

KEY EQUIPMENTS 10A AND 11A (RECEIVER AMPLIFIER) CONNECTIONS—COMMON BATTERY

1. GENERAL *SEE ADDENDUM.*

1.01 This section covers the connections of equipment at stations where Key Equipments 10A and 11A (receiver amplifiers) are provided at common battery stations.

1.02 Line and ringer connections for Key Equipment 10A are the same as for ordinary stations and are not included.

1.03 The line and ringer connections as well as the necessary circuit changes in the 684A Subscriber Set or equivalent for Key Equipment 11A are shown in Fig. 5 herein.

1.04 Common battery stations for which connections are not shown herein require special treatment and should be referred to the Engineering Department.

1.05 **Sidetone Connections** are shown primarily for maintenance reasons at existing stations. The use of anti-sidetone equipment is recommended for all new installations. Where the amplifier is used with sidetone sets, the connections shown provide sidetone reduction. If in such cases the loop resistance exceeds 180 ohms and the 323 transmitter is used (or 300 ohms when the 337 transmitter is used) the triple wire should be terminated at the subscriber set as follows:

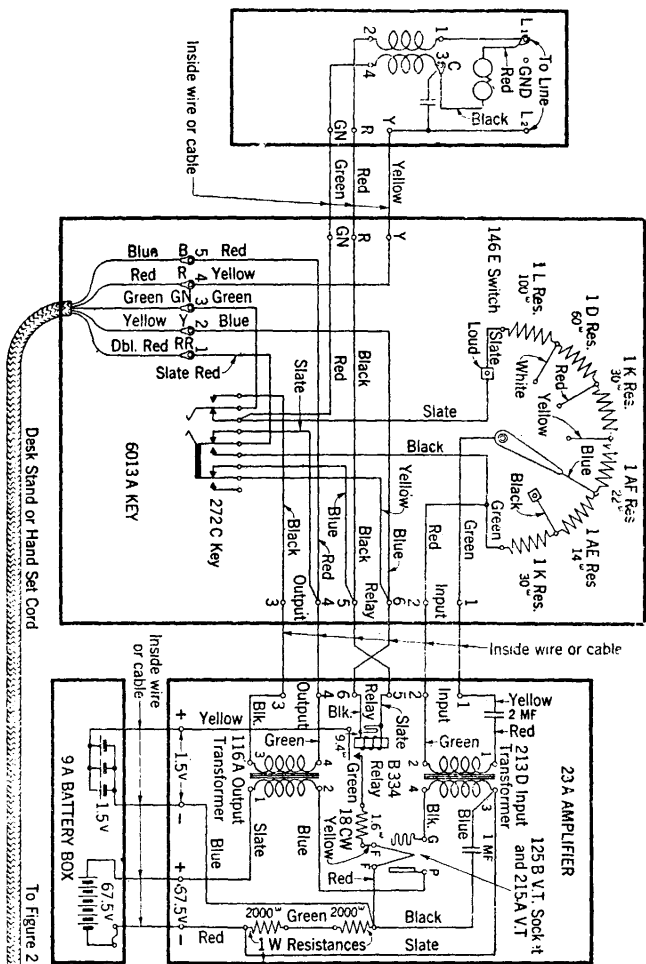
Red conductor on Y terminal

Yellow conductor on R terminal

Green conductor on GN terminal

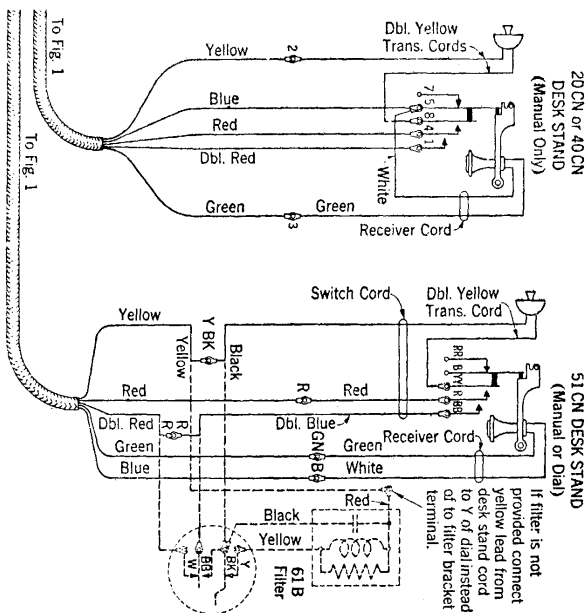
1.06 **P.B.X. Stations Equipped with Amplifier:** The supervisory relay of the amplifier adds 9.4 ohms to the normal loop resistance. It is therefore necessary wherever the combined resistance of a P.B.X. loop and this relay exceeds the limiting loop value, to provide a line relay at the P.B.X. in accordance with the usual practice. Cases requiring special consideration, as where long line equipment is necessary to obtain proper supervision, should be referred to the Engineering Department.

Fig. 1—Key Equipment 10A—Sidetone Equipment.



To Figure 2

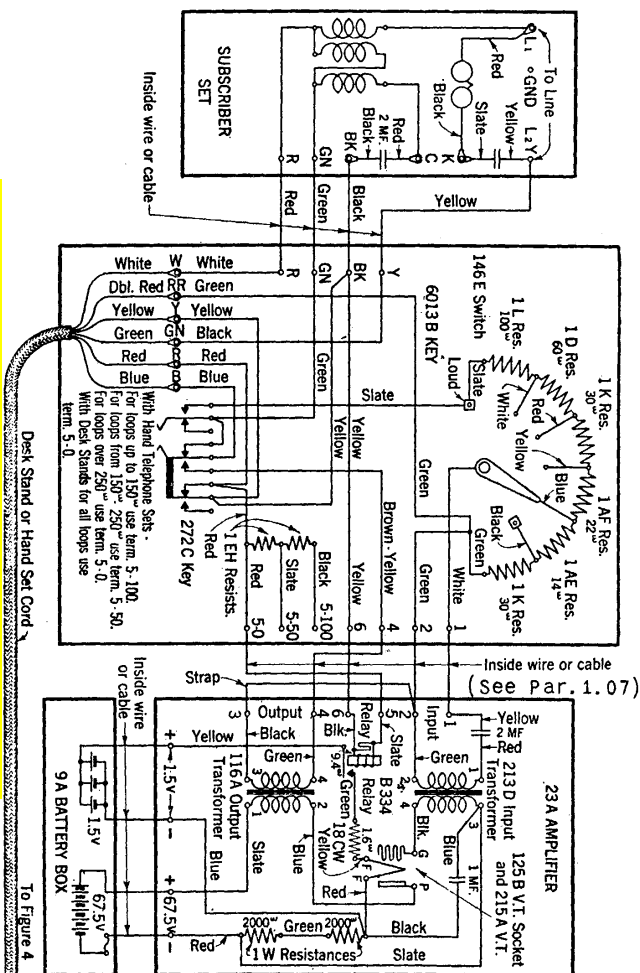
Fig. 2—Key Equipment 10A—Sidetone Equipment (Cont'd).



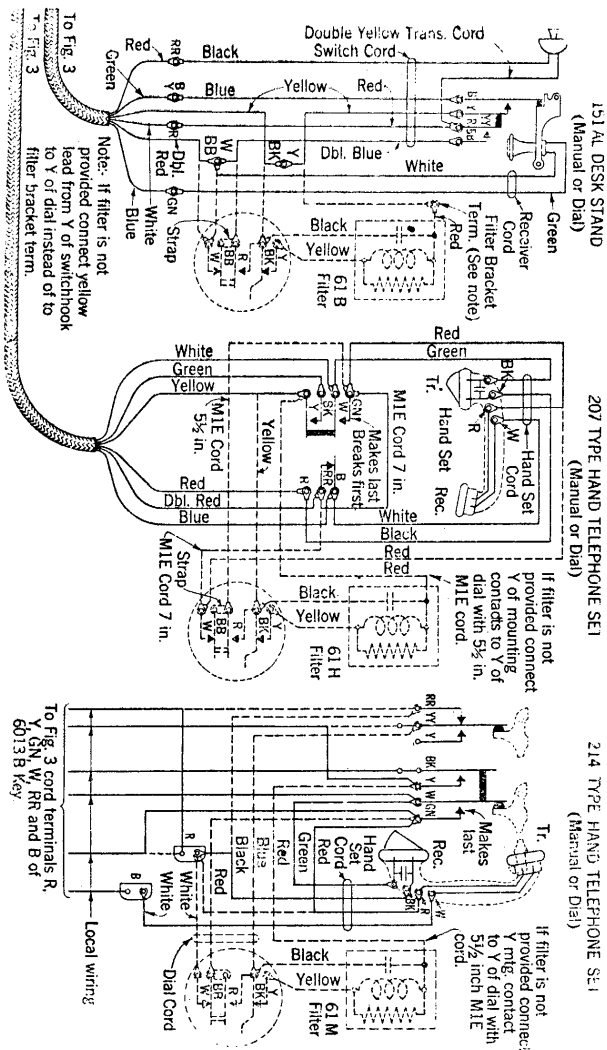
1.07 Anti-sidetone Connections (Figures 3 and 5):

When inside cable is used and the run between the Key and amplifier exceeds 25 feet, use one pair for the input and another pair for the output, omitting strap between amplifier terminals 2 and 3. In these cases, leads from amplifier terminals 3 and 4 (or 4 and 3) shall be terminated on terminals 2 and 4 of the Key.

Fig. 3—Key Equipment 10A—Anti-Sidetone Equipment.



To Figure 4



**KEY EQUIPMENTS 10A,
11A (RECEIVER
AMPLIFIER)
5.103 CONNECTIONS
—COMMON
BATTERY**

Note: 41Cu Desk Stand equipped with 626A Transmitter and 5 1/2 ft M2B Cord or 20A Transmitter Mounting equipped with 616A Transmitter and 6 ft. T2L Cord.

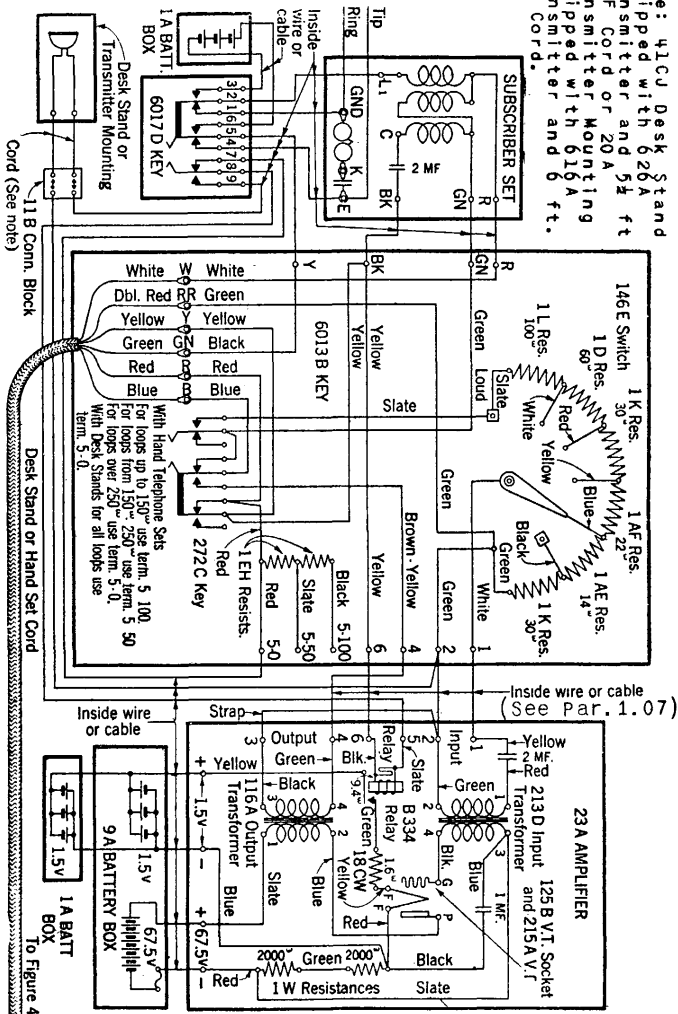
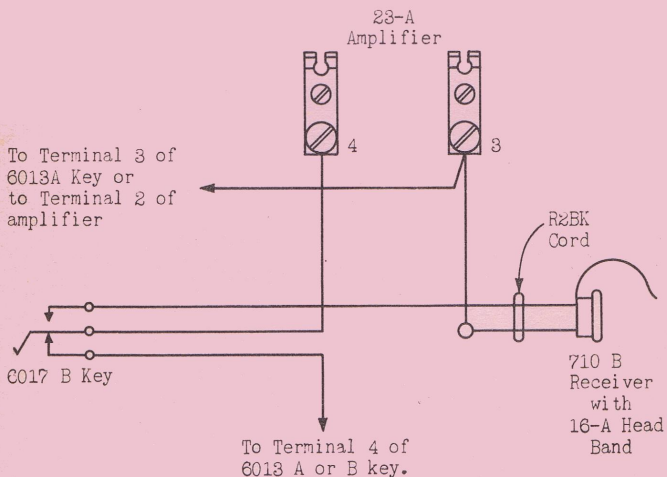


Fig. 5—Key Equipment 11A.

KEY EQUIPMENTS 10A AND 11A

BONE CONDUCTION RECEIVER CONNECTIONS

COMMON BATTERY



- NOTES: 1. Where regular receiver is not required, the 710 B receiver may be connected directly to the output terminals of the amplifier and the key omitted.
2. Use of desk stand is preferable to provide hanger for 710 B receiver when not in use.