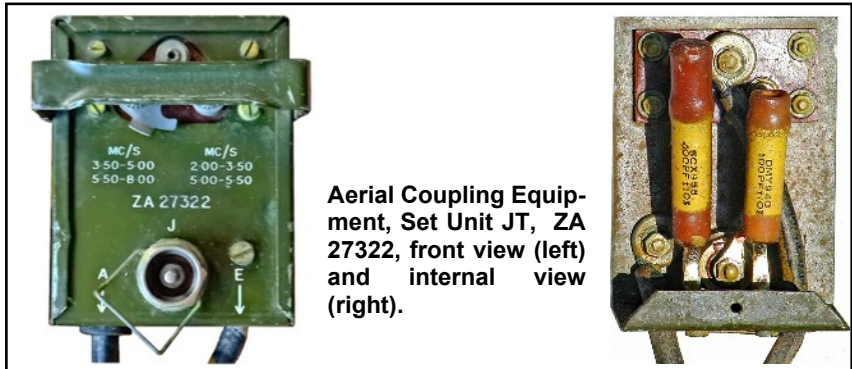


Refurbished Italian Army Aerial Coupling Equipment, Aerial Unit J labelled 'Variometro-A'. This might possibly indicate that it was also used as a substitute for a standard Wireless Set No. 19 variometer.

Difference in lamp cover colour: After observing photographs of a number of Aerial Unit J and JT it was found that almost all the lamp covers fitted in the J version were white and those of the tropicalised JT version were red.



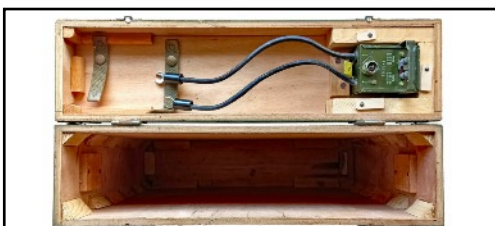
Photograph showing a rare canvas cover for Aerial Coupling Equipment, Aerial Unit JT.



Aerial Coupling Equipment, Set Unit JT, ZA 27322, front view (left) and internal view (right).

Examples of functionally similar equipment allowing a set to be operated from cover with the aerial located at a distance can be found in WftW Volumes 1 and 2:

- Aerial Coupling Equipment A (WS No. 1). Volume 1, page WS1-5.
- Aerial Coupling Equipment B (WS No. 2 and No. 9). Volume 1 pages WS2-6 and WS9-11.
- Aerial Coupling Equipment C (WS No. 11). Volume 1 page WS11-12/13.
- Aerial Coupling Equipment F (WS No. 12). Volume 1 page WS12-7.
- Matching Unit Aerial No. 3 (WS No. 31). Volume 2 page WS31-25.



Wooden transport case for Set Unit JT and two 50ft coaxial connectors.

Aerial Coupling Equipment, Set Unit J, ZA10560
Aerial Coupling Equipment, Set Unit JT, ZA27322.
Aerial Coupling Equipment, Aerial Unit J, ZA12641.
Aerial Coupling Equipment, Aerial Unit JT, ZA25914.
Cases Carrying No. 1, ZA23695.

Vocabulary Army Ordnance Stores (VAOS) numbers relating to the various components and versions of Aerial Coupling Equipment J.
Note: The tropicalised 'JT' version was also known as 'Mkl/I'.



References

- Wireless for the Warrior, Vol. 1, L. Meulstee, 1995, isbn 1898805 08 3.
- Wireless for the Warrior, Vol. 2, Chapter WS22, L. Meulstee, 2001, isbn 1898805 10 5.
- Wireless Set No. 22, Working Instructions Part 1, ZA14048, WO Code Nr. 1058, n.d.
- Wireless Set No. 22, Working Instructions, ZA14048, WO Code Nr. 1058, 2nd edition, April 1945.
- Photographs courtesy Keith Watt, G4MSF.
- Circuit diagrams drawn by Chris Jones, G8GFB.
- Photograph of Inductance Aerial Tuning No. 1 courtesy Jan Poortman, PA3ESY.