SERVICE

1A KEY TELEPHONE SYSTEM TIE LINE AND CONTROL SERVICES

1. GENERAL

1.01 This section provides connection information for the various key telephone units that furnish tie line and control services for the 1A Key Telephone System. A schematic and connection figure is shown for each key telephone unit. Because of the many configurations of key telephone units possible, no attempt is made to show the various configurations; however, the key telephone units are grouped according to the services they provide.

- 1.02 This section is reissued to:
 - Reinstate 17B KTU and show 17C KTU MD.
 - Add 1C KTU which is MD.
 - Revise Fig. 2, 8, 10, and 14.

Note: A small quantity of 1C and 17C KTUs have been manufactured. They may be used as direct replacements for 1B and 17B KTUs except that only two 17C KTUs may be used in a 105-type apparatus box.

1.03 This issue of the section is based on the following drawings:

SD-69091-01—Key Telephone System No. 1A, Line and Signaling Circuit

SD-69419-01—Key Telephone System No. 1A, Incoming CO or PBX Line Make Busy Lamp and Key Circuit

SD-69105-01—Key Telephone System No. 1A. Private Line Circuit

SD-69140-01—Key Telephone System No. 1A. Automatic Exclusion Circuit

If this section is to be used with equipment or apparatus reflecting later issues of the drawings,

reference should be made to the SDs and CDs to determine the extent of the changes and the manner in which the section may be affected.

2. CONNECTION INDEX

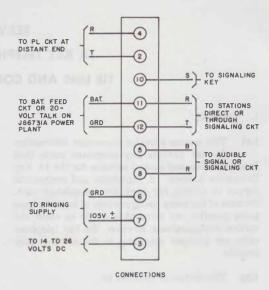
Tie Line Service

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- Fig. 3—2A and 12B Key Telephone Units, Battery Feed Circuit
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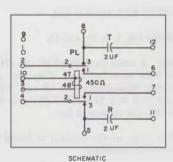
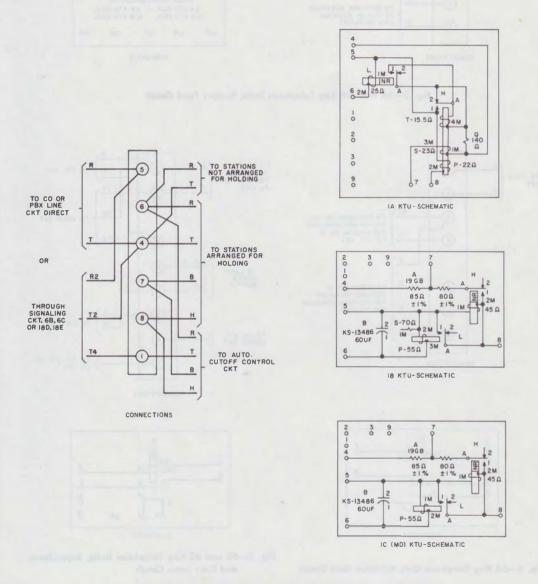
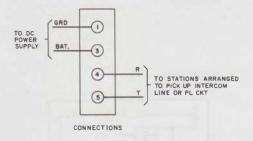


Fig. 1—7A Key Telephone Unit, Private Line Circuit



♦ Fig. 2—1A, 1B, and 1C (MD) Key Telephone Units, Hold Circuit ♠



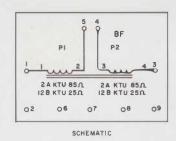
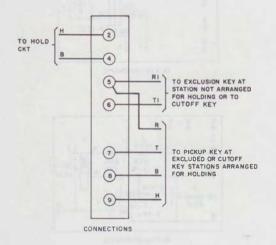
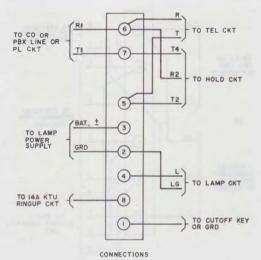


Fig. 3—2A and 12B Key Telephone Units, Battery Feed Circuit





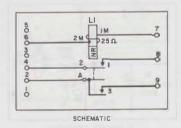
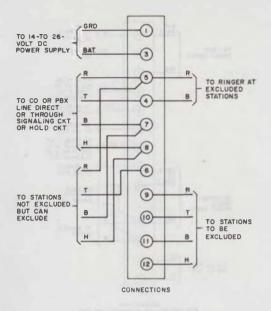
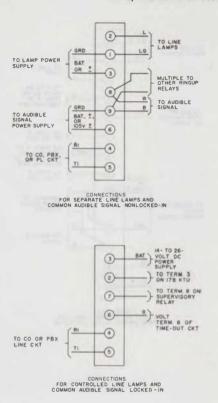


Fig. 4—5A Key Telephone Unit, Auxiliary Hold Circuit

Fig. 5—6B and 6C Key Telephone Units, Supervisory and Busy Lamp Circuit





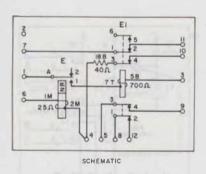


Fig. 6—10A Key Telephone Unit, Automatic Exclusion Circuit

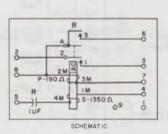
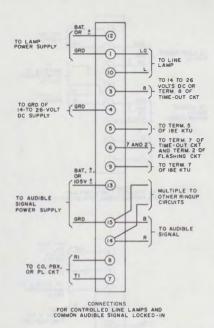
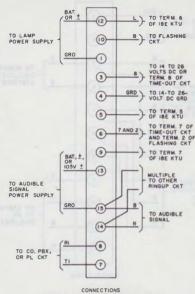
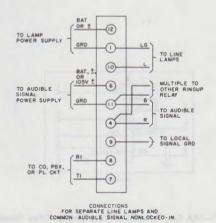


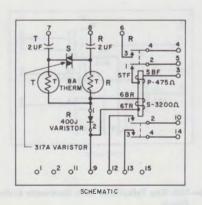
Fig. 7—14A Key Telephone Unit, Ringup Relay Circuit





CONNECTIONS
FOR CONTROLLED COMBINED LINE AND
BUSY LAMPS AND COMMON AUDIBLE SIGNAL





♦ Fig. 8—15D Key Telephone Unit, Ringup Relay Circuit (Dual Type) ♦

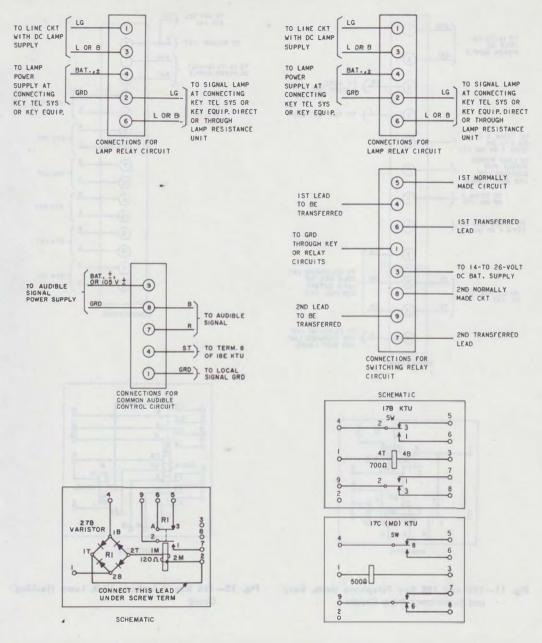
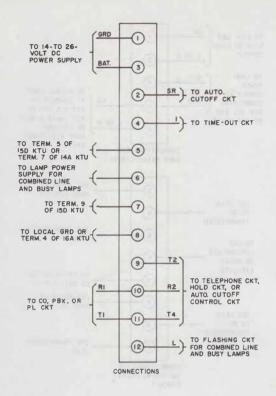
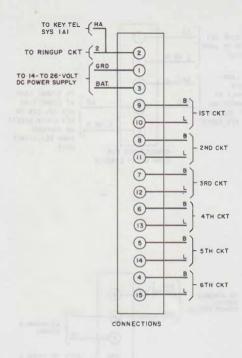


Fig. 9—16A Key Telephone Unit, Common Audible
Control and Lamp Relay Circuit

♦Fig. 10—17B and 17C (MD) Key Telephone Units, Switching Relay and Lamp Control Circuit ♦





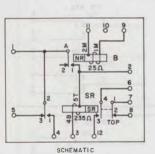


Fig. 11—18D and 18E Key Telephone Units, Busy and Supervisory Relay Circuits

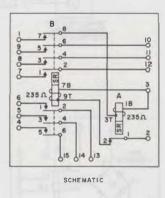
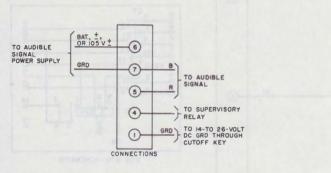
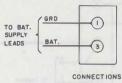
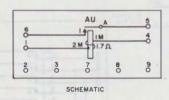


Fig. 12—19B Key Telephone Unit, Lamp Flashing Circuit







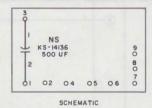
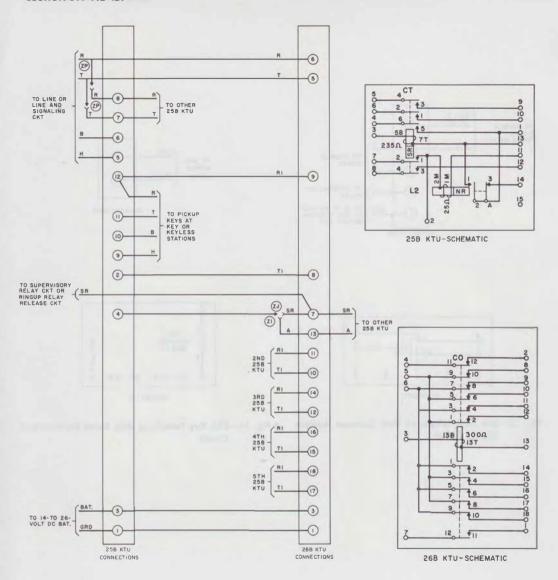


Fig. 13—20A Key Telephone Unit, Common Audible Fig. 14—23A Key Telephone Unit, Noise Suppression Circuit



- 1. ZP AND ZI WIRING FOR STATIONS WHICH CAN CUT OFF OTHER STATIONS.
- ZP AND ZJ WIRING FOR STATIONS WHICH CANNOT CUT OFF OTHER STATIONS, BUT CAN BE CUT OFF EXCEPT WHEN ON THE LINE.
- 3. ZJ WIRING FOR STATIONS WHICH CANNOT CUT OFF OTHER STATIONS, BUT CAN BE CUT OFF AT ANY TIME.

Fig. 15—25B (Automatic Cutoff Control Circuit) and 26B (Automatic Cutoff Circuit) Key Telephone Units Arranged for Automatic Cutoff of CO, PBX or Private Line Circuits

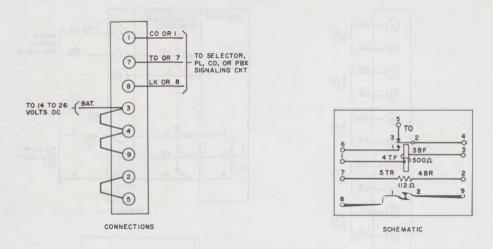


Fig. 16-30A Key Telephone Unit, Time-Out Circuit

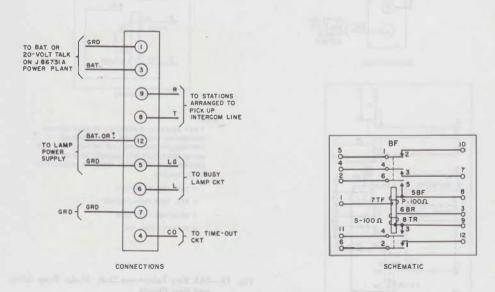
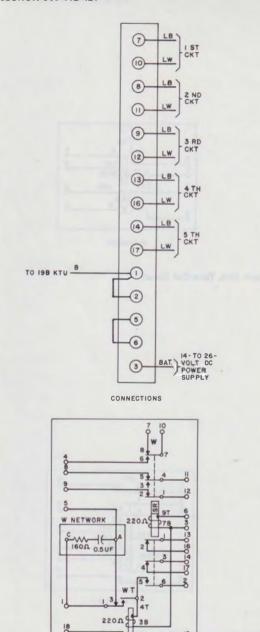


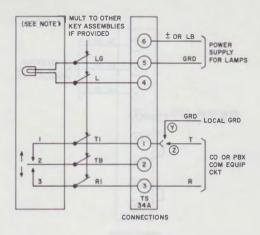
Fig. 17—31A Key Telephone Unit, Battery Feed Relay Circuit

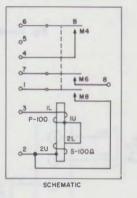


SCHEMATIC

Fig. 18—33A Key Telephone Unit, Lamp Wink Circuit

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NOTE:

A KEY ASSEMBLY IS REQUIRED AT EACH STATION ORIGINATING THIS CIRCUIT. KEY ASSEMBLIES CONTROLLING THE SAME LINE OR GROUP OF LINES MAY BE MULTIPLED. KEY ASSEMBLIES MUST BE ASSEMBLED IN THE FIELD. ORDERING INFORMATION IS AS FOLLOWS:

- . CAP, LAMP, 25 (GREEN)
- . KEY, 552M (NONLOCKING)
- . MOUNTING, JACK, 255A
- . SOCKET, LAMP, 47B

Fig. 19—34A Key Telephone Unit, Make Busy Lamp and Key Circuit