

SERVICE

1A1 KEY TELEPHONE SYSTEM

200F, G, AND K PACKAGED KEY TELEPHONE UNITS

1. GENERAL

1.01 This section provides connections for the 200F (MD), 200G (MD) and 200K (MD) type Key Telephone Units.

1.02 Information in this section was formerly contained in Sections 518-210-400, 518-210-401, and 518-210-403, respectively, which are hereby canceled.

1.03 Refer to Division 518, sections entitled: Reference, 1A1, Packaged Key Telephone Units, Identification, and Reference, 1A1, Key Telephone Units, for identification information and functional schematics of the various KTUs.

2. CONNECTIONS

2.01 When 10 volts ac is used for station lamps, the KS-15900, List 1 interrupter may also be operated from the same source. The interrupter

motor load is approximately 300 milliamperes. This is equivalent to about eight 51A lamps.

2.02 A J86731D, List 1 power plant is provided in the 200K-type key telephone unit to furnish 10-volt ac power.

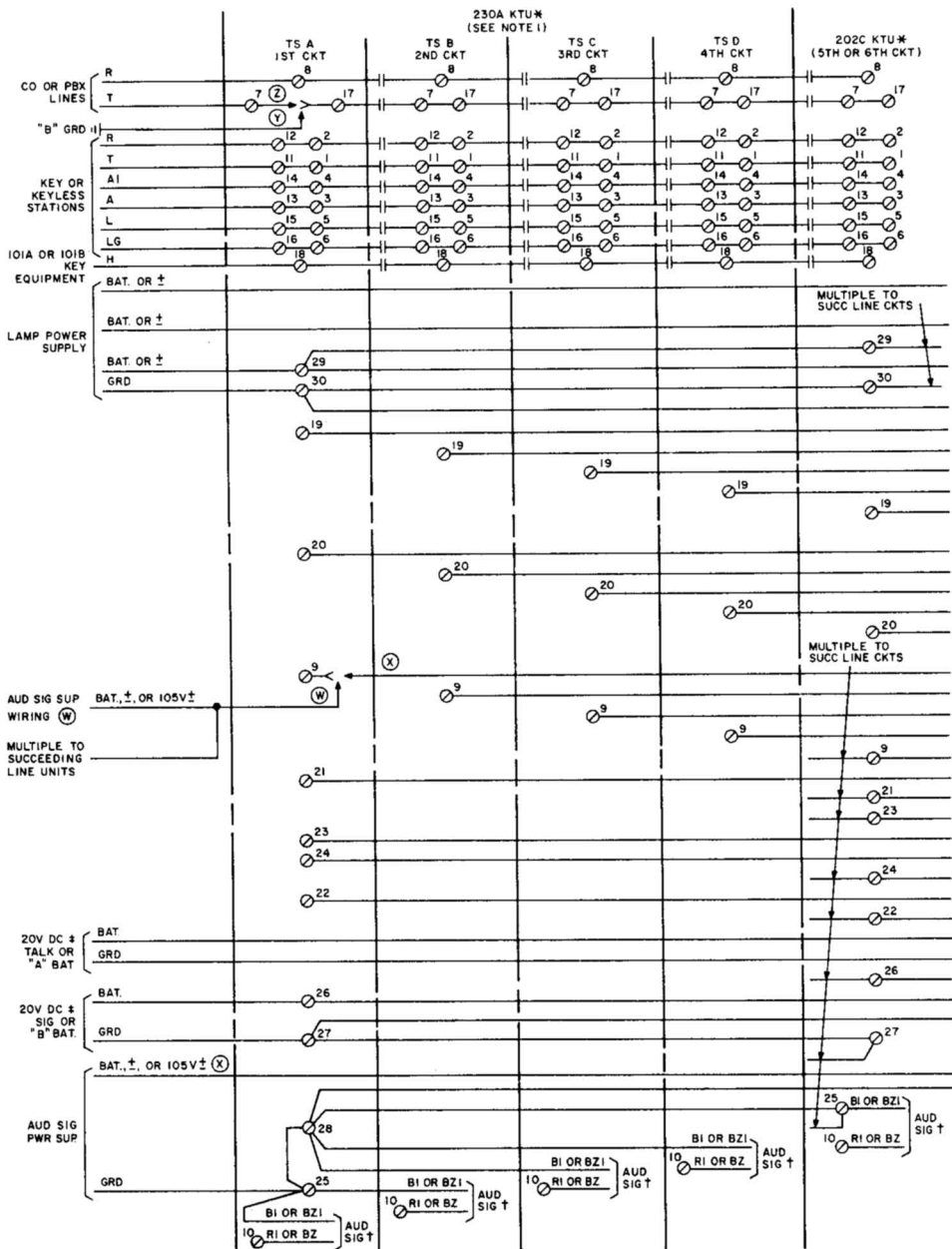
2.03 An externally mounted power unit must be provided for the 200F- and G-type KTUs.

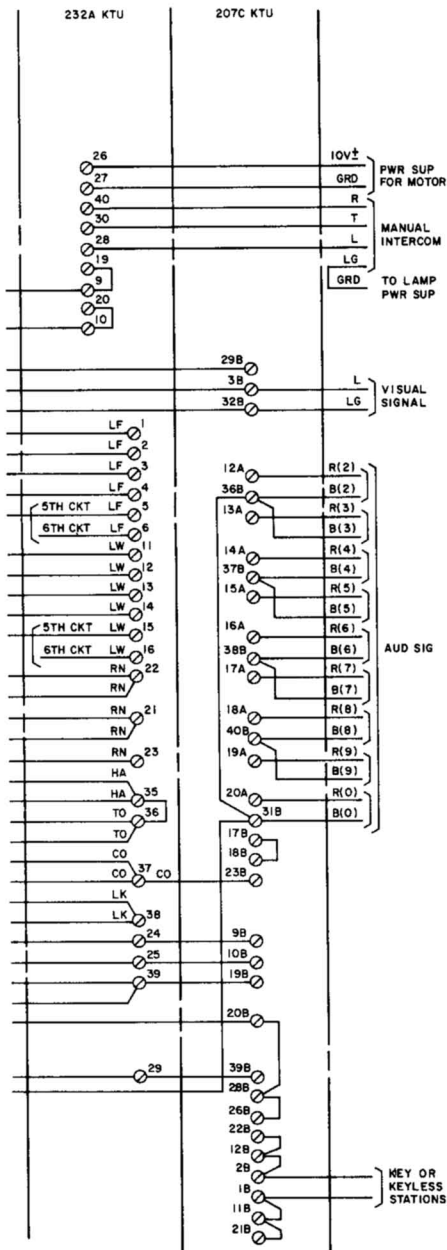
2.04 Tables A, B, and C show the running cable connections for the 200F-, G-, and K-type KTUs, respectively.

2.05 Fig. 1 and 2, 3 and 4, and 5 and 6 provide strapping between KTUs and power connections for the 200F-, G-, and K-type KTUs, respectively.

2.06 Table D provides audible and visual signaling options for the 200-type KTUs.

2.07 For further information, refer to CD- and SD-69352-01 for the 200F-, CD- and SD-69353-01 for the 200G- and CD- and SD-69361-01 for the 200K-type KTUs.





NOTES:

1. SYMBOL (||) MEANS DO NOT STRAP ADJACENT TERMINALS. RUN LEADS TO LOCATION INDICATED BY LEGEND.
2. FOR THE 230A BATTERY AND GROUND ARE TERMINATED ON TERMINAL STRIP A AND STRAPPED INTERNALLY.
3. MAXIMUM 20 LAMPS PER L LEAD
4. WHEN STEADY HOLD LAMP IS REQUIRED INSTEAD OF LAMP WINK

PROVIDE STRAPS AS FOLLOWS:

202C KTU - TERM. 20 AND 29

230A KTU - TERM. 20 A,B,C,D AND 29A

CAUTION: IF PACKAGE INTERRUPTER IS USED TO FURNISH LAMP WINK FOR OTHER SYSTEMS, DISCONNECT AND TAPE LW LEADS AT TERM. 20 OF EACH LINE CIRCUIT NOT USING THE WINK FEATURE.

* FURNISHED WIRED FOR METALLIC RINGING AND INTERRUPTED AUDIBLE. CAN BE WIRED FOR GROUNDING RINGING, AND STEADY AUDIBLE SEE SECTION ENTITLED "REFERENCE-1A1 KEY TELEPHONE UNITS".

† FOR COMMON AUDIBLE, STRAP ALL NO. 10 TERMINALS.

‡ A AND B GROUNDS MUST BE CONNECTED TOGETHER AT POWER SUPPLY.

Fig. 1—200F-Type KTU (202C, 230A, 2232A, and 207C) Connecting and Strappings (Sheet 2)

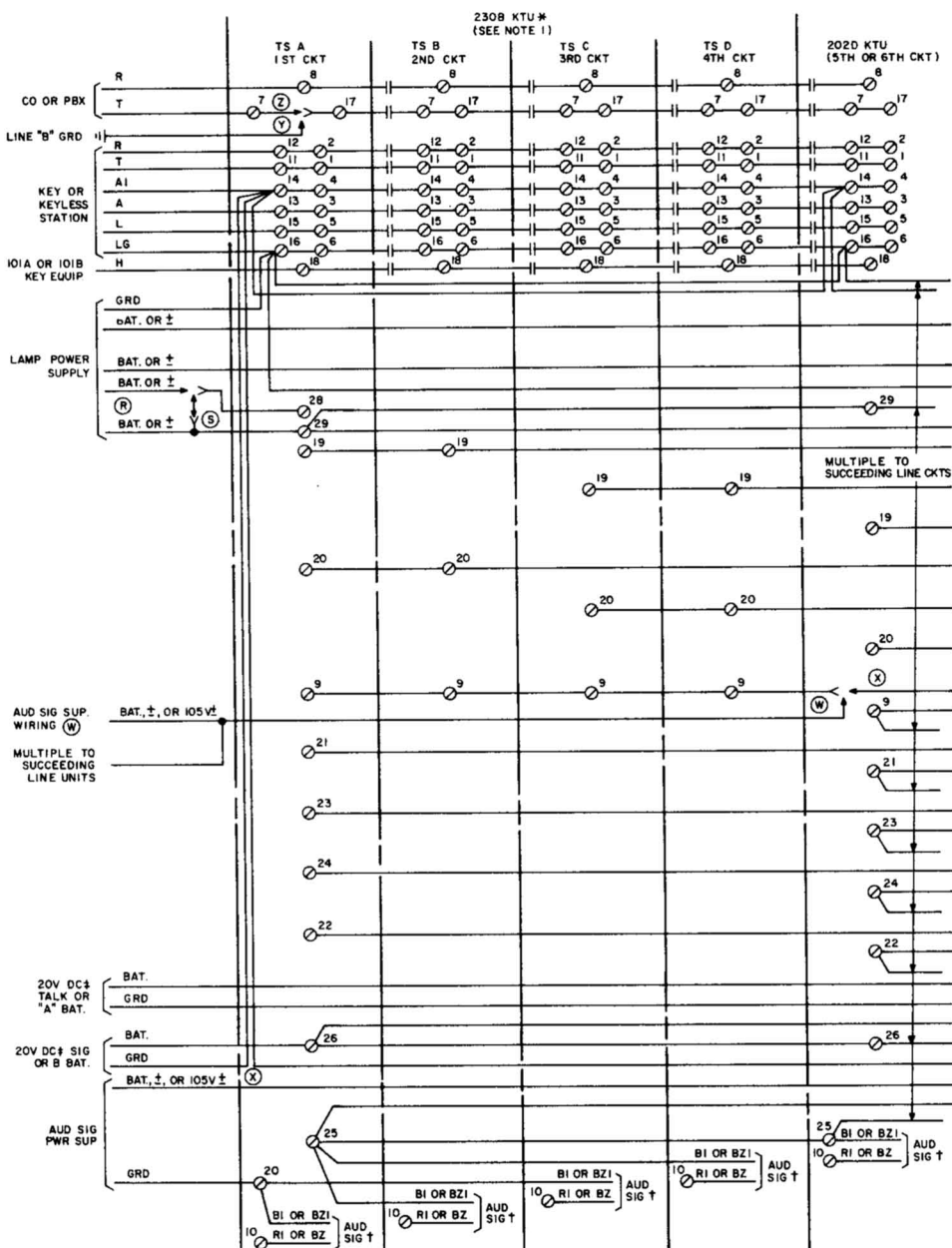
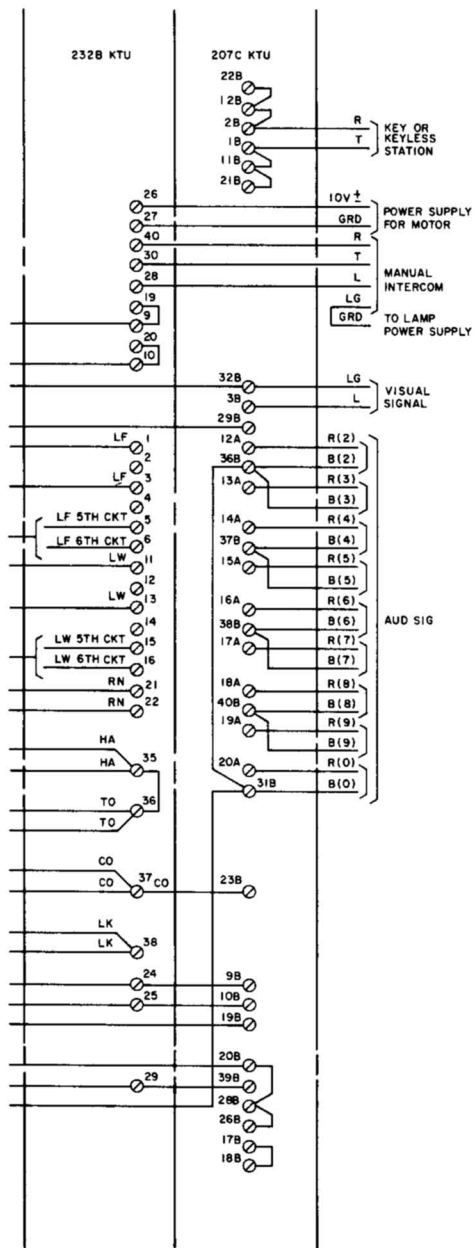


Fig. 2—200F-Type KTU (202D, 230B, 232B, and 207C) Connections and Strappings (Sheet 1)



NOTES:

1. SYMBOL (||) MEANS DO NOT STRAP ADJACENT TERMINALS. RUN LEADS TO LOCATION INDICATED BY LEGEND.
2. FOR THE 230BKTU BATTERY AND GROUND TERMINATED ON TERMINAL STRIP A AND STRAPPED INTERNALLY.
3. MAXIMUM 20 LAMPS PER L LEAD.

4. WHEN STEADY HOLD LAMP IS REQUIRED INSTEAD OF LAMP WINK, PROVIDE STRAPS AS FOLLOWS:

202D KTU - TERM. 20 AND 29
230B KTU - TERM. 20 A,B, AND 29A

TERM. 20 C,D AND 28A

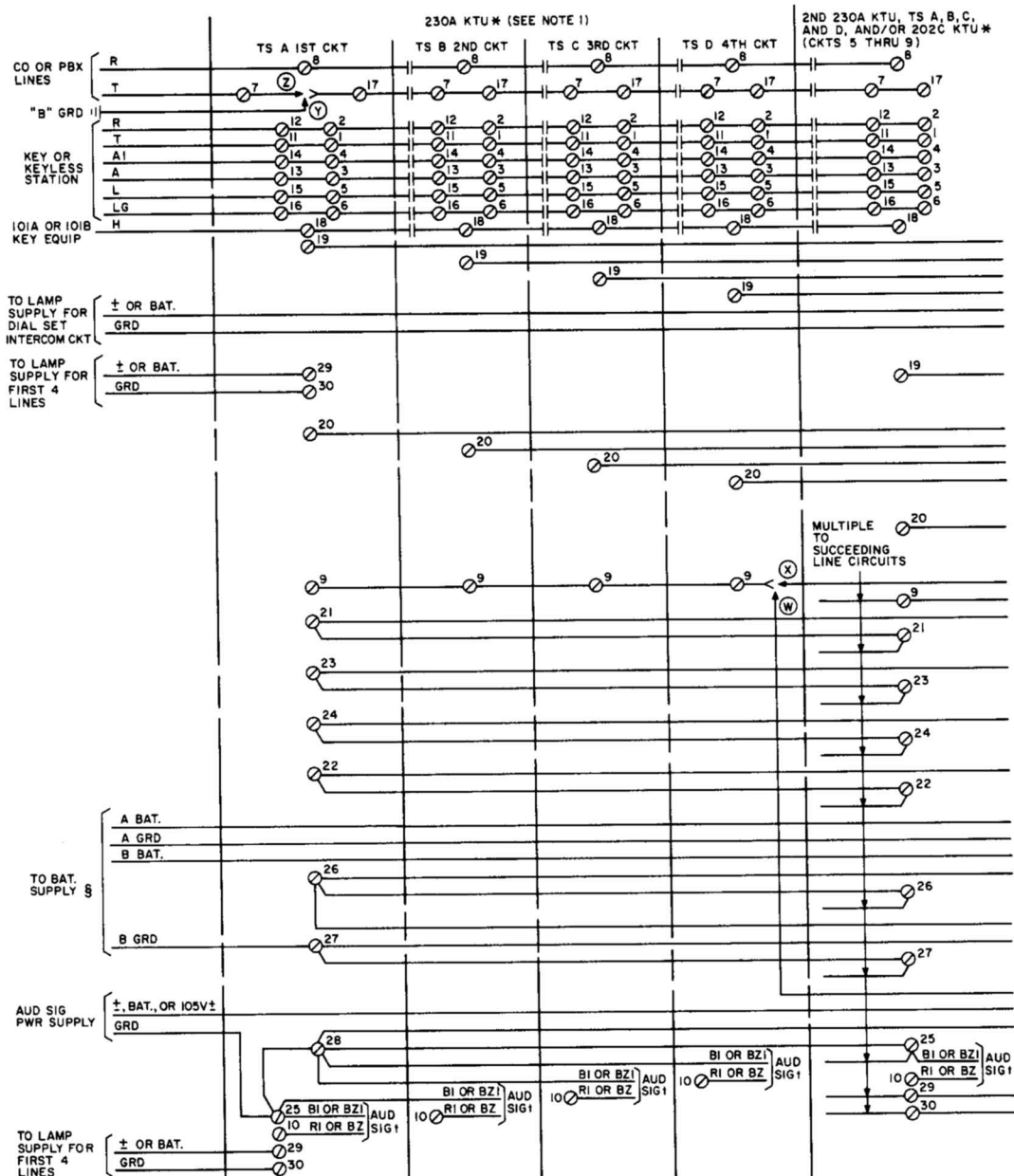
CAUTION: IF PACKAGE INTERRUPTER IS USED TO FURNISH LAMP WINK FOR OTHER SYSTEMS, DISCONNECT AND TAPE LW LEADS AT TERMINAL 20 OF EACH LINE CIRCUIT NOT USING THE WINK FEATURE.

- * FURNISHED WIRED FOR METALLIC AND INTERRUPTED AUDIBLE. CAN BE WIRED FOR GROUNDED RINGING AND STEADY AUDIBLE. SEE SECTION ENTITLED "REFERENCE-1A1 KEY TELEPHONE UNITS"

† FOR COMMON AUDIBLE, STRAP ALL NO. 10 TERMINALS

‡ A AND B GROUNDS MUST BE CONNECTED TOGETHER AT POWER SUPPLY.

Fig. 2—200F-Type KTU (202D, 230B, 232B, and 207C) Connections and Strappings (Sheet 2)



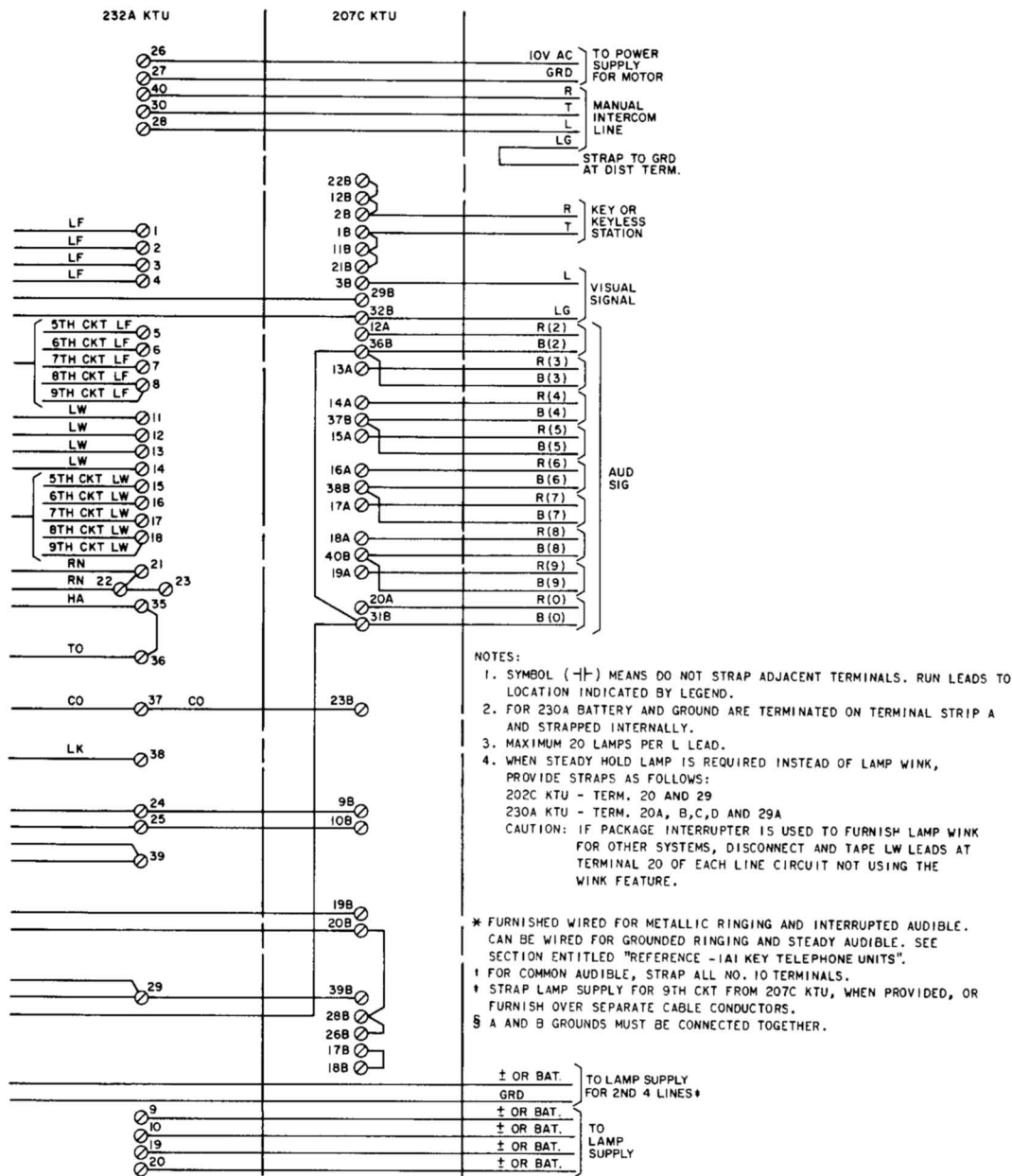


Fig. 3—200G-Type KTU (202C, 230A, 232A, and 207C) Connections and Strappings (Sheet 2)

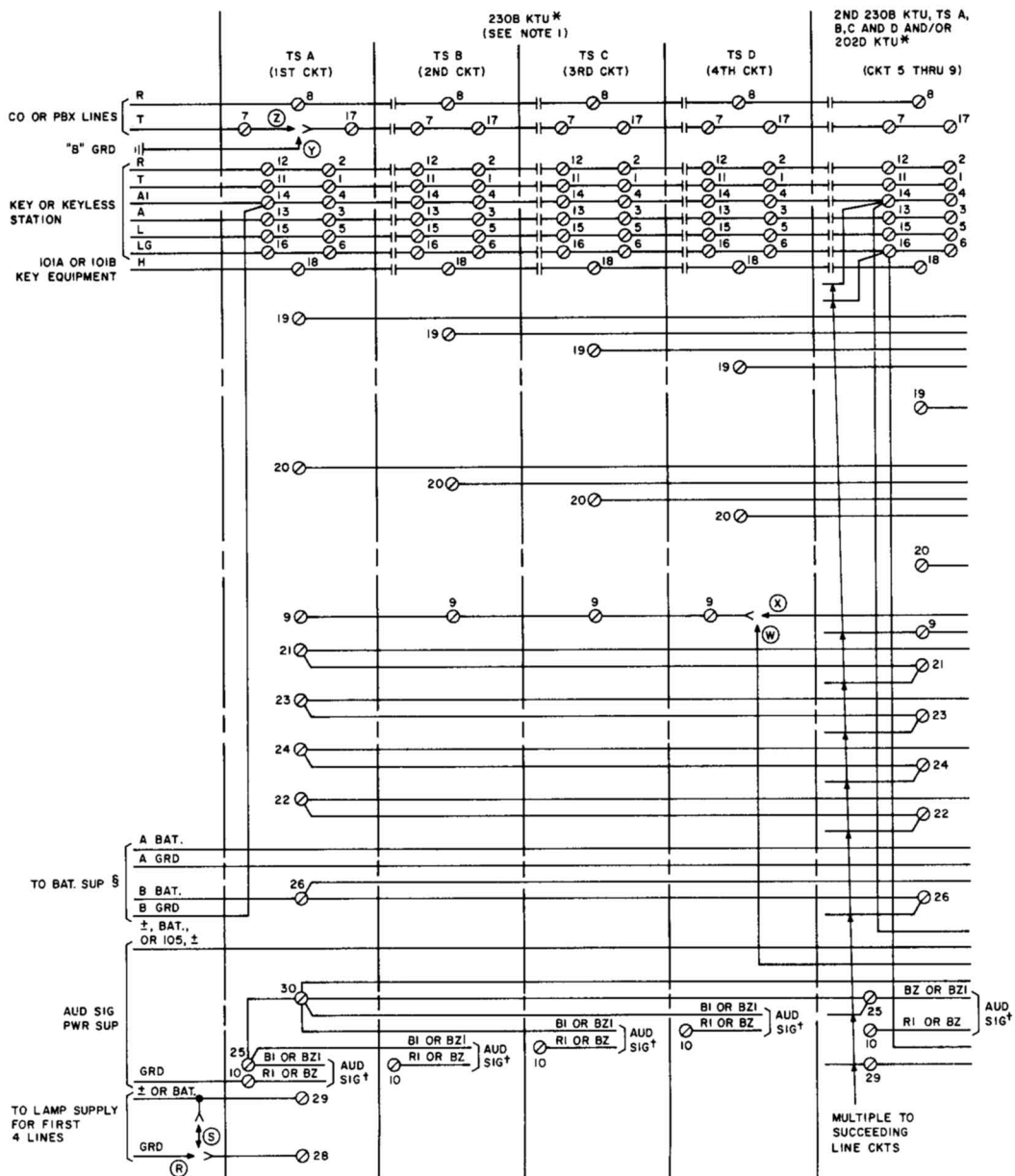
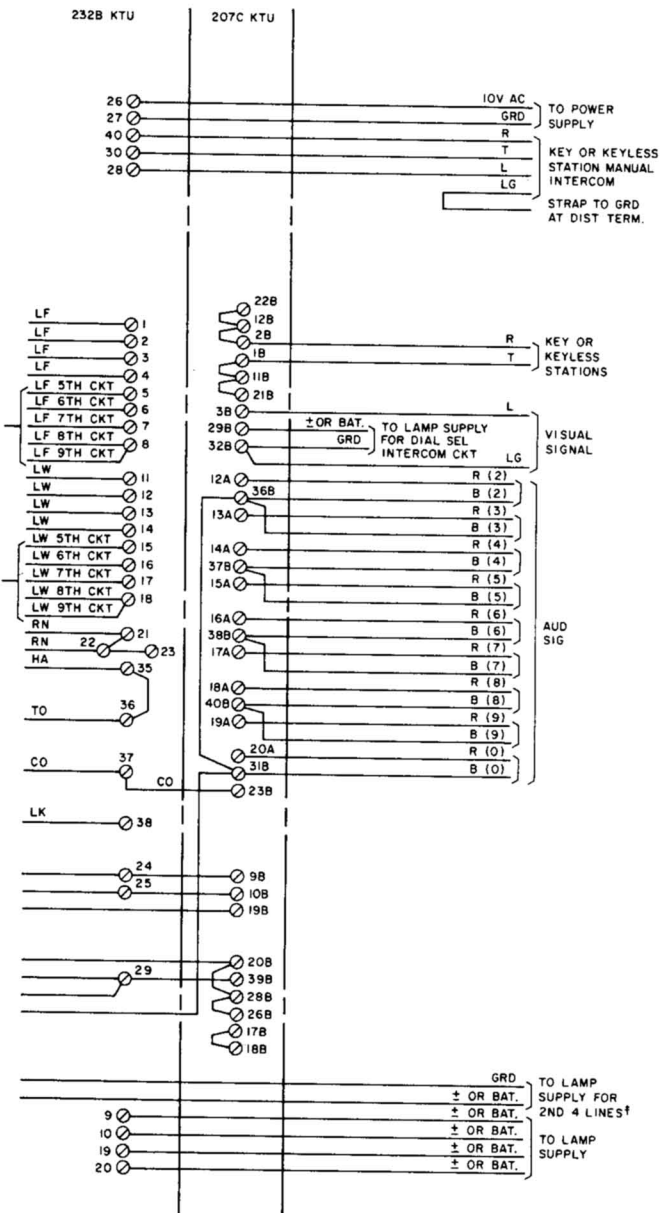


Fig. 4—200G-Type KTU (202D, 230B, 232B, and 207C) Connections and Strappings (Sheet 1)



NOTES:

1. SYMBOL (11) MEANS DO NOT STRAP ADJACENT TERMINALS. RUN LEADS TO LOCATION INDICATED BY LEGEND.
 2. ON 230B BATTERY AND GROUND ARE TERMINATED ON TERMINAL STRIP A AND STRAPPED INTERNALLY.
 3. MAXIMUM 20 LAMPS PER L LEAD.
 4. WHEN STEADY HOLD LAMP IS REQUIRED INSTEAD OF LAMP WINK, PROVIDE STRAPS AS FOLLOWS:
202D KTU - TERM. 20 AND 29
230B KTU - TERM. 20A, B AND 29A
TERM. 20C, D AND 28A
- CAUTION: IF PACKAGE INTERRUPTER IS USED TO FURNISH LAMP WINK FOR OTHER SYSTEMS, DISCONNECT AND TAPE LW LEADS AT TERMINAL 20 OF EACH LINE CIRCUIT NOT USING THE WINK FEATURE.
- * FURNISHED WIRED FOR METALLIC RINGING AND INTERRUPTED AUDIBLE. CAN BE WIRED FOR GROUNDED RINGING, AND STEADY AUDIBLE SEE SECTION ENTITLED "REFERENCE-1A1 KEY TELEPHONE UNITS".
- † FOR COMMON AUDIBLE, STRAP ALL NO. 10 TERMINALS.
- ‡ STRAP LAMP SUPPLY FOR 9TH CKT FROM 207C KTU, WHEN PROVIDED, OR FURNISH OVER SEPARATE CABLE CONDUCTORS.
- § A AND B GROUNDS MUST BE CONNECTED TOGETHER.

Fig. 4—200G-Type KTU (202D, 230B, 232B, and 207C) Connections and Strappings (Sheet 2)

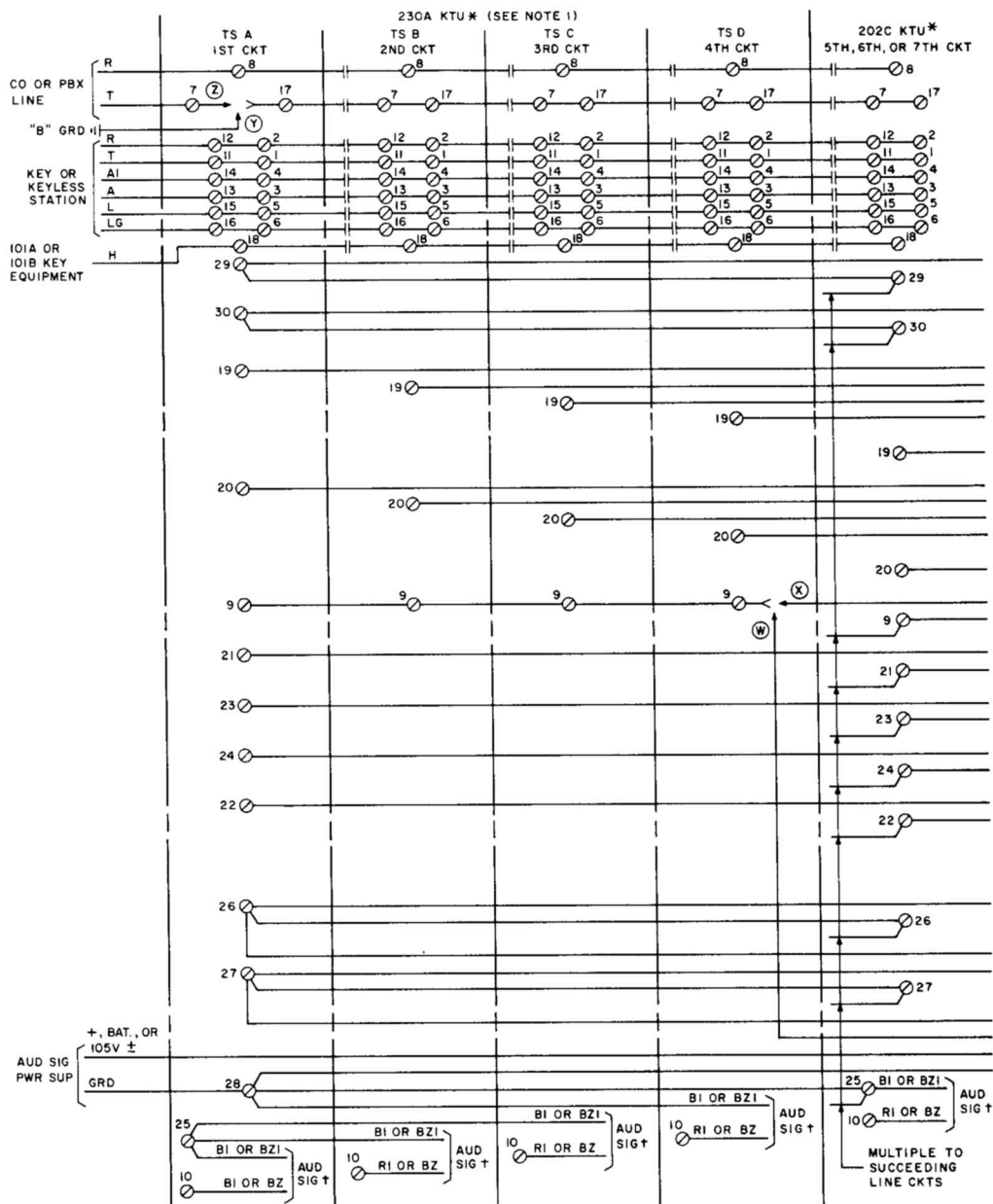
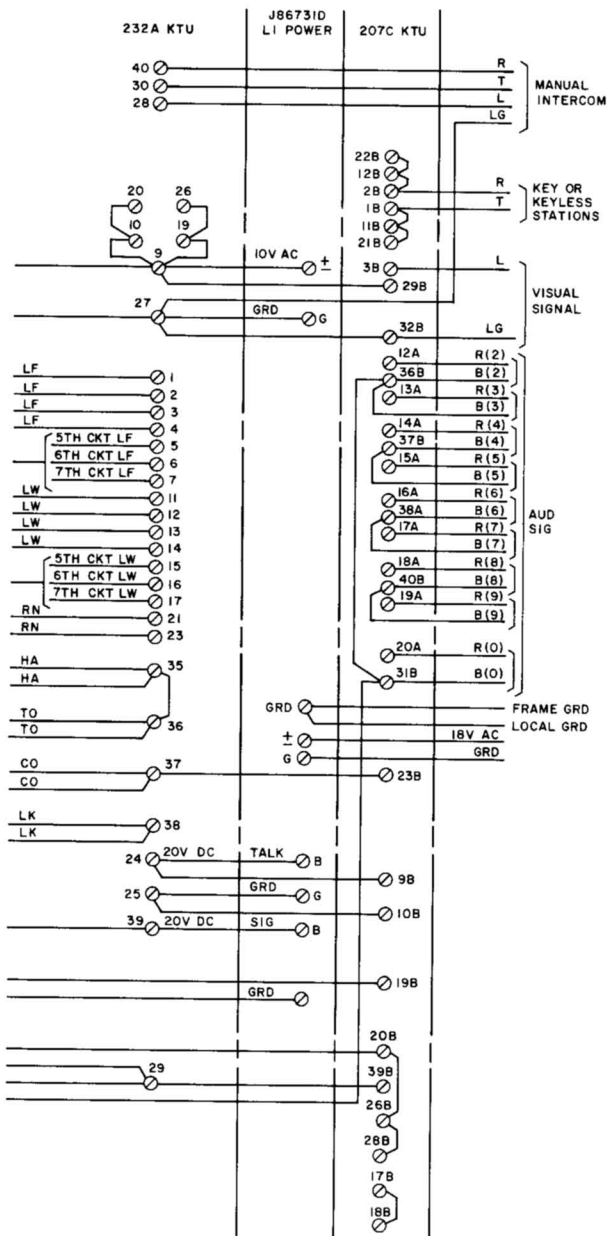


Fig. 5—200K-Type KTU (202C, 230A, 232A, and 207C) Connections and Strappings (Sheet 1)



NOTES:

1. SYMBOL (||) MEANS DO NOT STRAP ADJACENT TERMINALS. RUN LEADS TO LOCATION INDICATED BY LEGEND
 2. FOR 230A BATTERY AND GROUND ARE TERMINATED ON TERMINAL STRIP A AND STRAPPED INTERNALLY.
 3. MAXIMUM 20 LAMPS PER L LEAD
 4. WHEN STEADY HOLD LAMP IS REQUIRED INSTEAD OF LAMP WINK. PROVIDE STRAPS AS FOLLOWS:
202C KTU TERM. 20 AND 29.
230A KTU TERM. 20A, B, C, D AND 29A
CAUTION: IF PACKAGE INTERRUPTER IS USED TO FURNISH LAMP WINK FOR OTHER SYSTEMS, DISCONNECT AND TAPE LW LEADS AT TERMINAL 20 OF EACH LINE CIRCUIT NOT USING THE WINK FEATURE
- * FURNISHED WIRED FOR METALLIC RINGING AND INTERRUPTED AUDIBLE. CAN BE WIRED FOR GROUNDED RINGING AND STEADY AUDIBLE. SEE SECTION ENTITLED "REFERENCE-1A1 KEY TELEPHONE UNITS".
- † FOR COMMON AUDIBLE, STRAP ALL NO. 10 TERMINALS.

Fig. 5—200K-Type KTU (202C, 230A, 232A, and 207C) Connections and Strappings (Sheet 2)

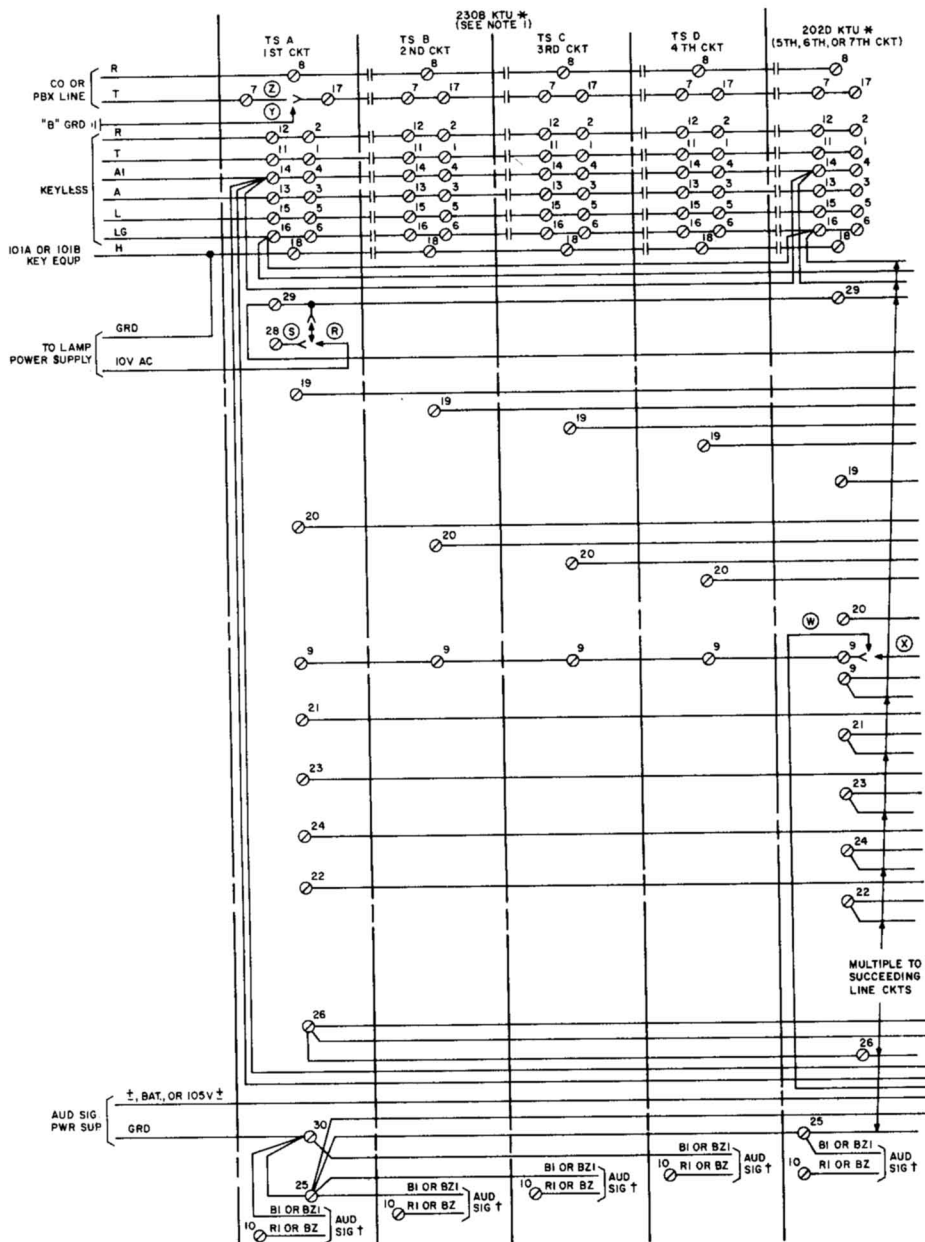
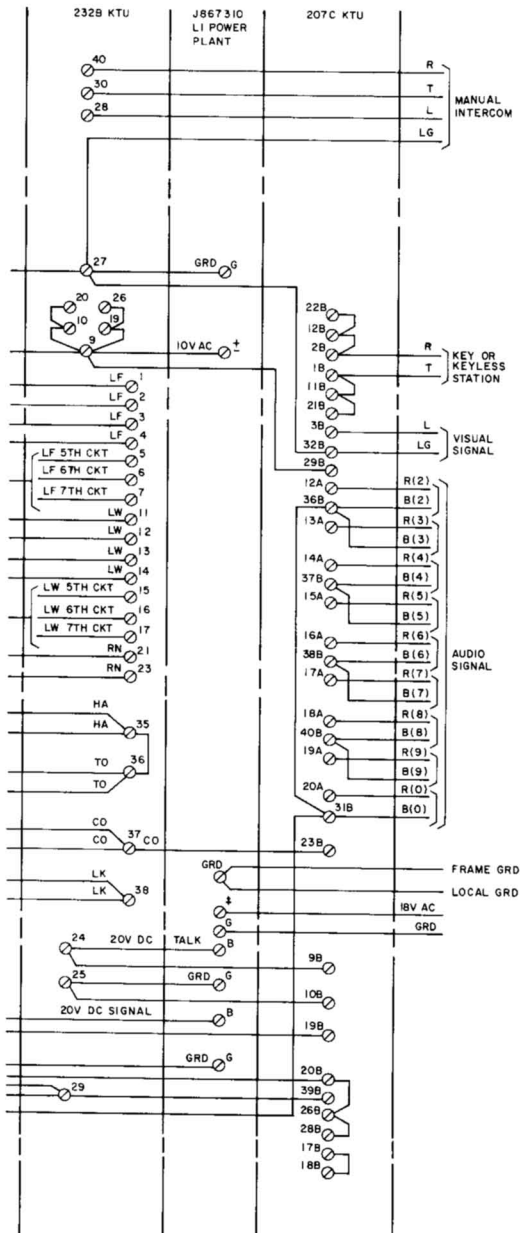


Fig. 6—200K-Type KTU (202D, 230B, 232B, and 207C) Connections and Strappings (Sheet 1)



NOTES:

1. SYMBOL (||) MEANS DO NOT STRAP ADJACENT TERMINALS. RUN LEADS TO LOCATION INDICATED BY LEGEND.

2. FOR 230B BATTERY AND GROUND ARE TERMINATED ON TERMINAL STRIP A AND STRAPPED INTERNALLY
3. MAXIMUM 20 LAMPS PER L LEAD

4. WHEN STEADY HOLD LAMP IS REQUIRED INSTEAD OF LAMP WINK, PROVIDE STRAPS AS FOLLOWS:

202D KTU - TERM. 20 AND 29

230B KTU - TERM. 20 A, B, AND 29A

TERM. 20 C, D, AND 28A

CAUTION: IF PACKAGE INTERRUPTER IS USED TO FURNISH LAMP WINK FOR OTHER SYSTEMS, DISCONNECT AND TAPE LW LEADS AT TERMINAL 20 OF EACH LINE CIRCUIT NOT USING THE WINK FEATURE.

* FURNISHED WIRED FOR METALLIC RINGING AND INTERRUPTED AUDIBLE. CAN BE WIRED FOR GROUNDED RINGING AND STEADY AUDIBLE. SEE SECTION ENTITLED "REFERENCE-1A1 KEY TELEPHONE UNITS"

† FOR COMMON AUDIBLE, STRAP ALL NO. 10 TERMINALS

Fig. 6—200K-Type KTU (202D, 230B, 232B, and 207C) Connections and Strappings (Sheet 2)

TABLE A
200F-TYPE KTU — CONNECTIONS

FEATURE		LEAD DESIGNATION	64A1-50 CABLE TERMINAL		TERMINAL ON 232A OR B KTU*	TERMINAL ON KTU		TERMINAL ON 202C OR D KTU	TERMINAL ON 207C KTU	
			30-TYPE CONN BLOCK TERMINAL	INSIDE WIRING CABLE BLUE BINDER		230A	230B†			
Key or Keyless Stations	Line 1	T	1T	(W-BL) [W]		1A-11A				
		R	1R	(BL-W) [BL]		2A-12A				
		A	2T	(W-O) [W]		3A-13A				
		A1	2R	(O-W) [O]		4A-14A				
	Line 2	LG	3T	(W-G) [W]		6A-16A				
		L	3R	(G-W) [G]		5A-15A				
		T	4T	(W-BR) [W]		1B-11B				
		R	4R	(BR-W) [BR]		2B-12B				
	Line 3	A	5T	(W-S) [W]		3B-13B				
		A1	5R	(S-W) [S]		4B-14B				
		LG	6T	(R-BL) [R]		6B-16B				
		L	6R	(BL-R) [BL]		5B-15B				
	Line 4	T	7T	(R-O) [R]		1C-11C				
		R	7R	(O-R) [O]		2C-12C				
		A	8T	(R-G) [R]		3C-13C				
		A1	8R	(G-R) [G]		4C-14C				
	Line 5	LG	9T	(R-BR) [R]		6C-16C				
		L	9R	(BR-R) [BR]		5C-15C				
		T	10T	(R-S) [R]		1D-11D				
		R	10R	(S-R) [S]		2D-12D				
	Line 6	A	11T	(BK-BL) [BK]		3D-13D				
		A1	11R	(BL-BK) [BL]		4D-14D				
		LG	12T	(BK-O) [BK]		6D-16D				
		L	12R	(O-BK) [O]		5D-15D				
	Line 7	T	13T	(BK-G) [BK]				1-11	1st	
		R	13R	(G-BK) [G]				2-12		
		A	14T	(BK-BR) [BK]				3-13		
		A1	14R	(BR-BK) [BR]				4-14		
	Line 8	LG	15T	(BK-S) [BK]				6-16	2nd	
		L	15R	(S-BK) [S]				5-15		
		T	16T	(Y-BL) [Y]				1-11		
		R	16R	(BL-Y) [BL]				2-12		
	Line 9	A	17T	(Y-O) [Y]				3-13		
		A1	17R	(O-Y) [O]				4-14		
		LG	18T	(Y-G) [Y]				6-16		
		L	18R	(G-Y) [G]				5-15		
Motor Supply	GRD	19T	(Y-BR) [Y]	27						
	10V ±	19R	(BR-Y) [BR]	26						
Spare		20T	(Y-S) [Y]							
		20R	(S-Y) [S]							
Lamp Supply	± or BAT.	21T†	(V-BL) [V]	9						
	± or BAT.	21R†	(BL-V) [BL]	10						
	GRD	22T	(V-O) [V]		30A	6A				
	± or BAT.	22R†	(O-V) [O]		29A	29A				
Audible Signal Supply	GRD	23T	(V-G) [V]		25A	30A				
	BAT., ±, or 105V ±	23R	(G-V) [G]	29						
20V DC Talk or A Battery	GRD	24T	(V-BR) [V]	25						
	BAT.	24R	(BR-V) [BR]	24						
20V DC Signal or B Battery	GRD	25T	(V-S) [V]		27A	4A				
	BAT.	25R	(S-V) [S]		26A	26A				

* The 232B KTU is arranged internally to disable time-out feature when BF relay is operated.

† The 230B KTU is arranged for individual fusing of circuits 1 and 2 and circuits 3 and 4 lamp input power.

‡ With 1 to 72 lamps, strap 21R, 21T, and 22R; with 73 to 144 lamps, strap 21R and 22R and run separate power lead to 21T.

() Current Color Code.

[] MD Color Code.

TABLE A (Cont)
200F-TYPE KTU — CONNECTIONS

64A1-50 CABLE TERMINAL CONNECTIONS									
FEATURE	LEAD DESIGNATION	64A1-50 CABLE TERMINAL		TERMINAL ON 232A OR B KTU*	TERMINAL ON KTU		TERMINAL ON 202C OR D KTU	TERMINAL ON 207C KTU	
		30-TYPE CONN BLOCK TERMINAL	INSIDE WIRING CABLE ORANGE BINDER		230A	230B†			
Manual Intercom Line	T	26T	(W-BL) [W]	30					
	R	26R	(BL-W) [BL]	40					
	LG	27T*	(W-O) [W]	†					
	L	27R	(O-W) [O]	28					
Audible Signal	Line 1	B1 or BZ1	28T	(W-G) [W]		25A	30A		
		R1 or BZ	28R	(G-W) [G]		10A	10A		
	Line 2	B1 or BZ1	29T	(W-BR) [W]		25A			
		R1 or BZ	29R	(BR-W) [BR]		10B			
		B1 or BZ1	30T	(W-S) [W]		28A	30A		
		R1 or BZ	30R	(S-W) [S]		10C	10C		
	Line 4	B1 or BZ1	31T	(R-BL) [R]		28A	25A		
		R1 or BZ	31R	(BL-R) [BL]		10D	10D		
	Line 5	B1 or BZ1	32T	(R-O) [R]				25	1st
		R1 or BZ	32R	(O-R) [O]				10	
	Line 6	B1 or BZ1	33T	(R-G) [R]				25	2nd
		R1 or BZ	33R	(G-R) [G]				10	
Dial Selective Intercom Line	T	34T	(R-BR) [R]					1B-11B-21B	
	R	34R	(BR-R) [BR]					2B-12B-22B	
	LG	35T	(R-S) [R]					32B	
	L	35R	(S-R) [S]					3B	
	B(2)	36T	(BK-BL) [BK]					36B	
	R(2)	36R	(BL-BK) [BL]					12A	
	B(3)	37T	(BK-O) [BK]					36B	
	R(3)	37R	(O-BK) [O]					13A	
	B(4)	38T	(BK-G) [BK]					37B	
	R(4)	38R	(G-BK) [G]					14A	
	B(5)	39T	(BK-BR) [BK]					37B	
	R(5)	39R	(BR-BK) [BR]					15A	
	B(6)	40T	(BK-BL) [BK]					38B	
	R(6)	40R	(BL-BK) [BL]					16A	
	B(7)	41T	(Y-BL) [Y]					38B	
	R(7)	41R	(BL-Y) [BL]					17A	
	B(8)	42T	(Y-O) [Y]					40B	
	R(8)	42R	(O-Y) [O]					18A	
B(9)	43T	(Y-G) [Y]					40B		
R(9)	43R	(G-Y) [G]					19A		
B(0)	44T	(Y-BR) [Y]					31B		
R(0)	44R	(BR-Y) [BR]					20A		
CO or PBX	Line 1	T	45T	(Y-S) [Y]		7A			
		R	45R	(S-Y) [S]		8A			
	Line 2	T	46T	(V-BL) [V]		7B			
		R	46R	(BL-V) [BL]		8B			
	Line 3	T	47T	(V-O) [V]		7C			
		R	47R	(O-V) [O]		8C			
	Line 4	T	48T	(V-G) [V]		7D			
		R	48R	(G-V) [G]		8D			
	Line 5	T	49T	(V-BR) [V]				7	1st
		R	49R	(BR-V) [BR]				8	
	Line 6	T	50T	(V-S) [V]				7	2nd
		R	50R	(S-V) [S]				8	

* Strap to 22T or terminate LG lead to lamp ground if cable terminal is not provided.

† Not terminated.

() Current Color Code.

[] MD Color Code.

TABLE B
200G-TYPE KTU — CONNECTIONS

FEATURE	LEAD DESIGNATION	6481-75 CABLE TERMINAL		TERMINAL* ON KTU		TERMINAL† ON KTU		TERMINAL‡ ON KTU		TERMINAL ON 207C KTU	
		TERMINAL STRIP A	INSIDE WIRING CABLE BLUE BINDER	232A	232B	230A	230B	202C	202D		
Line 1	T	1	(W-BL) [W]			1A-11A	1st				
	R	2	(BL-W) [BL]			2A-12A					
	A	3	(W-O) [W]			3A-13A					
	A1	4	(O-W) [O]			4A-14A					
	LG	5	(W-G) [W]			6A-16A					
	L	6	(G-W) [G]			5A-15A					
Line 2	T	7	(W-BR) [W]			1B-11B					
	R	8	(BR-W) [BR]			2B-12B					
	A	9	(W-S) [W]			3B-13B					
	A1	10	(S-W) [S]			4B-14B					
	LG	11	(R-BL) [R]			6B-16B					
	L	12	(BL-R) [BL]			5B-15B					
Line 3	T	13	(R-O) [R]			1C-11C					
	R	14	(O-R) [O]			2C-12C					
	A	15	(R-G) [R]			3C-13C					
	A1	16	(G-R) [G]			4C-14C					
	LG	17	(R-BR) [R]			6C-16C					
	L	18	(BR-R) [BR]			5C-15C					
Line 4	T	19	(R-S) [R]			1D-11D					
	R	20	(S-R) [S]			2D-12D					
	A	21	(BK-BL) [BK]			3D-13D					
	A1	22	(BL-BK) [BL]			4D-14D					
	LG	23	(BK-O) [BK]			6D-16D					
	L	24	(O-BK) [O]			5D-15D					
Line 5	T	25	(BK-G) [BK]			1A-11A	2nd‡	1-11	1st		
	R	26	(G-BK) [G]			2A-12A		2-12			
	A	27	(BK-BR) [BK]			3A-13A		3-13			
	A1	28	(BR-BK) [BR]			4A-14A		4-14			
	LG	29	(BK-S) [BK]			6A-16A		6-16			
	L	30	(S-BK) [S]			5A-15A		5-15			
Line 6	T	31	(Y-BL) [Y]			1B-11B			1-11	2nd	
	R	32	(BL-Y) [BL]			2B-12B			2-12		
	A	33	(Y-O) [Y]			3B-13B			3-13		
	A1	34	(O-Y) [O]			4B-14B			4-14		
	LG	35	(Y-G) [Y]			6B-16B			6-16		
	L	36	(G-Y) [G]			5B-15B			5-15		
Manual Intercom Line	T	37	(Y-BR) [Y]	30							
	R	38	(BR-Y) [BR]	40							
	LG	39§	(Y-S) [Y]								
	L	40	(S-Y) [S]	28							

* 232B KTU is arranged internally to disable time-out feature when BF relay is operated.

† 230B KTU is arranged for individual fusing of circuits 1 and 2 and circuits 3 and 4 lamp input power.

‡ If second 230A or B KTU is not used for lines 5 through 8, terminate leads on 202C or D key telephone units as shown.

§ Strap to terminal strip A, punching 5.

() Current Color Code.

[] MD Color Code.

TABLE B (Cont)
200G-TYPE KTU — CONNECTIONS

FEATURE	LEAD DESIGNATION	64B1-75 CABLE TERMINAL		TERMINAL ON KTU		TERMINAL ON KTU		TERMINAL ON KTU		TERMINAL ON 207C KTU
		TERMINAL STRIP A	INSIDE WIRING CABLE	232A	232B	230A	230B	202C	202D	
Line 7	T	1	(V-BL) [V]	BLUE BINDER		1C-11C		1-11		
	R	2	(BL-V) [BL]			2C-12C		2-12		
	A	3	(V-O) [V]			3C-13C		3-13		
	A1	4	(O-V) [O]			4C-14C		4-14		
Line 8	LG	5	(V-G) [V]			6C-16C		6-16		
	L	6	(G-V) [G]			5C-15C		5-15		
	T	7	(V-BR) [V]			1D-11D		1-11		
	R	8	(BR-V) [BR]			2D-12D		2-12		
Line 9	A	9	(V-S) [V]			3D-13D		3-13		
	A1	10	(S-V) [S]			4D-14D		4-14		
	LG	11	(W-BL) [W]			6D-16D		6-16		
	L	12	(BL-W) [BL]			5D-15D		5-15		
Line 9	T	13	(W-O) [W]	ORANGE BINDER				1-11		
	R	14	(O-W) [O]					2-12		
	A	15	(W-G) [W]					3-13		
	A1	16	(G-W) [G]					4-14		
Dial Selective Intercom Line	LG	17	(W-BR) [W]					6-16		
	L	18	(BR-W) [BR]					5-15		
	T	19	(W-S) [W]							1B-11B-21B
	R	20	(S-W) [S]							2B-12B-22B
	LG	21	(R-BL) [R]							32B
	L	22	(BL-R) [BL]							3B
	B(2)	23	(R-O) [R]							36B
	R(2)	24	(O-R) [O]							12A
	B(3)	25	(R-G) [R]							36B
	R(3)	26	(G-R) [G]							13A
	B(4)	27	(R-BR) [R]							37B
	R(4)	28	(BR-R) [BR]							14A
	B(5)	29	(R-S) [R]							37B
	R(5)	30	(S-R) [S]							15A
	B(6)	31	(BK-BL) [BK]							38B
	R(6)	32	(BL-BK) [BL]							16A
	B(7)	33	(BK-O) [BK]							38B
	R(7)	34	(O-BK) [O]							17A
	B(8)	35	(BK-G) [BK]							40B
	R(8)	36	(G-BK) [G]							18A
	B(9)	37	(BK-BR) [BK]							40B
	R(9)	38	(BR-BK) [BR]							19A
	B(0)	39	(BK-S) [BK]							31B
	R(0)	40	(S-BK) [S]							20A

† If second 230A or B KTU is not used for lines 5 through 8, terminate leads on 202C or D key telephone units as shown.
 () Current Color Code.
 [] MD Color Code.

TABLE B (Cont)
200G-TYPE KTU — CONNECTIONS

FEATURE		LEAD DESIGNATION	6481-75 CABLE TERMINAL		TERMINAL ON KTU		TERMINAL ON KTU		TERMINAL ON KTU		TERMINAL ON 207C KTU	
			TERMINAL STRIP A	INSIDE WIRING CABLE	232A	232B	230A	230B	202C	202D		
Aud Sig	Line 1	B1 or BZ1 R1 or BZ	1 2	(Y-BL) [Y] (BL-Y) [BL]	ORANGE BINDER			25A 10A	1st			
	Line 2	B1 or BZ1 R1 or BZ	3 4	(Y-O) [Y] (O-Y) [O]				25A 10B				
	Line 3	B1 or BZ1 R1 or BZ	5 6	(Y-G) [Y] (G-Y) [G]			28A 10C	30A 10C				
	Line 4	B1 or BZ1 R1 or BZ	7 8	(Y-BR) [Y] (BR-Y) [BR]			28A 10D	30A 10D				
	Line 5	B1 or BZ1 R1 or BZ	9 10	(Y-S) [Y] (S-Y) [S]				25A 10A	2nd†	25 10	1st	
	Line 6	B1 or BZ1 R1 or BZ	11 12	(V-BL) [V] (BL-V) [BL]			25A 10B	30A 10B		25 10	30 10	2nd
	Line 7	B1 or BZ1 R1 or BZ	13 14	(V-O) [V] (O-V) [O]			28A 10C	25A 10C		25 10		3rd
	Line 8	B1 or BZ1 R1 or BZ	15 16	(V-G) [V] (G-V) [G]			28A 10D	30A 10D		25 10	30 10	4th
	Line 9	B1 or BZ1 R1 or BZ	17 18	(V-BR) [V] (BR-V) [BR]						25 10		5th
CO or PBX	Line 1	T R	19 20	(V-S) [V] (S-V) [S]	GREEN BINDER			7A 8A	1st			
	Line 2	T R	21 22	(W-BL) [W] (BL-W) [BL]				7B 8B				
	Line 3	T R	23 24	(W-O) [W] (O-W) [O]				7C 8C				
	Line 4	T R	25 26	(W-G) [W] (G-W) [G]				7D 8D				
	Line 5	T R	27 28	(W-BR) [W] (BR-W) [BR]				7A 8A	2nd†	7 8	1st	
	Line 6	T R	29 30	(W-S) [W] (S-W) [S]				7B 8B		7 8	2nd	
	Line 7	T R	31 32	(R-BL) [R] (BL-R) [BL]				7C 8C		7 8	3rd	
	Line 8	T R	33 34	(R-O) [R] (O-R) [O]				7D 8D		7 8	4th	
	Line 9	T R	35 36	(R-G) [R] (G-R) [G]						7 8	5th	
Spare			37 38	(R-BR) [R] (BR-R) [BR]								
			39 40	(R-S) [R] (S-R) [S]								

† If second 230A or B KTU is not used for lines 5 through 8, terminate leads on 202C or D key telephone units as shown.
 [] MD Color Code.
 () Current Color Code.

TABLE B (Cont)
200G-TYPE KTU — CONNECTIONS

FEATURE	LEAD DESIGNATION	64B1-75 CABLE TERMINAL		TERMINAL ON KTU		TERMINAL ON KTU		TERMINAL ON KTU		TERMINAL ON 207C KTU
		TERMINAL STRIP E	INSIDE WIRING CABLE GREEN BINDER	232A	232B	230A	230B	202C	202D	
20V DC Talk (A Bat.)	GRD BAT.	1	(BK-BL) [BK]	25						
		2	(BL-BK) [BL]	24						
20V DC Sig (B Bat.)	GRD BAT.	3	(BK-O) [BK]			27A	14A			
		4	(O-BK) [O]	39			26A			
Motor Supply	GRD 10V ±	5	(BK-G) [BK]	27						
		6	(G-BK) [G]	26						
Aud Sig Supply	GRD BAT., ±, or 105V ±	7	(BK-BR) [BK]							
		8	(BR-BK) [BR]	29		25A				
Lamp Supply 1st 4 Lines	GRD ± or BAT.	9	(BK-S) [BK]			30A	16A			
		10	(S-BK) [S]			29A	29A			
Lamp Supply 2nd 4 Lines	GRD ± or BAT.	11	(Y-BL) [Y]			30A	16A			
		12	(BL-Y) [BL]			29A	29A	2nd†	30 29	6 29 1st
Lamp Supply 9th Line and Dial Selective Intercom	GRD ± or BAT.	13	(Y-O) [Y]							
		14	(O-Y) [O]					30 29	6 29	5th 32B 29B
Lamp Supply	± or BAT.	15	(Y-G) [Y]	9						
	± or BAT.	16	(G-Y) [G]	10						
	± or BAT.	17	(Y-BR) [Y]	19						
	± or BAT.	18	(BR-Y) [BR]	20						
Spare		19	(Y-S) [Y]							
		20	(S-Y) [S]							
		21	(V-BL) [V]							
		22	(BL-V) [BL]							
		23	(V-O) [V]							
		24	(O-V) [O]							
		25	(V-G) [V]							
		26	(G-V) [G]							
		27	(V-BR) [V]							
		28	(BR-V) [BR]							
		29	(V-S) [V]							
		30	(S-V) [S]							
Vacant		31								
		32								
		33								
		34								
		35								
		36								
		37								
		38								
		39								
		40								

† If second 230A or B KTU is not used for lines 5 through 8, terminate leads on 202C or D key telephone units as shown.
 () Current Color Code.
 [] MD Color Code.

TABLE C
200K-TYPE KTU — CONNECTIONS

FEATURE	LEAD DESIGNATION	64A1-50 CABLE TERMINAL		TERMINAL ON 232A OR B KTU*	TERMINAL ON 230A OR B KTU†	TERMINAL ON 202C OR D KTU	TERMINAL ON 207C KTU
		30-TYPE CONN BLOCK TERMINAL	INSIDE WIRING CABLE BLUE BINDER				
Line 1	T R	1T 1R	(W-BL) [W] (BL-W) [BL]		1A-11A 2A-12A		
	A A1	2T 2R	(W-O) [W] (O-W) [O]		3A-13A 4A-14A		
	LG L	3T 3R	(W-G) [W] (G-W) [G]		6A-16A 5A-15A		
Line 2	T R	4T 4R	(W-BR) [W] (BR-W) [BR]		1B-11B 2B-12B		
	A A1	5T 5R	(W-S) [W] (S-W) [S]		3B-13B 4B-14B		
	LG L	6T 6R	(R-BL) [R] (BL-R) [BL]		6B-16B 5B-15B		
Line 3	T R	7T 7R	(R-O) [R] (O-R) [O]		1C-11C 2C-12C		
	A A1	8T 8R	(R-G) [R] (G-R) [G]		3C-13C 4C-14C		
	LG L	9T 9R	(R-BR) [R] (BR-R) [BR]		6C-16C 5C-15C		
Line 4	T R	10T 10R	(R-S) [R] (S-R) [S]		1D-11D 2D-12D		
	A A1	11T 11R	(BK-BL) [BK] (BL-BK) [BL]		3D-13D 4D-14D		
	LG L	12T 12R	(BK-O) [BK] (O-BK) [O]		6D-16D 5D-15D		
Line 5	T R	13T 13R	(BK-G) [BK] (G-BK) [G]			1-11 2-12	1st
	A A1	14T 14R	(BK-BR) [BK] (BR-BK) [BR]			3-13 4-14	
	LG L	15T 15R	(BL-S) [BK] (S-BL) [S]			6-16 5-15	
Line 6	T R	16T 16R	(Y-BL) [Y] (BL-Y) [BL]			1-11 2-12	2nd
	A A1	17T 17R	(Y-O) [Y] (O-Y) [O]			3-13 4-14	
	LG L	18T 18R	(Y-G) [Y] (G-Y) [G]			6-16 5-15	
Line 7	T R	19T 19R	(Y-BR) [Y] (BR-Y) [BR]			1-11 2-12	3rd
	A A1	20T 20R	(Y-S) [Y] (S-Y) [S]			3-13 4-14	
	LG L	21T 21R	(V-BL) [V] (BL-V) [BL]			6-16 5-15	
Manual Intercom Line	T R	22T 22R	(V-O) [V] (O-V) [O]	30 40			
	LG L	23T 23R	(V-G) [V] (G-V) [G]	27 28			
Dial Selective Intercom Line	T R	24T 24R	(V-BR) [V] (BR-V) [BR]				1B-11B-21B 2B-12B-22B
	LG L	25T 25R	(V-S) [V] (S-V) [S]				32B 3B

* 232B KTU is arranged internally to disable time-out feature when BF relay is operated.

† 230B KTU is arranged for individual fusing of Circuits 1 and 2 and Circuits 3 and 4 lamp input power.

() Current Color Code.

[] MD Color Code.

TABLE C (Cont)
200K-TYPE KTU — CONNECTIONS

FEATURE	LEAD DESIGNATION	64A1-50 CABLE TERMINAL		TERMINAL ON 232A OR B KTU*	TERMINAL ON 230A OR B KTU†		TERMINAL ON 202C OR D KTU		TERMINAL ON 207C KTU
		30-TYPE CONN BLOCK TERMINAL	INSIDE WIRING CABLE ORANGE BINDER						
Dial Selective Intercom Line	B(2) R(2)	26T 26R	(W-BL) [W] (BL-W) [BL]						36B 12A
	B(3) R(3)	27T 27R	(W-O) [W] (O-W) [O]						36B 13A
	B(4) R(4)	28T 28R	(W-G) [W] (G-W) [G]						37B 14A
	B(5) R(5)	29T 29R	(W-BR) [W] (BR-W) [BR]						37B 15A
	B(6) R(6)	30T 30R	(W-S) [W] (S-W) [S]						38B 16A
	B(7) R(7)	31T 31R	(R-BL) [R] (BL-R) [BL]						38B 17A
	B(8) R(8)	32T 32R	(R-O) [R] (O-R) [O]						40B 18A
	B(9) R(9)	33T 33R	(R-G) [R] (G-R) [G]						40B 19A
	B(0) R(0)	34T 34R	(R-BR) [R] (BR-R) [BR]						31B 20A
Line 1	B1 or BZ1 R1 or BZ	35T 35R	(R-S) [R] (S-R) [S]		25A 10A	30A 10A			
Line 2	B1 or BZ1 R1 or BZ	36T 36R	(BK-BL) [BK] (BL-BK) [BL]		25A 10B				
Line 3	B1 or BZ1 R1 or BZ	37T 37R	(BK-O) [BK] (O-BK) [O]		25A 10C				
Line 4	B1 or BZ1 R1 or BZ	38T 38R	(BK-G) [BK] (G-BK) [G]		28A 10D	30A 10D			
Line 5	B1 or BZ1 B1 or BZ1	39T 39R	(BK-BR) [BK] (BR-BK) [BR]				25 10	1st	
Line 6	R1 or BZ R1 or BZ	40T 40R	(BK-S) [BK] (S-BK) [S]				25 10	2nd	
Line 7	B1 or BZ1 R1 or BZ	41T 41R	(Y-BL) [Y] (BL-Y) [BL]				25 10	3rd	
CO or PBX	Line 1 T R	42T 42R	(Y-O) [Y] (O-Y) [O]		7A 8A				
	Line 2 T R	43T 43R	(Y-G) [Y] (G-Y) [G]		7B 8B				
	Line 3 T R	44T 44R	(Y-BR) [Y] (BR-Y) [BR]		7C 8C				
	Line 4 T R	45T 45R	(Y-S) [Y] (S-Y) [S]		7D 8D				
	Line 5 T R	46T 46R	(V-BL) [V] (BL-V) [BL]				7 8	1st	
	Line 6 T R	47T 47R	(V-O) [V] (O-V) [O]				7 8	2nd	
	Line 7 T R	48T 48R	(V-G) [V] (G-V) [G]				7 8	3rd	
Ring Supply	GRD 105V±	49T 49R*	(V-BR) [V] (BR-V) [BR]	29	28A	30A			
Local Ground	GRD GRD	50T 50R	(V-S) [V] (S-V) [S]						

* If J86731C, List 1 (frequency-generator) power plant is installed locally, disconnect and tape (V-BR) [V] and (BR-V) [BR] cable pair.
 () Current Color Code.
 [] MD Color Code.

TABLE D
200-TYPE KTU OPTIONS

WIRING FOR CO OR PBX LINES		OPTION
Metalic Ringing (Furnished)		Z
Grounded Ringing		Y
Interrupted Audible Sig (Furnished)		X
Steady Audible Signal		W
Lamp Max	Max 40 Lamps (Furnished)	S
	Max 80 Lamps	R