

NO. 220 PLUG

1. GENERAL

- 1.01 This section describes the No. 220 plug which has been designed to replace the operator's telephone set when making tests on operators' telephone circuits.
- 1.02 The plug is arranged to substitute resistances for the transmitter and receiver of the operator's telephone set in order to avoid any variations in the measurements which might be caused by either of these instruments.
- 1.03 The plug is small and compact and can be placed inside the cover of the transmission measuring set when testing work is not in progress.
- 1.04 Figure 1 shows a view of the No. 220 plug.

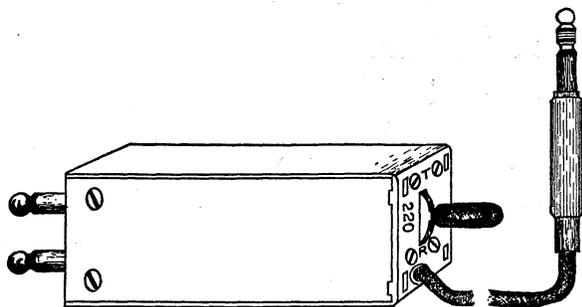


Figure 1

2. DESCRIPTION

- 2.01 The No. 220 plug is an assembly consisting of a No. 2-C key unit, a 40-ohm and a 200-ohm resistance, a double plug suitable for insertion in the operator's telephone set jack, and a No. 798 cord equipped with a No. 202 plug. The No. 202 plug has the same profile as the 110 type plug and may be used in the same jacks as the 110 type plug.

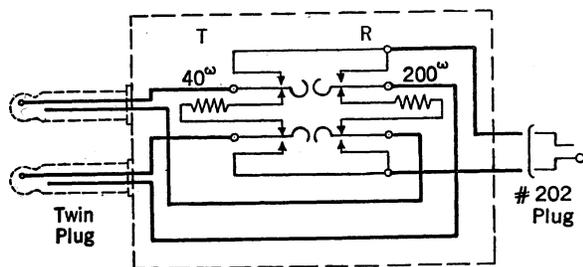


Figure 2

- 2.02 Figure 2 shows a schematic wiring diagram of the No. 220 plug.

3. OPERATION

- 3.01 In making transmission tests on operators' telephone circuits, the double plug of the No. 220 plug is inserted in the operator's telephone circuit jack in the same manner as an operator's telephone set.
- 3.02 The key of the No. 220 plug is arranged to provide three circuit conditions, one when the key is in the normal position and two when the key is in the operated positions. The respective operated positions of the key are designated "T" and "R."
- 3.03 When the key is in the normal position, a 40-ohm and a 200-ohm resistance are substituted in the operator's telephone circuit for the transmitter and receiver respectively.
- 3.04 When the key is operated to the "T" position, which is used during the so-called transmitting tests of the operator's telephone circuit, the transmitter terminals of the operator's telephone circuit are extended to the tip and ring of the No. 202 plug while the 200-ohm resistance remains substituted for the receiver of the operator's telephone set.
- 3.05 When the key is operated to the "R" position, which is used during the so-called receiving tests of certain operators' telephone circuits, the receiver terminals of the operator's telephone circuit are extended to the tip and ring of the No. 202 plug while the 40-ohm resistance remains substituted for the transmitter of the operator's telephone set.
- 3.06 In making a transmitting test of an operator's telephone circuit, the No. 220 plug is used in the following manner. The double plug of the No. 220 plug is inserted in the operator's telephone circuit jack, the No. 202 plug is inserted in the REC jack of the transmission measuring set, and the key of the No. 220 plug is operated to the "T" position.
- 3.07 Figure 3 shows schematically the connections of the No. 220 plug as used in making a transmitting test of an operator's telephone circuit.

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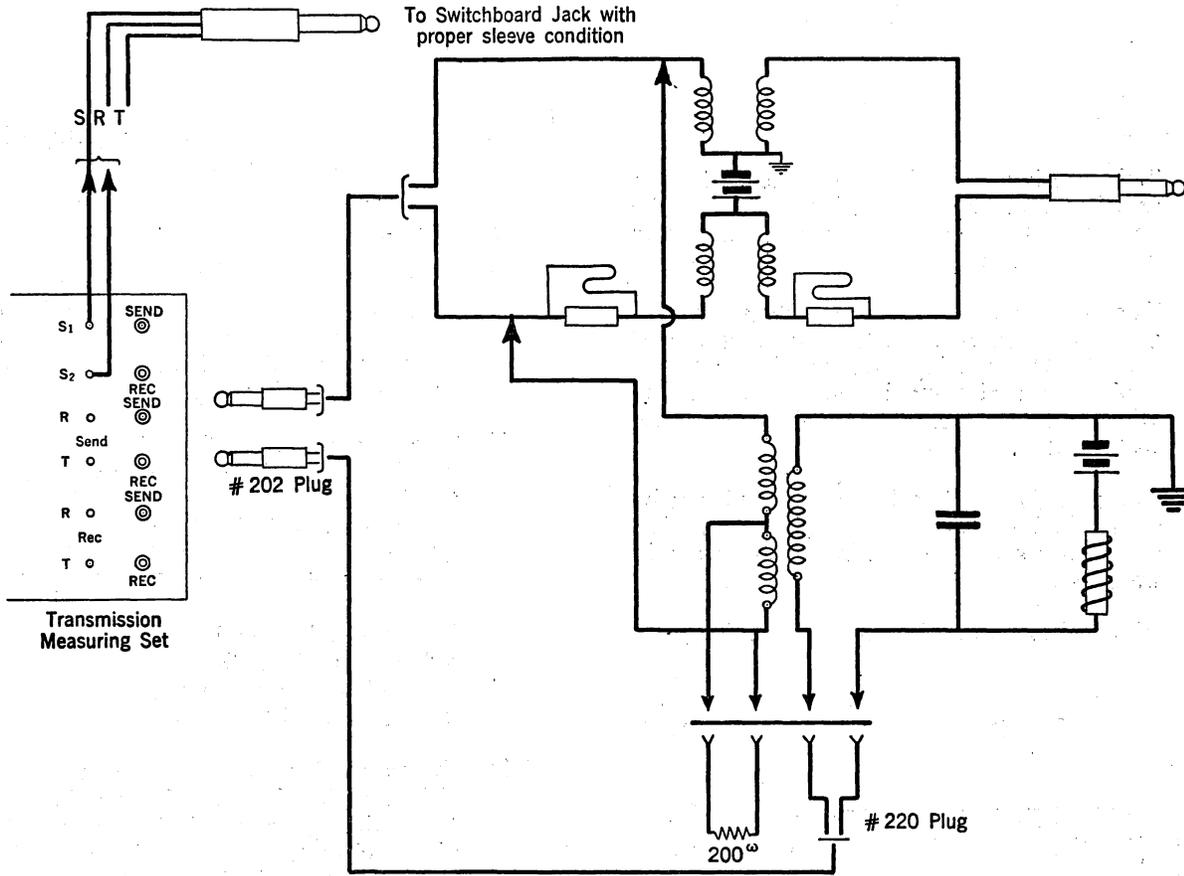


Figure 3