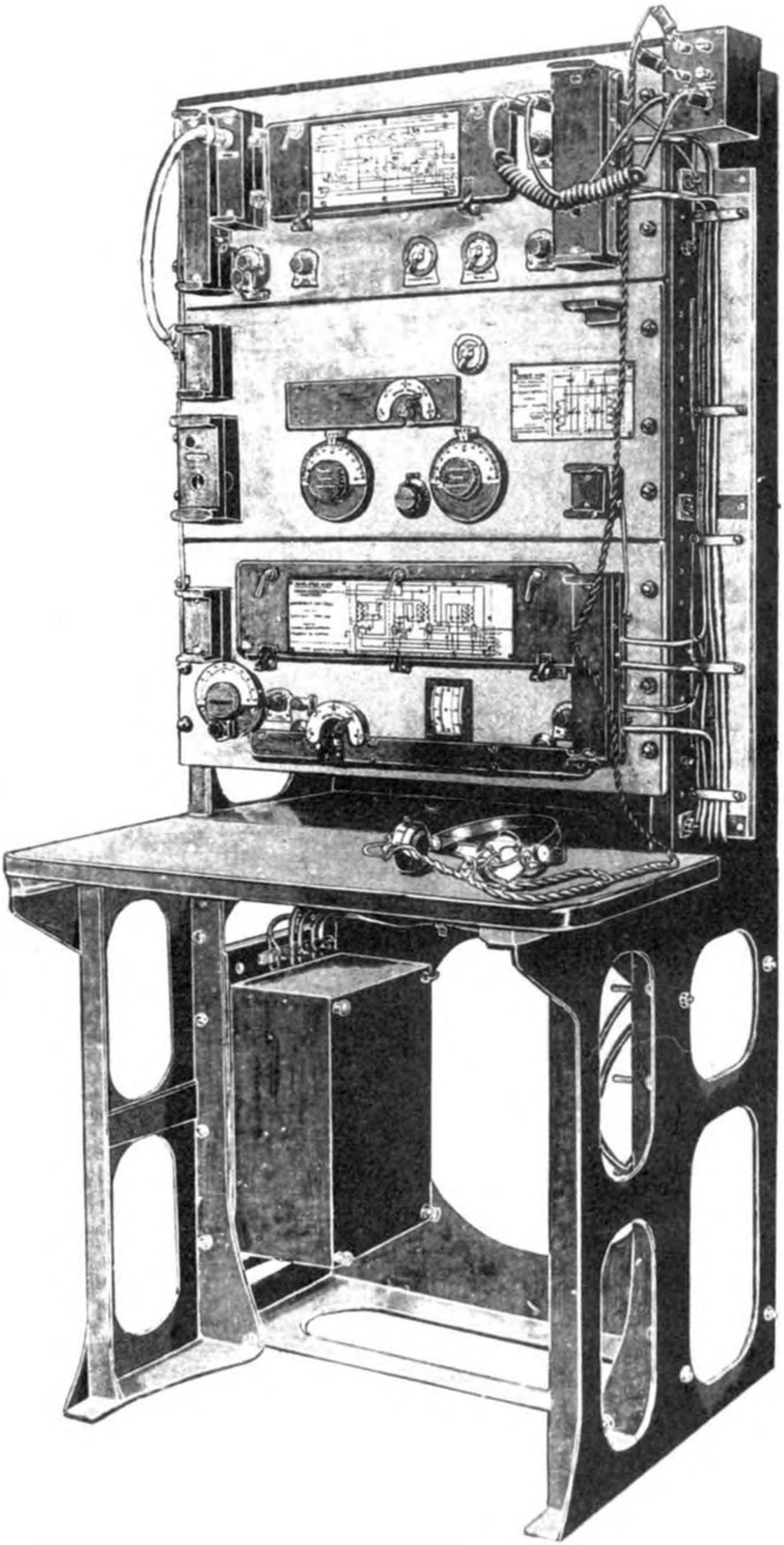
RECEIVER OUTFIT CN.

ASSEMBLY IN RACK FOR W/T INSTRUMENTS.



PATTERN NO. S.S.42.

BOOK OF INSTRUCTIONS FOR RECEIVER OUTFIT CN.

CHAPTER I.

GENERAL DESCRIPTION OF THE OUTFIT.

1. INTRODUCTORY. Receiver Outfit CN, consisting of Tuner A19, Amplifier M19 and Note Magnifier N19, has been designed for general purpose reception covering 15 to 550 kc/s. in the L/F and M/F ranges and will supersede Receiver Outfit CJ (A11, M11, N9 and K5). The three models constituting the complete receiver are mounted in a "Rack for W/T Instruments" as shown in Fig. 1 while Fig. 2 is a diagram of connections between the models etc.

2. The top model, Note Magnifier N19, contains a two-stage note magnifier and note selector in the right hand portion of the box and an aerial isolating unit consisting of a screen-grid valve at the left. The aerial isolating unit belongs to the tuner rather than to the note magnifier. It has been included in N19 to equalise the size and weight of the three models. The centre model, Tuner A19, is a two-stage capacity-coupled tuner. The lower model, Amplifier M19, contains a two stage R/F amplifier and separate heterodyne. These models are fully described in the subsequent chapters of this book.

3. AERIAL CONNECTIONS. The aerial can be plugged into either the Note Magnifier N19 or the Tuner A19. In the former case the aerial is connected via a differential condenser to the grid of the aerial isolating valve with no tuning in the circuit. With this arrangement a number of receivers can be worked from the same aerial without mutual interference. The anode of the isolating valve is connected through screened leads to a coupling coil in the primary circuit of the Tuner A19.

4. In the second case, when the aerial is plugged into the Tuner A19, the aerial connection is through a variable condenser to the primary circuit of the tuner. This condenser is gauged to the primary tuning condenser. This position of the aerial plug does not allow other models to be worked simultaneously from the same aerial; it does, however, give greater freedom from interference by powerful local transmissions.

5. "Arrestors, Protecting, Gas Gap" are fitted, one in the Note Magnifier N19 and two in the Tuner A19 to protect the receiving circuits from high potentials in the aerial.

6. A.C. AND D.C. SUPPLIES. Amplifier M19 and Note Magnifier N19 have been designed to work either with ordinary valves from battery supplies or with indirectly heated valves from an A.C. supply. The H.T. supply is at 100 volts and, in the case of A.C., is obtained from a rectifier with smoothing circuits. The A.C. supplies for the heaters of the

DIAGRAM OF CONNECTIONS

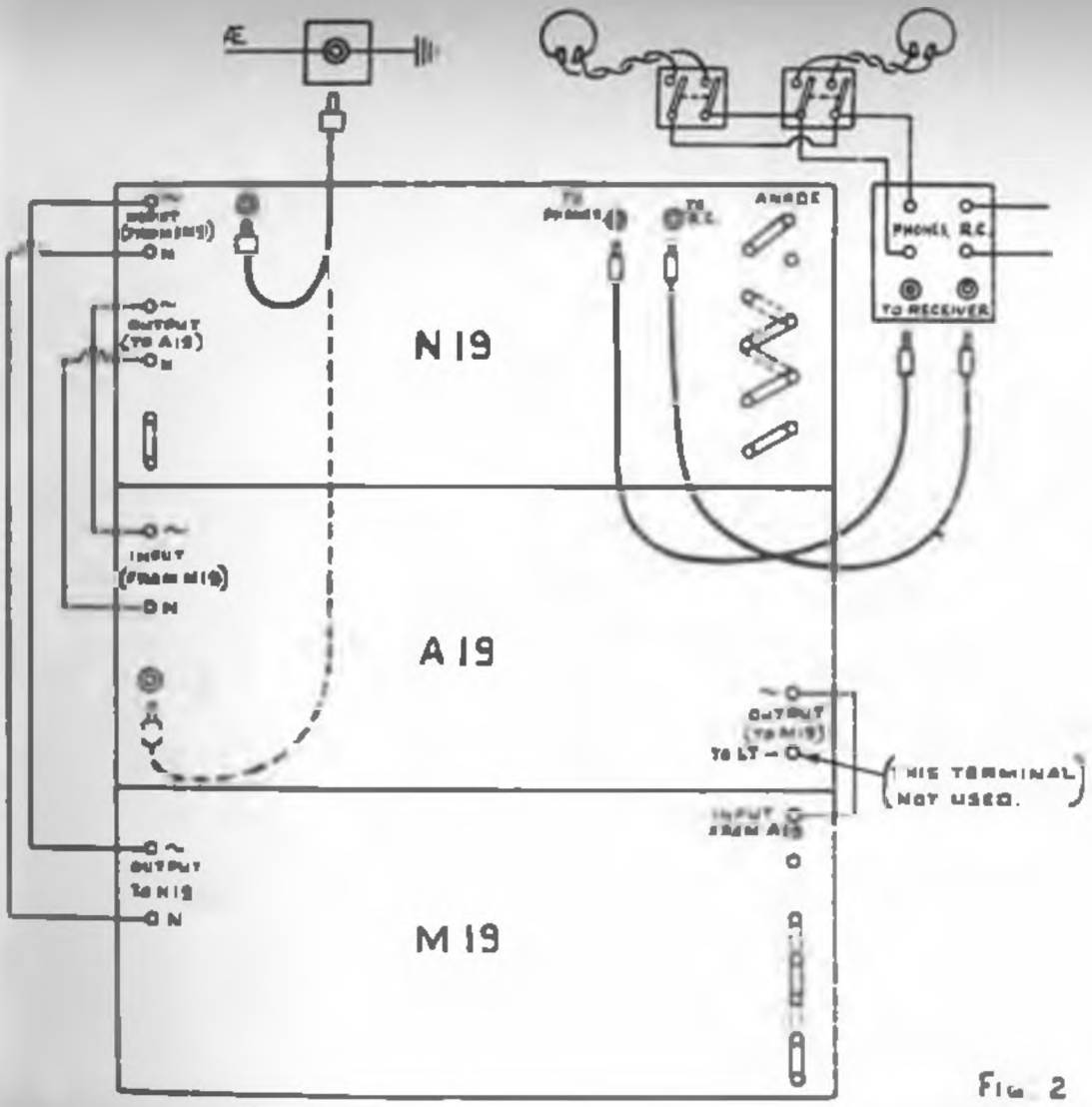
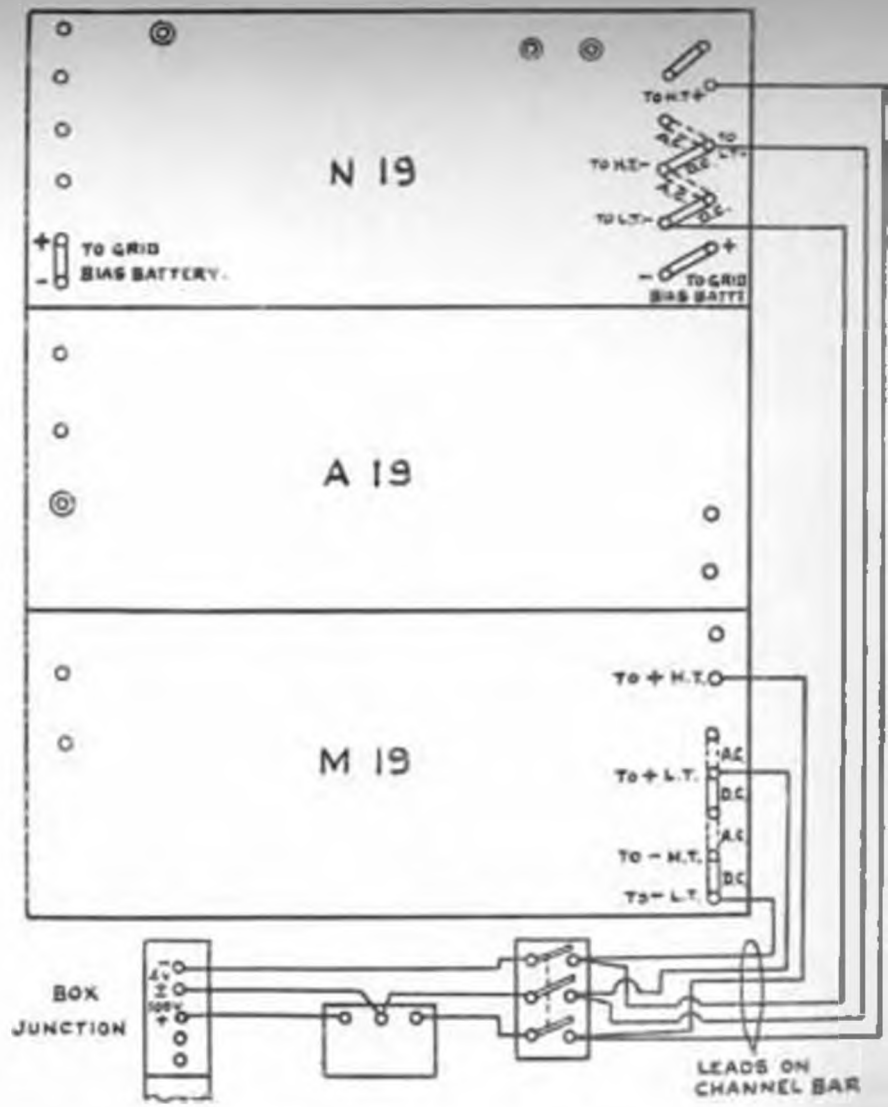


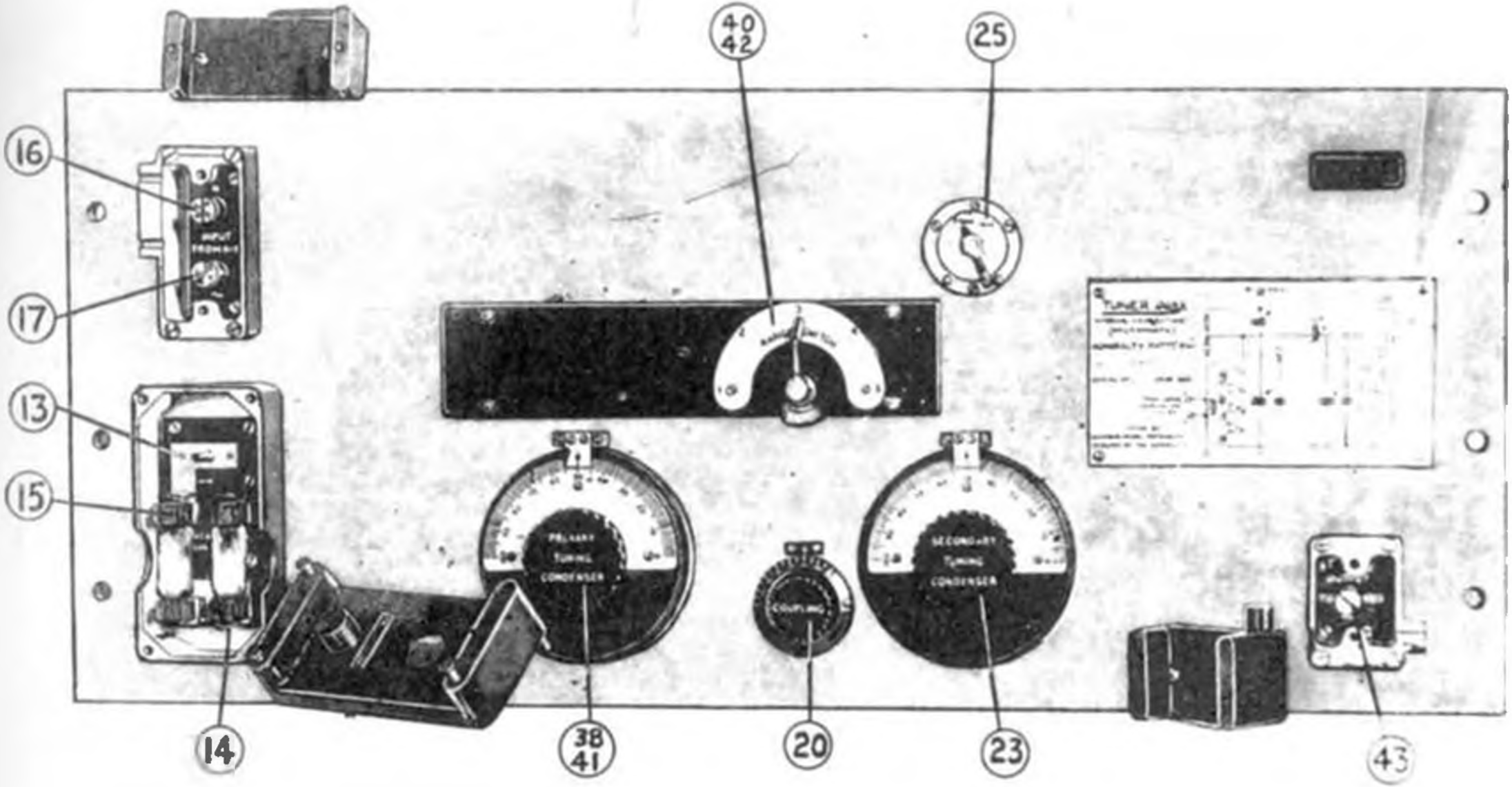
Fig. 2

C N.

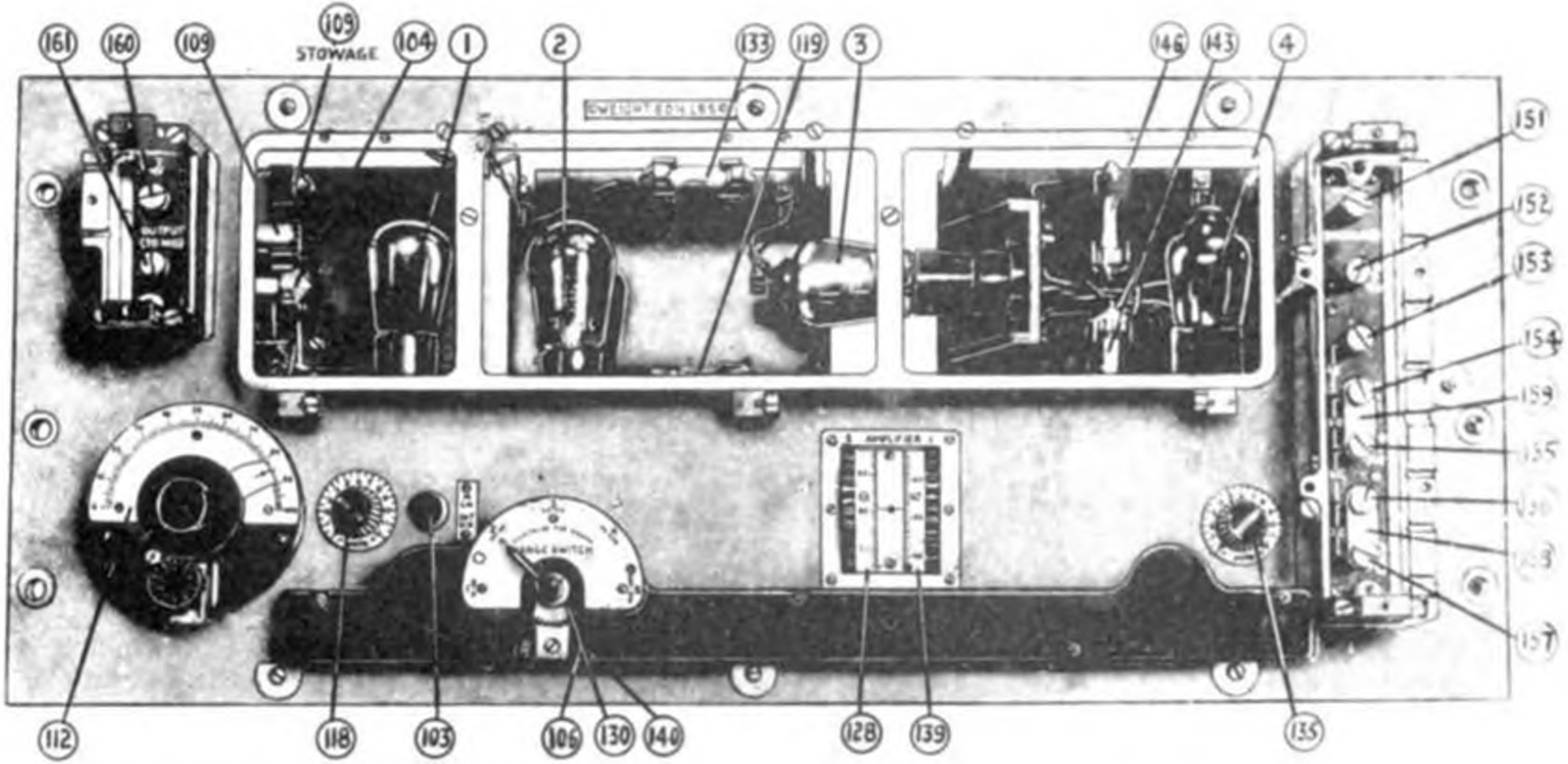
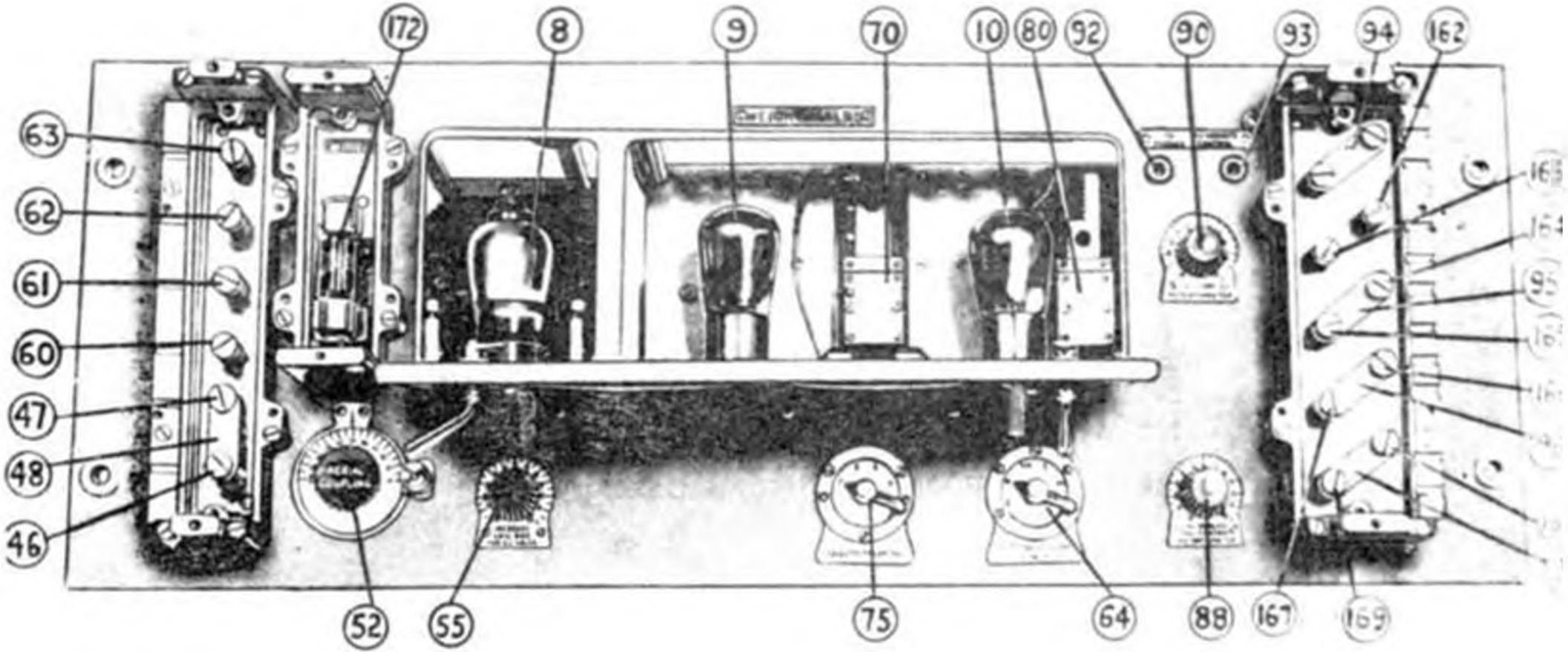
SUPPLY TO VALVES (D.C.)



TUNER A 19



AMPLIFIER M19



NOTE MAGNIFIER N19