

GFELLER LINE CONCENTRATORS  
49-9-2, 49-11+1-2, 49-12-2  
AUXILIARY AND APPLIQUE CIRCUITS  
DC OPERATION

1. GENERAL

1.01 This appendix is issued to include the the necessary information on units converted to DC battery operation.

1.02 The following additional information and alteration of the main section is necessary for DC operation. The main section text is valid, as is, for AC operation.

1.03 The following paragraphs and figures of the main section are replaced:

1.03B	2B	2.05	Fig. 2
1.03H	2.04	2.06	

Delete Table A on page 4.

1.03 The items covered are:

B. Modification to Extend Signaling Range (49-9-2): This modification can be made on concentrators with serial numbers 2 through 389.

H. Replacement of Resistors RI, RII, and RIII (49-9-2): This modification is applicable to concentrators with serial numbers 2 through 709 and 751 through 889. It will prevent overheating of these resistors in units modified or equipped for extended signaling range but working on short loops.

2. METHOD

B. Modification to Extend Signaling Range - Serial No. 2 through 389.

2.04 These earlier concentrators were equipped with relays with 1000-Ohm coils shunted by 3- or 6- microfarad capacitors. Their signaling range, using exchange cable facilities, was about five miles. To increase the range of these concentrators to approximately 12 miles of exchange cable, proceed as follows:

2.05 On the RA through RF relays, substitute 200 ohm coils in the central office unit and 280-ohm coils in the subscriber unit. Replace the existing CRA through CRF capacitors in both units with 30-mfd electrolytic capacitors. Observe polarity and wire as shown on addendums to schematics S10460-4 and S10461-4 (Section 067-201-401).

2.06 Equip the armatures of the RA through RF relays with the proper residual discs and readjust the relays electrically. Disc dimensions and electrical requirements are given for each unit in the appendix to Section 067-201-701.

Fig. 2A replaces Fig. 2 on page 4 of the section. It shows the arrangement of terminal strip III on low serial number Gfeller units that have been modified for plus-and-minus battery operation. Table A gives obsolete information and should be disregarded.

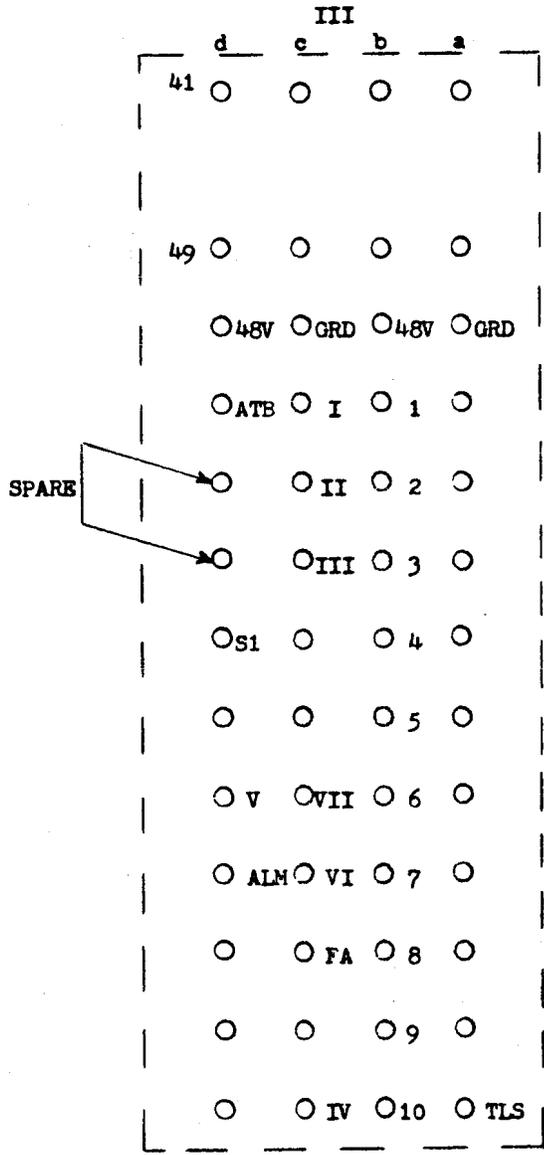


Fig. 2A