

Amplifier RF No. 2

Part of Wireless Set No. 19 High Power

DATA SUMMARY

Purpose: Amplifying the (modulated) RF output of any version or production Wireless Set No. 19 and so increases its working range. Principally used in a ground or truck station

Year of introduction: Mk.I: 1942/43, Mk.III: early 1950s

System: AM R/T and CW

Types of Aerial: All aerials normally used with the No. 19 Set. Vertical aerials should be at least 12ft or twin 8ft rods (or longer on lower frequencies)

Frequency Coverage: 2-4.5MHz and 4.5-8MHz. Operation between 2-2,1MHz and 7.5-8MHz is possible on any Wireless Set No. 19 but full gain is only obtained from the Mk.III or a specially selected Mk.II set

RF Power Output: AM R/T 10-14W, CW 25-30W

Power Supply: 12V accumulator driving an internal rotary transformer providing 600V at max 240mA

Consumption: Mk.I and Mk.II Mk.III

Transmit 24A 18A

Stand-by 2.5A 1.2A

Size (inches) and Weight (lbs): height length width weight

Amplifier RF No. 2 8½ 12½ 17½ 45

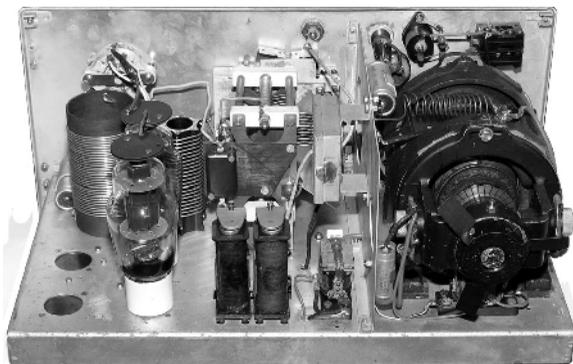
Aerial Tuning Inductance No. 1 5in diameter cylinder 14 5

Valves: Mk.I and Mk.II: 4x ATS25. Mk.III: 2x ATS25

Note: The Amplifier RF No. 2 is designed for automatic transmit/receive operation by the microphone pressel switch; a separate switch is fitted for CW operation. The Aerial Tuning Inductance No. 1 is used for aerial matching to the set, replacing the Aerial Variometer. When the amplifier is switched off, the No. 19 Set operates normally and the aerial tuning inductance is used in place of the standard variometer. Mk.II and Mk.III amplifiers are fitted with a cooling fan and may be run continuously on send

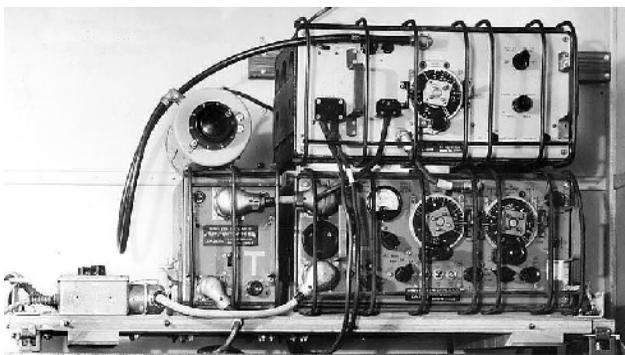
Special connector for use with RF Amplifier No. 2 (right)





Internal view of Amplifier RF No. 2 Mk.III (left)

Complete Wireless Set No. 19 High Power station (right). Note Aerial Tuning Inductance No. 1 mounted on top of the Supply Unit No. 1 Mk.III. The control lead is part of a special 12-12point connector between the supply unit and the set



Wireless Set No. 19 High Power installed in Car 5cwt, 4x4, American jeep (left)

Wireless Set No. 19 High Power in Car 5cwt, 4x4, Rover (right)

