

LAMP RESISTOR UNITS MOUNTED IN APPARATUS CABINET

TERMINATIONS

1. GENERAL

1.01 This section covers the connections for lamp resistance circuits when the resistor units are located in the apparatus cabinet. This includes strapping between lamp resistor units and line units and connections for terminating key and running cables on lamp resistor units. Connections for lamps in key telephone sets and indicators which do not require lamp resistor units are shown in the sections covering the respective features.

1.02 An index listing connection and miscellaneous tables is shown below.

2. ASSIGNMENT OF DIAL SELECTIVE INTERCOMMUNICATING LINE STATION NUMBERS

2.01 The connection tables in this section are based on the premise that dial selective intercommunicating line station numbers, 2 through 0, will be assigned to 1A1 System Stations, A through I, respectively.

3. KEY AND RUNNING CABLE

3.01 In certain instances it has been necessary to disassociate the tip and ring (mate and color) of a cable pair. As exemplified below, individual cable conductors are identified as shown:

	"C" Inside Wiring	"D" Inside Wiring
Ring or color of pair 31	O-W(R)	BL-W(R)
Tip or mate of pair 41	BK(BL)	Y(BL-W)

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LAMP RESISTOR EQUIPMENT REQUIRED

TYPE OF LINE	TYPE OF RESISTOR EQUIPMENT	TABLE NO.	PAGE NO.
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Dial Sel. Intercom Lines With Flashing Line Lamps	ED-91929-01, G5 Equip. Units	13.06	6

WIRING BETWEEN KEY TELEPHONE UNITS

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	Dial Sel. Intercom Line Unit (Without Flashing Line Lamps)	13.04	4
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STATION CABLE CONNECTIONS

TYPE OF CABLE	TYPE OF CKT.	TYPE OF KEY TEL. SET USED	TABLE NO.	PAGE NO.
Key	All Lines Except Dial Sel. Intercom Lines with Flashing Line Lamps	All	13.07	6
Running		All	13.09	15
Key	Dial Sel. Intercom Lines with Flashing Line Lamps	All	13.08	11
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TABLE 13.01

**CENTRAL OFFICE OR PRIVATE BRANCH EXCHANGE LINES
(202A, 202B, 212A K.T.U.), TIE LINES (203A, 204A K.T.U.), AND
STATION LINES (205A K.T.U.) — CONNECTIONS TO 22-TYPE
KEY TELEPHONE LAMP RESISTOR UNITS**

Select the Horizontal Line(s) Showing the Type of K.T.U. Used For Each CO, PBX, Tie, or Station Line in the System, and Run Straps on 22-type K.T.U. and Between 22-type K.T.U. and the Respective 202A, 202B, 203A, 204A, 205A, or 212A K.T.U. as Shown Below:

STA. DESIG.	TYPE OF K.T.U.	LEAD DESIG.	K.T.U. TERM. ✖	22-TYPE K.T.U. ★	
A through F	202A, 203A, 204A, or 205A ✖	L	17	1st K.T.U. TERM. ◆ 1, 3, and 4	
	202B ✖	L	4	1, 3, and 4	
	212A ✖	TERM. STRIP "A" (1st LINE)	L	4	1, 3, and 4
		TERM. STRIP "B" (2nd LINE)	L	4	1, 3, and 4
		TERM. STRIP "C" (3rd LINE)	L	4	1, 3, and 4
G through L	202A, 203A, 204A, or 205A ✖	L	17	2nd K.T.U. TERM. ◆ 1, 3, and 4	
	202B ✖	L	4	1, 3, and 4	
	212A ✖	TERM. STRIP "A" (1st LINE)	L	4	1, 3, and 4
		TERM. STRIP "B" (2nd LINE)	L	4	1, 3, and 4
		TERM. STRIP "C" (3rd LINE)	L	4	1, 3, and 4

Notes: ★ Provide 22-type K.T.U. as specified on Table 13.02. One 22-type K.T.U. is required for a maximum of six stations; two 22-type K.T.U. are required for seven or more stations.

◆ Associated with each line.

- ✖ 202A K.T.U.—CO or PBX line unit (single line)
- ✖ 202B K.T.U.—CO or PBX line unit (single line)
- 203A K.T.U.—Automatic tie line unit
- 204A K.T.U.—Ringdown tie line unit
- 205A K.T.U.—Station line circuit unit
- 212A K.T.U.—CO or PBX line unit (three lines).

Reference: SD-69203-0106, Fig. 13
SD-69203-0117, Fig. 51
SD-69203-0118, Fig. 52
SD-69203-0119, Fig. 53
SD-69203-0120, Fig. 54
SD-69203-01, Fig. 67
SD-69203-01, Fig. 68

LAMP, BATTERY SUPPLY, AND LAMP RESISTOR UNIT SPECIFICATION TABLE FOR 22-TYPE KEY TELEPHONE UNITS

TABLE 13.02

TYPE OF LAMP	BATTERY SUPPLY		TYPE OF K.T.U. TO PROVIDE FOR TABLES 13.01 THROUGH 13.04	
51A	LOCAL BATTERY 8 CELLS 14-20V		22F	(19 RK RES.) (210 Ω /210 Ω)
	BUILDING BATTERY	9 CELLS 16-22V	22G	(19 AH RES.) (240 Ω /240 Ω)
		10 CELLS 18-24V	22H	(19 PG RES.) (290 Ω /290 Ω)
		11 CELLS 20-26V	22J	(19 DS RES.) (350 Ω /350 Ω)
		12 or 13 CELLS 22-28V	22J	(19 DS RES.) (350 Ω /350 Ω)
	CO BATTERY	12 or 13 CELLS 22-28V	22J	(19 DS RES.) (350 Ω /350 Ω)
23 CELLS 47.5-50V REGULATED		22K	(19 BA RES.) (900 Ω /900 Ω)	
K2*	CO BATTERY	23 CELLS 47.5-50V REGULATED	22J	(19 DS RES.) (350 Ω /350 Ω)

Note: * When lamp battery supply is 47.5 to 50V dc and lamps in the set and lamps in indicators or key boxes are to be connected to the same line, 22J resistor K.T.U. are required for the K2 lamps in indicators or key boxes. 22K resistor K.T.U. are required for the 51A lamps in the set. Under such conditions, terminal 3, 4, or 1 of the 22J K.T.U. would be strapped to terminal 1 of the 22K K.T.U. (associated with whichever line is involved) the lamp lead, or leads, from indicators or key boxes would be connected to specific terminals on the 22J K.T.U. as follows:

OPTION	LAMP LEAD CONNECTIONS
IF TERM. 3 ON 22J K.T.U. IS STRAPPED TO TERM. 1 ON 22K K.T.U.	CONNECT LAMP LEAD TO TERM. 2 OR 5 ON 22J K.T.U.
IF TERM. 4 ON 22J K.T.U. IS STRAPPED TO TERM. 1 ON 22K K.T.U.	CONNECT LAMP LEAD TO TERM. 6 OR 7 ON 22J K.T.U.
IF TERM. 1 ON 22J K.T.U. IS STRAPPED TO TERM. 1 ON 22K K.T.U.	CONNECT LAMP LEAD TO TERM. 8 OR 9 ON 22J K.T.U.

Reference: SD-69199-0109
SD-69203-0106, Fig. 13
SD-69203-0110

TABLE 13.03

**INTERCOMMUNICATING LINE CIRCUIT (31A OR 211A K.T.U.)
— CONNECTIONS TO 22-TYPE KEY TELEPHONE LAMP RESIS-
TOR UNITS**

Select the Horizontal Line Showing the Type of K.T.U. Used for Each Intercommunicating Line in the System, and Run Straps on 22-type K.T.U. and Between 22-type K.T.U. and the Respective 31A or 211A K.T.U. as Shown Below:

STA. DESIG.	TYPE OF K.T.U. USED AS INTERCOM LINE UNIT	LEAD DESIG.	INTERCOM LINE UNIT TERM.	22-TYPE K.T.U. ★
A through F	31A 211A	L L	4 26	1st K.T.U. ✕ TERM. 1, 3, and 4 1, 3, and 4
G through L	31A 211A	L L	4 26	2nd K.T.U. ✕ TERM. 1, 3, and 4 1, 3, and 4

Notes: ★ Provide 22-type K.T.U. as specified on table 13.02.

✕ Associated with each line.

Reference: SD-69203-0103, Fig. 21

SD-69203-0106, Fig. 13

SD-69203-0121, Fig. 55

TABLE 13.04

**DIAL SELECTIVE INTERCOMMUNICATING LINE WITHOUT
FLASHING LINE LAMPS (207A K.T.U.) — CONNECTIONS TO
22-TYPE KEY TELEPHONE LAMP RESISTOR UNITS**

Run Straps on 22-type K.T.U. and Between 22-type K.T.U. and 207A K.T.U. as Shown Below:

LINE NO. IN SYS.	DIAL SEL. INTERCOM STA. NO.	LEAD DESIG.	22-TYPE K.T.U. ★	207A K.T.U. TERM.
1, 2, 3,	2 through 7	L	1st K.T.U. ✕ TERM. 1, 3, and 4	30
4, 5, or 6	8 through 0	L	2nd K.T.U. ✕ TERM. 1, 3, and 4	31

Notes: ★ Provide 22-type K.T.U. as specified on table 13.02.

✕ Associated with each line.

Reference: SD-69199-0106, Fig. 10

SD-69199-0112, Fig. 52

SD-69203-0106, Fig. 13

DIAL SELECTIVE INTERCOMMUNICATING LINE WITH FLASHING LINE LAMPS (208A K.T.U.) — CONNECTIONS TO LAMP RESISTOR EQUIPMENT UNITS

Run Straps Between ED-91929-01,G5 Equipment Units and 208A K.T.U. as Shown Below:

LINE NO. IN SYS.	DIAL SEL. INTERCOM STA. NO.	LEAD DESIG.	ED-91929-01,G5 EQUIP. UNIT ★	208A K.T.U.
1, 2, 3, 4, 5, or 6			1st UNIT ✕ TERM.	1st K.T.U. TERM.
	2	L	3	33
	3	L	5	34
	4	L	7	35
				2nd K.T.U. TERM.
	5	L	9	33
				2nd UNIT ✕ TERM.
	6	L	3	34
	7	L	5	35
				3rd K.T.U. TERM.
	8	L	7	33
	9	L	9	34
			3rd UNIT ✕ TERM.	
0	L	3	35	

Notes: ★ Provide resistance types as specified on table 13.06.

✕ Associated with each line.

Reference: SD-69199-0106, Fig. 11
SD-69199-0112, Fig. 52

TABLE 13.06

**LAMP, BATTERY SUPPLY, AND RESISTOR SPECIFICATION
TABLE FOR ED-91929-01,G5 EQUIPMENT UNITS**

TYPE OF LAMP	BATTERY SUPPLY		TYPE OF RESISTANCE TO PROVIDE FOR ED-91929-01,G5 EQUIP. UNITS
51A	LOCAL BATTERY 8 CELLS 14 - 20V		18 FD (210Ω)
	BUILDING BATTERY	9 CELLS 16 - 22V	18 AD (240Ω)
		10 CELLS 18 - 24V	18 DF (290Ω)
		11 CELLS 20 - 26V	18 AS (350Ω)
		12 or 13 CELLS 22 - 28V	18 AS (350Ω)
	CO BATTERY	12 or 13 CELLS 22 - 28V	18 AS (350Ω)
		23 CELLS 47.5 - 50V REGULATED	18 FB (900Ω)
K2	CO BATTERY 23 CELLS 47.5 - 50V REGULATED		18 AS (350Ω)

Reference: SD-69199-0109

TABLE 13.07

KEY CABLE LAMP LEAD CONNECTIONS TO 22-TYPE KEY TELEPHONE LAMP RESISTOR UNITS FOR ALL LINES EXCEPT DIAL SELECTIVE INTERCOMMUNICATING LINES WITH FLASHING LINE LAMPS (208A K.T.U.)

Make Connections As Shown Below:

LINE NO. IN SYS.	DIAL SEL. INTER-COM. STA. NO.	IAI SYSTEM STA. DESIG.	LEAD DESIG.	KEY CABLE			22-TYPE K.T.U.	TERM. ON LINE UNIT
				PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING		
					CONDUCTOR COLOR			
1	2	A	L LG	16	G-BR W	BL Y	1st K.T.U.* TERM. 2 —	★
	3	B	L LG	16	G-BR W	BL Y	5 —	★
	4	C	L LG	16	G-BR W	BL Y	6 —	★
	5	D	L LG	16	G-BR W	BL Y	7 —	★
	6	E	L LG	16	G-BR W	BL Y	8 —	★
	7	F	L LG	16	G-BR W	BL Y	9 —	★

TABLE 13.07
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	IAI SYSTEM STA. DESIG.	LEAD DESIG.	KEY CABLE		22-TYPE K.T.U.	TERM. ON LINE UNIT	
				PAIR NO.	"C" INSIDE WIRING			"D" INSIDE WIRING
					CONDUCTOR COLOR			
1	8	G	L LG	16	G-BR W	BL Y	2nd K.T.U.* TERM. 2 —	*
	9	H	L LG	16	G-BR W	BL Y	5 —	*
	0	I	L LG	16	G-BR W	BL Y	6 —	*
	-	J	L LG	16	G-BR W	BL Y	7 —	*
	-	K	L LG	16	G-BR W	BL Y	8 —	*
	-	L	L LG	16	G-BR W	BL Y	9 —	*
2	2	A	L LG	17	G-S W	O Y	1st K.T.U.* TERM. 2 —	*
	3	B	L LG	17	G-S W	O Y	5 —	*
	4	C	L LG	17	G-S W	O Y	6 —	*
	5	D	L LG	17	G-S W	O Y	7 —	*
	6	E	L LG	17	G-S W	O Y	8 —	*
	7	F	L LG	17	G-S W	O Y	9 —	*
	8	G	L LG	17	G-S W	O Y	2nd K.T.U.* TERM. 2 —	*
	9	H	L LG	17	G-S W	O Y	5 —	*
	0	I	L LG	17	G-S W	O Y	6 —	*
	-	J	L LG	17	G-S W	O Y	7 —	*
	-	K	L LG	17	G-S W	O Y	8 —	*
	-	L	L LG	17	G-S W	O Y	9 —	*

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TABLE 13.07
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	A SYSTEM STA. DESIG.	LEAD DESIG.	KEY CABLE			22-TYPE K.T.U.	TERM. ON LINE UNIT.
				PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING		
					CONDUCTOR COLOR			
3							1st K.T.U.* TERM.	
	2	A	L LG	18	BR-W W	G Y	2 —	★
	3	B	L LG	18	BR-W W	G Y	5 —	★
	4	C	L LG	18	BR-W W	G Y	6 —	★
	5	D	L LG	18	BR-W W	G Y	7 —	★
	6	E	L LG	18	BR-W W	G Y	8 —	★
	7	F	L LG	18	BR-W W	G Y	9 —	★
							2nd K.T.U.* TERM.	
	8	G	L LG	18	BR-W W	G Y	2 —	★
	9	H	L LG	18	BR-W W	G Y	5 —	★
	0	I	L LG	18	BR-W W	G Y	6 —	★
	-	J	L LG	18	BR-W W	G Y	7 —	★
	-	K	L LG	18	BR-W W	G Y	8 —	★
	-	L	L LG	18	BR-W W	G Y	9 —	★
4							1st K.T.U.* TERM.	
	2	A	L LG	19	BR-S W	BR Y	2 —	★
	3	B	L LG	19	BR-S W	BR Y	5 —	★
	4	C	L LG	19	BR-S W	BR Y	6 —	★
	5	D	L LG	19	BR-S W	BR Y	7 —	★
	6	E	L LG	19	BR-S W	BR Y	8 —	★
	7	F	L LG	19	BR-S W	BR Y	9 —	★

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TABLE 13.07
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	IAI SYSTEM STA. DESIG.	LEAD DESIG.	KEY CABLE			22-TYPE K.T.U.	TERM. ON LINE UNIT
				PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING		
					CONDUCTOR COLOR			
4							2nd K.T.U.* TERM. 2	
	8	G	L LG	19	BR-S W	BR Y	—	*
	9	H	L LG	19	BR-S W	BR Y	5	*
	0	I	L LG	19	BR-S W	BR Y	6	*
	-	J	L LG	19	BR-S W	BR Y	7	*
	-	K	L LG	19	BR-S W	BR Y	8	*
-	L	L LG	19	BR-S W	BR Y	9	*	
5							1st K.T.U.* TERM. 2	
	2	A	L LG	20	S-W W	S Y	—	*
	3	B	L LG	20	S-W W	S Y	5	*
	4	C	L LG	20	S-W W	S Y	6	*
	5	D	L LG	20	S-W W	S Y	7	*
	6	E	L LG	20	S-W W	S Y	8	*
	7	F	L LG	20	S-W W	S Y	9	*
							2nd K.T.U.* TERM. 2	
	8	G	L LG	20	S-W W	S Y	—	*
	9	H	L LG	20	S-W W	S Y	5	*
	0	I	L LG	20	S-W W	S Y	6	*
	-	J	L LG	20	S-W W	S Y	7	*
	-	K	L LG	20	S-W W	S Y	8	*
	-	L	L LG	20	S-W W	S Y	9	*

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TABLE 13.07
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	IAI SYSTEM STA. DESIG.	LEAD DESIG.	KEY CABLE			22-TYPE K.T.U.	TERM. ON LINE UNIT
				PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING		
					CONDUCTOR COLOR			
6♦	2	A	L LG	15	G-W W	S BK	1st K.T.U.* TERM. 2 —	★
	3	B	L LG	15	G-W W	S BK	5 —	★
	4	C	L LG	15	G-W W	S BK	6 —	★
	5	D	L LG	15	G-W W	S BK	7 —	★
	6	E	L LG	15	G-W W	S BK	8 —	★
	7	F	L LG	15	G-W W	S BK	9 —	★
	8	G	L LG	15	G-W W	S BK	2nd K.T.U.* TERM. 2 —	★
	9	H	L LG	15	G-W W	S BK	5 —	★
	0	I	L LG	15	G-W W	S BK	6 —	★
	-	J	L LG	15	G-W W	S BK	7 —	★
	-	K	L LG	15	G-W W	S BK	8 —	★
	-	L	L LG	15	G-W W	S BK	9 —	★

Notes: ★ Terminal 19, 20, 29, or 30 for 202A, 203A, 204A, and 205A K.T.U.

Terminal 5, 15, or 25 for 202B K.T.U.

Terminal 5, 15, or 25 on blocks "A," "B," and "C" for 1st, 2nd, and 3rd lines, respectively.

Terminal 5 for 31A K.T.U.

Terminal 27 or 29 for 211A K.T.U.

Terminal 32 or 33 for 207A K.T.U.

✱ Associated with each line.

♦ For 565A key telephone sets only.

Reference: SD-69199-0112, Fig. 52
SD-69203-0103, Fig. 21
SD-69203-0106, Fig. 13
SD-69203-0117, Fig. 51
SD-69203-0118, Fig. 52

SD-69203-0119, Fig. 53
SD-69203-0120, Fig. 54
SD-69203-0121, Fig. 55
SD-69203-01, Fig. 67
SD-69203-01, Fig. 68

**KEY CABLE LAMP LEAD CONNECTIONS TO ED-91929-01, G5
LAMP RESISTOR EQUIPMENT UNITS FOR DIAL SELECTIVE
INTERCOMMUNICATING LINES WITH FLASHING LINE LAMPS
(208A K.T.U.)**

TABLE 13.08

Make Connections as Shown Below:

LINE NO. IN SYS.	DIAL SEL. INTER- COM STA. NO.	LEAD DESIG.	KEY CABLE			ED-91929- 01, G5 EQUIP. UNIT	208A K.T.U.
			PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING		
				CONDUCTOR COLOR			
1	2	L LG	16	G-BR W	BL Y	1st UNIT TERM.* 2 —	1st UNIT TERM. — 30
	3	L LG	16	G-BR W	BL Y	4 —	— 31
	4	L LG	16	G-BR W	BL Y	6 —	— 32
	5	L LG	16	G-BR W	BL Y	8 —	2nd UNIT TERM. — 30
	6	L LG	16	G-BR W	BL Y	2nd UNIT TERM.* 2 —	— 31
	7	L LG	16	G-BR W	BL Y	4 —	— 32
	8	L LG	16	G-BR W	BL Y	6 —	3rd UNIT TERM. — 30
	9	L LG	16	G-BR W	BL Y	8 —	— 31
	0	L LG	16	G-BR W	BL Y	3rd UNIT TERM.* 2 —	— 32
2	2	L LG	17	G-S W	O Y	1st UNIT TERM.* 2 —	1st UNIT TERM. — 30
	3	L LG	17	G-S W	O Y	4 —	— 31
	4	L LG	17	G-S W	O Y	6 —	— 32
	5	L LG	17	G-S W	O Y	8 —	2nd UNIT TERM. — 30

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TABLE 13.08
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	LEAD DESIG.	KEY CABLE		ED-91929-01,G5 EQUIP. UNIT	208A K.T.U.	
			PAIR NO.	"C" INSIDE WIRING			"D" INSIDE WIRING
				CONDUCTOR COLOR			
2	6	L LG	17	G-S W	O Y	2nd UNIT TERM.* 2 —	2nd UNIT TERM. — 31
	7	L LG	17	G-S W	O Y	4 —	— 32
	8	L LG	17	G-S W	O Y	6 —	3rd UNIT TERM. — 30
	9	L LG	17	G-S W	O Y	8 —	— 31
	0	L LG	17	G-S W	O Y	3rd UNIT TERM.* 2 —	— 32
	3	2	L LG	18	BR-W W	G Y	1st UNIT TERM.* 2 —
3		L LG	18	BR-W W	G Y	4 —	— 31
4		L LG	18	BR-W W	G Y	6 —	— 32
5		L LG	18	BR-W W	G Y	8 —	2nd UNIT TERM. — 30
6		L LG	18	BR-W W	G Y	2nd UNIT TERM.* 2 —	— 31
7		L LG	18	BR-W W	G Y	4 —	— 32
8		L LG	18	BR-W W	G Y	6 —	3rd UNIT TERM. — 30
9		L LG	18	BR-W W	G Y	8 —	— 31
0		L LG	18	BR-W W	G Y	3rd UNIT TERM.* 2 —	— 32

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TABLE 13.08
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	LEAD DESIG.	KEY CABLE			ED-91929-01,G5 EQUIP. UNIT	208A K.T.U.
			PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING		
				CONDUCTOR COLOR			
4	2	L LG	19	BR-S W	BR Y	1st UNIT TERM.* 2 —	1st UNIT TERM. — 30
	3	L LG	19	BR-S W	BR Y	4 —	— 31
	4	L LG	19	BR-S W	BR Y	6 —	— 32
	5	L LG	19	BR-S W	BR Y	8 —	2nd UNIT TERM. — 30
	6	L LG	19	BR-S W	BR Y	2nd UNIT TERM.* 2 —	— 31
	7	L LG	19	BR-S W	BR Y	4 —	— 32
	8	L LG	19	BR-S W	BR Y	6 —	3rd UNIT TERM. — 30
	9	L LG	19	BR-S W	BR Y	8 —	— 31
	0	L LG	19	BR-S W	BR Y	3rd UNIT TERM.* 2 —	— 32
	5	2	L LG	20	S-W W	S Y	1st UNIT TERM.* 2 —
3		L LG	20	S-W W	S Y	4 —	— 31
4		L LG	20	S-W W	S Y	6 —	— 32
5		L LG	20	S-W W	S Y	8 —	2nd UNIT TERM. — 30

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TABLE 13.08
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	LEAD DESIG.	KEY CABLE		ED-91929-01, G5 EQUIP. UNIT	208A K.T.U.	
			PAIR NO.	"C" INSIDE WIRING			"D" INSIDE WIRING
				CONDUCTOR COLOR			
5	6	L LG	20	S-W W	S Y	2nd UNIT TERM.* 2 —	2nd UNIT TERM. — 31
	7	L LG	20	S-W W	S Y	4 —	— 32
	8	L LG	20	S-W W	S Y	6 —	3rd UNIT TERM. — 30
	9	L LG	20	S-W W	S Y	8 —	— 31
	0	L LG	20	S-W W	S Y	3rd UNIT TERM.* 2 —	— 32
	6*	2	L LG	15	G-W W	S BK	1st UNIT TERM.* 2 —
3		L LG	15	G-W W	S BK	4 —	— 31
4		L LG	15	G-W W	S BK	6 —	— 32
5		L LG	15	G-W W	S BK	8 —	2nd UNIT TERM. — 30
6		L LG	15	G-W W	S BK	2nd UNIT TERM.* 2 —	— 31
7		L LG	15	G-W W	S BK	4 —	— 32
8		L LG	15	G-W W	S BK	6 —	3rd UNIT TERM. — 30
9		L LG	15	G-W W	S BK	8 —	— 31
0		L LG	15	G-W W	S BK	3rd UNIT TERM.* 2 —	— 32

Notes: * Associated with each line.

* For 565A telephone sets only.

Reference: SD-69199-0106, Fig. 11 SD-69199-0113, Fig. 53

**RUNNING CABLE LAMP LEAD CONNECTIONS ON 22-TYPE
KEY TELEPHONE LAMP RESISTOR UNITS FOR ALL LINES
EXCEPT DIAL SELECTIVE INTERCOMMUNICATING LINES
WITH FLASHING LINE LAMPS (208A K.T.U.)**

TABLE 13.09

Make Connections as Shown Below:

LINE NO. IN SYS.	DIAL SEL. INTER- COM STA. NO.	IAI SYSTEM STA. DESIG.	LEAD DESIG. ★	RUNNING CABLE			22-TYPE K.T.U.
				PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
					CONDUCTOR COLOR		
1	2 3	A B	L L	27	BL-O R	O-W W	1st K.T.U. TERM. ✕ 2 5
	4 5	C D	L L		28	BL-G R	G-W W
	6 7	E F	L L	29		BL-BR R	BR-W W
	8 9	G H	L L		30	BL-S R	S-W W
	0 -	I J	L L	31		O-W R	BL-W R
	- -	K L	L L		32	O-G R	O-W R
	2	2 3	A B	L L		33	O-BR R
4 5		C D	L L	34	O-S R		BR-W R
6 7		E F	L L		35	G-W R	S-W R
8 9		G H	L L	36		G-BR R	BL-W BK
0 -		I J	L L		37	G-S R	O-W BK
- -		K L	L L	38		BR-W R	G-W BK

(Continued on Next Page)

TABLE 13.09
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	IAI SYSTEM STA. DESIG.	LEAD DESIG. ★	RUNNING CABLE			22-TYPE K.T.U.
				PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
					CONDUCTOR COLOR		
3	2	A	L	39	BR-S	BR-W	1st K.T.U. TERM. ✕ 2 5
	3	B	L		R	BK	
	4	C	L	40	S-W	S-W	6 7
	5	D	L		R	BK	
	6	E	L	41	BL	BL-W	8 9
	7	F	L		BK	Y	
	8	G	L	42	O	O-W	2nd K.T.U. TERM. ✕ 2 5
9	H	L	BK		Y		
0	I	L	43	G	G-W	6 7	
-	J	L		BK	Y		
-	K	L	44	BR	BR-W	8 9	
-	L	L		BK	Y		
4	2	A	L	45	S	S-W	1st K.T.U. TERM. ✕ 2 5
	3	B	L		BK	Y	
	4	C	L	46	BL-W	BL-W	6 7
	5	D	L		BK	V	
	6	E	L	47	BL-O	O-W	8 9
	7	F	L		BK	V	
	8	G	L	48	BL-G	G-W	2nd K.T.U. TERM. ✕ 2 5
9	H	L	BK		V		
0	I	L	49	BL-BR	BR-W	6 7	
-	J	L		BK	V		
-	K	L	50	BL-S	S-W	8 9	
-	L	L		BK	V		

(Continued on Next Page)

TABLE 13.09
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	IAI SYSTEM STA. DESIG.	LEAD DESIG. ★	RUNNING CABLE			22-TYPE K.T.U.	
				PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING		
					CONDUCTOR COLOR			
5	2	A	L	51	O-W	BL-R	1st K.T.U. TERM. ✖ 2	
	3	B	L		BK	W		5
	4	C	L	52	O-G	O-R	6	
	5	D	L		BK	W		7
	6	E	L	53	O-BR	G-R	8	
	7	F	L		BK	W		9
	5	8	G	L	54	O-S	BR-R	2nd K.T.U. TERM. ✖ 2
		9	H	L		BK	W	
		0	I	L	55	G-W	S-R	6
		-	J	L		BK	W	
		-	K	L	56	G-BR	BL-R	8
		-	L	L		BK	R	
6	2	A	L	57	G-S	O-R	1st K.T.U. TERM. ✖ 2	
	3	B	L		BK	R		5
	4	C	L	58	BR-W	G-R	6	
	5	D	L		BK	R		7
	6	E	L	59	BR-S	BR-R	8	
	7	F	L		BK	R		9
	6	8	G	L	60	S-W	S-R	2nd K.T.U. TERM. ✖ 2
		9	H	L		BK	R	
		0	I	L	61	BL	BL-R	6
		-	J	L		R-W	BK	
		-	K	L	62	O	O-R	8
	-	L	L	R-W		BK	9	

Notes: ★ Pairs are not provided for "LG" leads since the regularly assigned "LG" leads (mate conductors of pairs 16, 17, 18, 19, 20, and 24 or 15) are used for these conductors.

✖ Associated with each line.

Reference: SD-69199-0106, Fig. 11
SD-69203-0106, Fig. 13

TABLE 13.10

RUNNING CABLE LAMP LEAD CONNECTIONS TO ED-91929-01, G5 LAMP RESISTOR EQUIPMENT UNITS FOR DIAL SELECTIVE INTERCOMMUNICATING LINES WITH FLASHING LINE LAMPS (208A K.T.U.)

Make Connections as Shown Below:

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	LEAD DESIG. ★	RUNNING CABLE			ED-91929-01, G5 EQUIP. UNIT
			PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
				CONDUCTOR COLOR		
1	2 3	L L	27	BL-O R	O-W W	1st UNIT TERM. ✱ 2 4
	4 5	L L	28	BL-G R	G-W W	6 8
	6 7	L L	29	BL-BR R	BR-W W	2nd UNIT TERM. ✱ 2 4
	8 9	L L	30	BL-S R	S-W W	6 8
	0	L	31	O-W (R)	BL-W (R)	3rd UNIT TERM. ✱ 2
2	2 3	L L	33	O-BR R	G-W R	1st UNIT TERM. ✱ 2 4
	4 5	L L	34	O-S R	BR-W R	6 8
	6 7	L L	35	G-W R	S-W R	2nd UNIT TERM. ✱ 2 4
	8 9	L L	36	G-BR R	BL-W BK	6 8
	0	L	37	G-S (R)	O-W (BK)	3rd UNIT TERM. ✱ 2

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TABLE 13.10
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	LEAD DESIG. ★	RUNNING CABLE			ED-91929-01,G5 EQUIP. UNIT
			PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
				CONDUCTOR COLOR		
3	2 3	L L	39	BR-S R	BR-W BK	1st UNIT TERM. ✱ 2 4
	4 5	L L		40	S-W R	S-W BK
	6 7	L L	41		BL BK	BL-W Y
	8 9	L L		42	O BK	O-W Y
	0	L	43		G (BK)	G-W (Y)
	4	2 3		L L	45	S BK
4 5		L L	46	BL-W BK		BL-W V
6 7		L L		47	BL-O BK	O-W V
8 9		L L	48		BL-G BK	G-W V
0		L		49	BL-BR (BK)	BR-W (V)

(Continued on Next Page)

TABLE 13.10
(Continued)

LINE NO. IN SYS.	DIAL SEL. INTER-COM STA. NO.	LEAD DESIG. ★	RUNNING CABLE			ED-91929-01,G5 EQUIP. UNIT
			PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
				CONDUCTOR COLOR		
5	2 3	L L	51	O-W BK	BL-R W	1st UNIT TERM. ✖ 2 4
	4 5	L L	52	O-G BK	O-R W	6 8 2nd UNIT TERM. ✖
	6 7	L L	53	O-BR BK	G-R W	2 4
	8 9	L L	54	O-S BK	BR-R W	6 8 3rd UNIT TERM. ✖
	0	L	55	G-W (BK)	S-R (W)	2
6	2 3	L L	57	G-S BK	O-R R	1st UNIT TERM. ✖ 2 4
	4 5	L L	58	BR-W BK	G-R R	6 8 2nd UNIT TERM. ✖
	6 7	L L	59	BR-S BK	BR-R R	2 4
	8 9	L L	60	S-W BK	S-R R	6 8 3rd UNIT TERM. ✖
	0	L	61	BL (R-W)	BL-R (BK)	2

Notes: ★ Pairs are not provided for "LG" leads since the regularly assigned "LG" leads (mate conductors of pairs 16, 17, 18, 19, 20, and 24 or 15) are used for these conductors.

✖ Associated with each line.

Reference: SD-69199-0106, Fig. 11