BELL SYSTEM PRACTICES Plant Series

REPLACING PAGE ADDENDUM Filing Instructions:

- 1. REMOVE FROM THE SECTION THE PAGES NUMBERED THE SAME AS THOSE ATTACHED TO THIS PINK SHEET.
- 2. INSERT THE ATTACHED PAGES INTO THE SECTION IN THEIR PLACE.
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ADDENDUM 518-610-401 Issue 1, July 1967 AT&TCo Standard

KEY TELEPHONE SYSTEMS STATION ARRANGEMENTS FOR 2- AND 4-WIRE PRIVATE LINE SERVICE CONNECTIONS

1. GENERAL

1.001 This addendum supplements Section 518-610-401, Issue 3. The attached page must be inserted in the section in accordance with the filing instruction above.

1.002 This addendum is issued to correct strapping of 248B KTU shown in Fig. 1.

Attached:

Page 3 dated July 1967, revised Page 4 dated July 1967, reissued

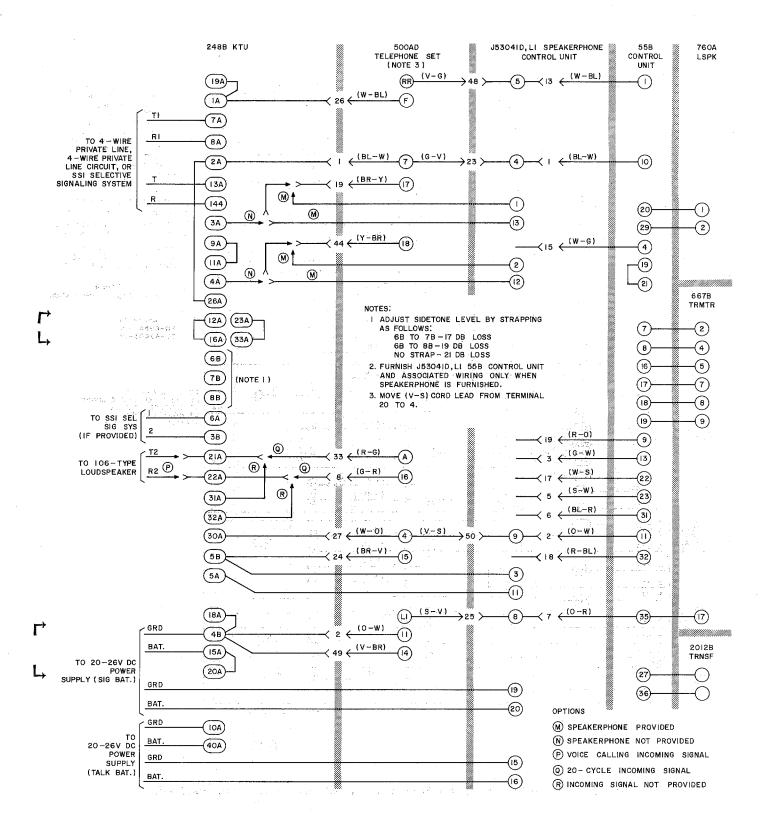


Fig. 1 — Connections for 4-Wire Service — Single Line Telephone Set

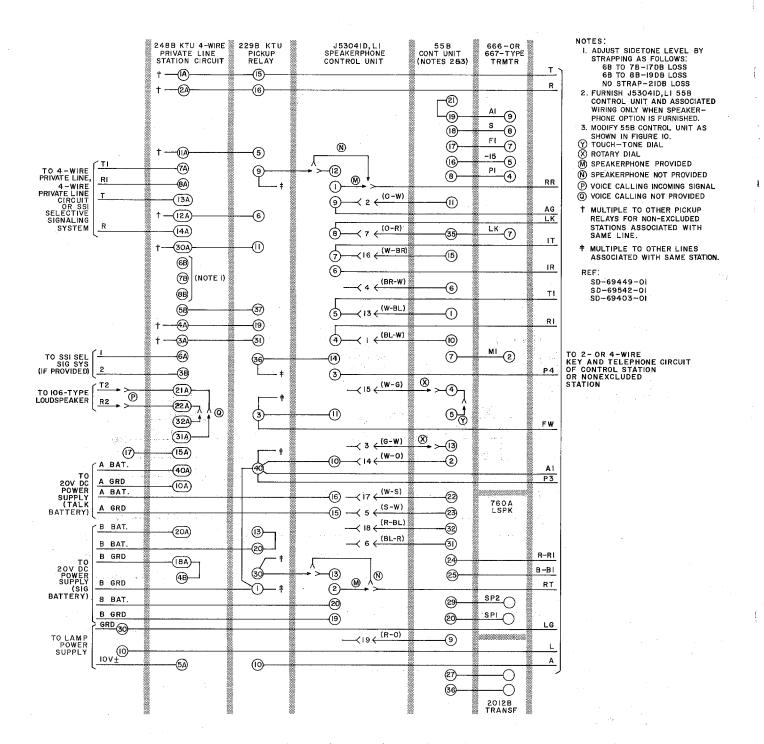


Fig. 2 — Connections for Control Station or Nonexcluded Station Using 248B KTU

KEY TELEPHONE SYSTEMS

STATION ARRANGEMENT FOR 2- AND 4-WIRE

PRIVATE LINE SERVICE

CONNECTIONS

1. GENERAL

- 1.01 This section is reissued to:
 - Show connections for the 500AD telephone set, to be used in single line station arrangements.
 - Show connections for the J53041D, L1 speakerphone control unit in place of the 261A KTU, none of which were manufactured and which is rated Manufacture Discontinued (MD).
- 1.02 Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

2. CONNECTIONS

- (a) Connection Index
 - Fig. 1 Connections for 4-Wire Service Single Line Telephone Set
 - Fig. 2 Connections for Control Station or Nonexcluded Station Using 248B KTU

- Fig. 3 Connections for Control Station or Nonexcluded Station Using 248A KTU
- Fig. 4 Connections for Excluded Stations
- Fig. 5 Connections for Line Transfer Circuit
- Fig. 6 Connections for Auxiliary Line Transfer Circuit
- Fig. 7 Incoming Signal Arrangements
- Fig. 8 Connections for 106B Loudspeaker Set
- Fig. 9 Connections to Provide Interchange of Busy Signals With Other Switching Systems
- Fig. 10 Modification of 55B Control Unit.
- Table A Fuse Requirements
- Table B 89-Type Plug-In Resistors for Use With 245A KTU
- (b) References

SD-69449-01

SD-69542-01

SD-69422-01

TABLE A FUSE REQUIREMENTS*

FUSE AMP	POTENTIAL	ONE PER
2	-24V Talk	Station line circuit (248-type)
2	-24V Signal	All pickup relay (229B KTU) and exclusion relay (229B) associated with same station.
2	-24V Signal	CA, CA1, or MS relay (227-type KTU)
2	-24V Signal	240B KTU or 244A KTU and associated 241A KTU

^{*} Fuse holder may be a 201-type KTU or equivalent.

TABLE B
89-TYPE PLUG-IN RESISTORS
FOR USE WITH 245A KTU*

RESISTOR	PAD LOSS
CODE	IN DB
89A 89E	0 1 2
89J 89N 89T	3 4
89AA	5
89AE	6
89AJ	7
89AN 89AT	8 9
89BA	10
89BC	11
89BE	12
89BG	13
89BJ	14
89BL	15
89BN	16
89BR	17
89BT	18
89BW	19
89CA	20

^{*} Resistors must be ordered separately, two per 245A KTU.

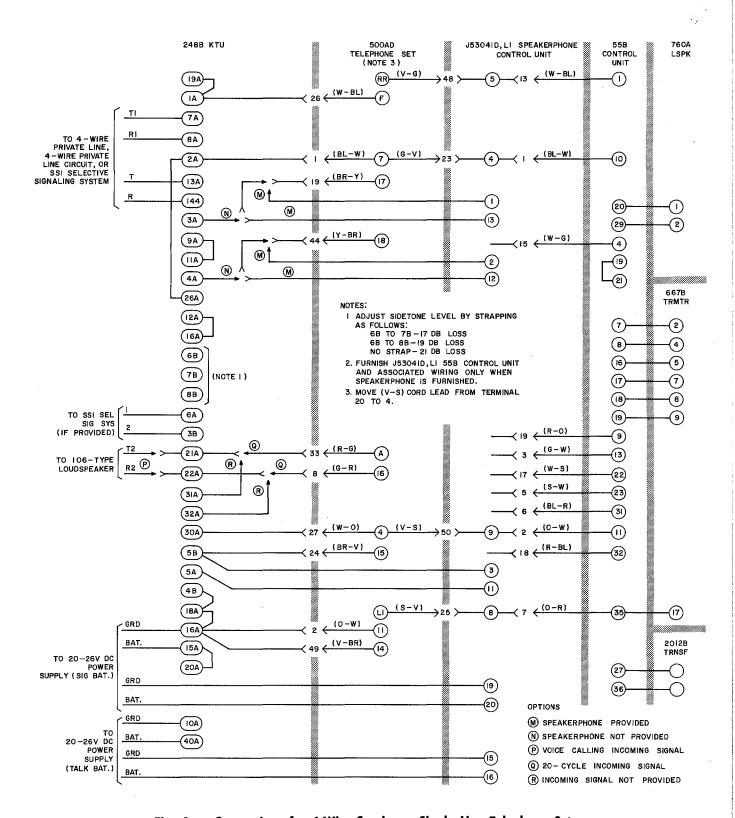


Fig. 1 — Connections for 4-Wire Service — Single Line Telephone Set

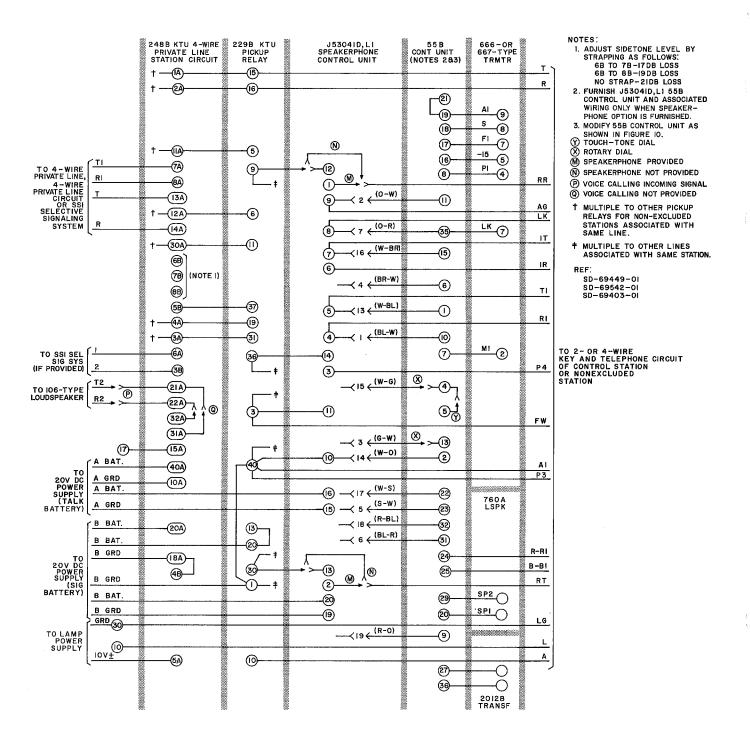
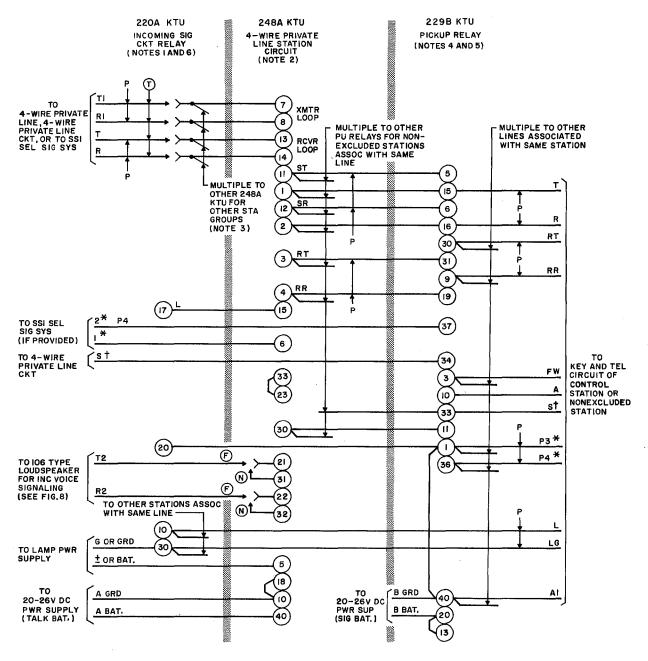


Fig. 2 — Connections for Control Station or Nonexcluded Station Using 248B KTU



- * PROVIDE THESE LEADS WHEN LINE CONNECTS TO SSI SEL SIG SYSTEM.
- † PROVIDE THESE LEADS WHEN MANUAL SIGNALING IS REQUIRED. NO LEADS IN THE TELEPHONE SET NEED TO BE CHANGED AS SIGNALING KEY UTILIZES AI GROUND. REF: SD-69449-01

OPTIONS:

- T 4-WIRE PRIVATE LINE USED WITHOUT LINE TRANSFER CIRCUIT.
- F VOICE CALLING PROVIDED.
- N VOICE CALLING NOT PROVIDED.

NOTES:

- I. PROVIDE ONE 220A KTU PER LINE.
- 2. PROVIDE ONE 248A KTU PER STATION GROUP.
- 3. PROVIDE INDIVIDUAL LEADS FOR EACH STATION GROUP WHEN SSI SEL SIG SYSTEM PRIVACY OR ON-PREMISE DIALING IS REQUIRED. WHEN CONNECTING DIRECTLY TO A 4-WIRE PRIVATE LINE. ONLY ONE STATION GROUP IS PERMITTED.
- 4. PROVIDE ONE PICKUP RELAY (2298 KTU) PER STATION.
- 5. ADDITIONAL CONNECTIONS SHOWN ON FIG. 4 WHEN THIS FIGURE IS USED AS A CONTROL STATION TO EXCLUDE OTHER STATIONS.
- 6. REFER TO FIG. 7 FOR INCOMING SIGNAL ARRANGEMENTS.

Fig. 3 — Connections for Control Station or Nonexcluded Station Using 248A KTU

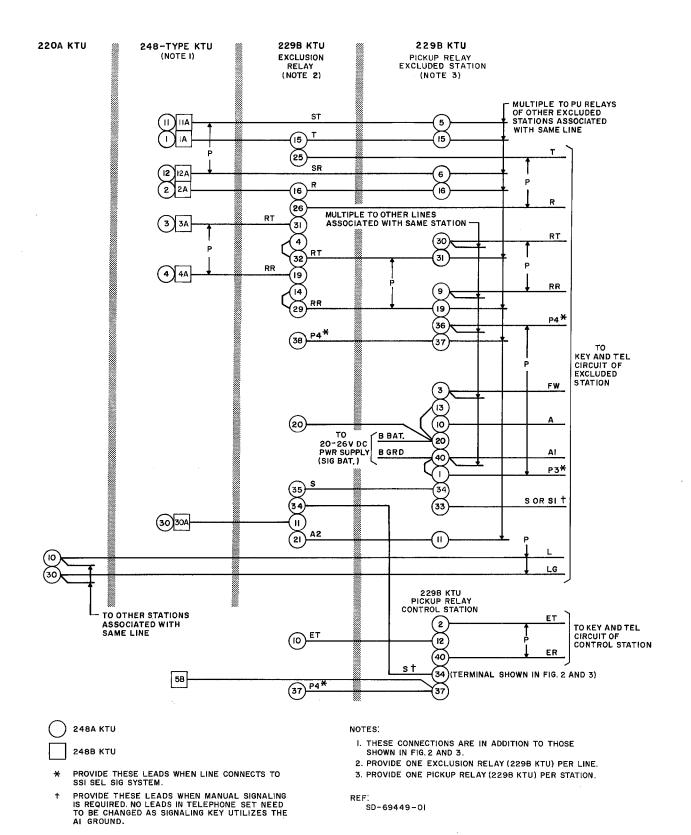
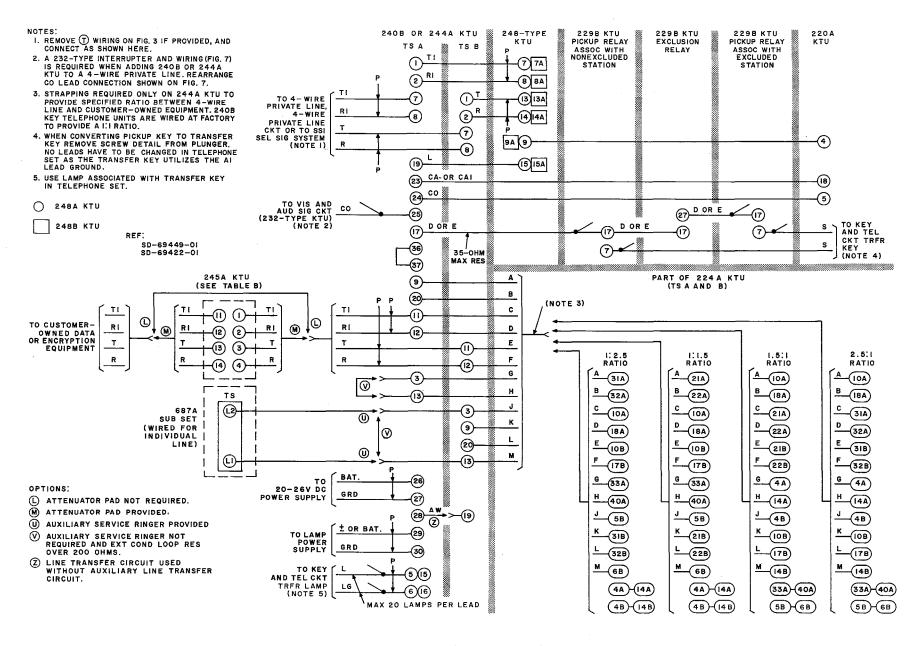


Fig. 4 — Connections for Excluded Stations



ig. 5 — Connections for Line Transfer Circuit

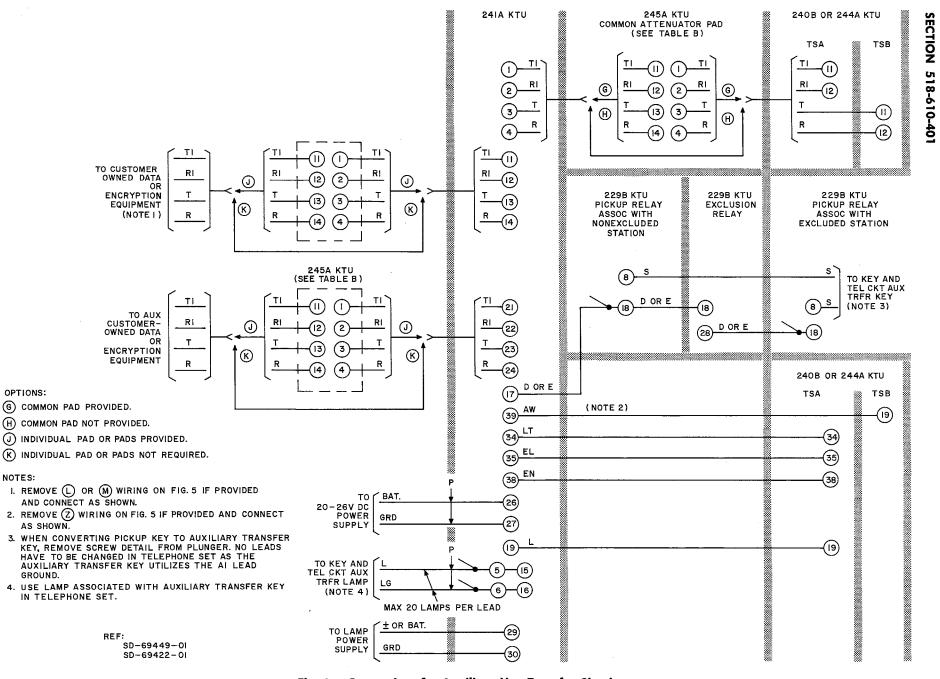


Fig. 6 — Connections for Auxiliary Line Transfer Circuit

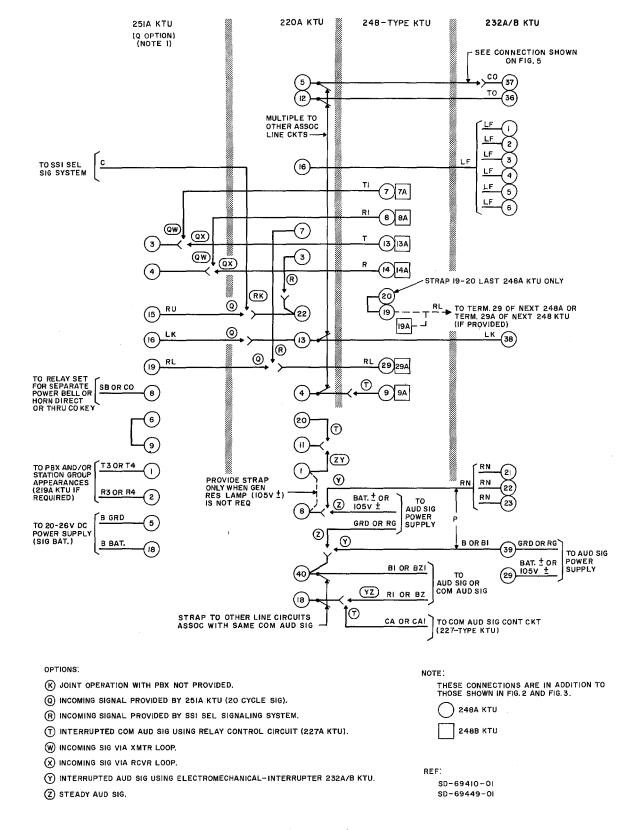


Fig. 7 — Incoming Signal Arrangements

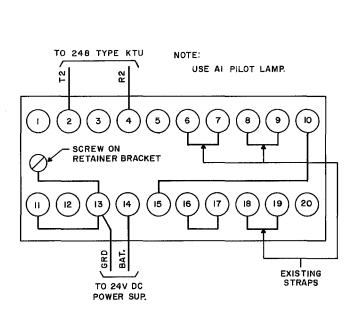


Fig. 8 — Connections for 106B Loudspeaker Set

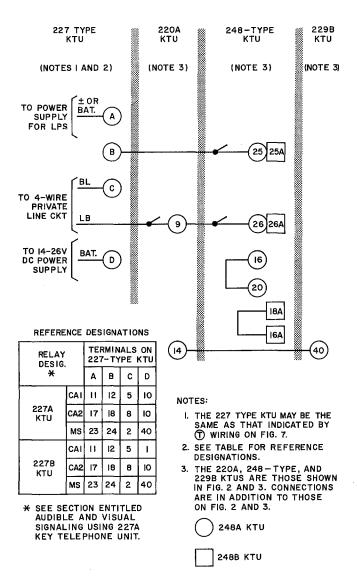
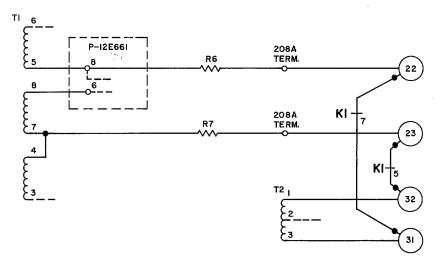


Fig. 9 — Connections to Provide Interchange of Busy Signals With Other Switching Systems



NOTES:

- I. MODIFY CONTROL UNIT AS FOLLOWS:
 - I. UNSOLDER R6 FROM TERMINAL 3 OF T2.
 - 2. UNSOLDER R7 FROM TERMINAL | OF T2
 - 3. INSTALL A 208A TERMINAL OR EQUIVALENT UNDER THE MOUNTING NUT OF TRANSFORMERS TI AND T2. TERMINALS SHOULD NOT INTERFERE WITH ADJACENT EQUIPMENT.
 - 4. SOLDER FREE END OF R6 TO ONE 208A TERMINAL AND FREE END OF R7 TO OTHER 208A TERMINAL.
 - 5. REMOVE FOUR SCREWS HOLDING TERMINAL BOARD TO EXPOSE CONNECTIONS ON REAR OF TERMINAL BOARD.
 - PLACE AND SOLDER FOUR STRAPS FROM TERMINAL BOARD AS FOLLOWS:
 - (A) TERMINAL 22 TO 208A TERMINAL ASSOCIATED WITH R6.
 - (B) TERMINAL 23 TO 208A TERMINAL ASSOCIATED WITH R7.
 - (C) TERMINAL 31 TO TERMINAL 3 OF T2. (D) TERMINAL 32 TO TERMINAL I OF T2.
 - REPLACE TERMINAL BOARD AND SCREWS. STENCIL COVER "MODIFIED PER SD-69487-01".
- 2. CONNECT TO J5304ID, LI SPEAKERPHONE CONTROL UNIT WITH CABLE SUPPLIED WITH J-SPEC. MOUNT UNITS AS CLOSE TOGETHER AS POSSIBLE, NOT EXCEEDING 4 FT., WITH 55B CONTROL UNIT TO RIGHT OF J5304ID, LI UNIT.

Fig. 10 — Modification of 55B Control Unit

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