

PUSH-BUTTON AND BUZZER CIRCUITS

TERMINATIONS IN APPARATUS CABINET

1. GENERAL

- 1.01 This section covers code and/or selective signaling push-button and buzzer circuit connections in the apparatus cabinet for a maximum of twelve stations. This includes connections for power supply and for key and/or running cables.
- 1.02 Connections required at the station for push-button and buzzer circuits are shown in the following listed sections:
- (a) C66.217—Push buttons and buzzers located in 440- and 460-series key telephone sets
 - (b) C66.218—Push buttons and buzzers located in 540- and 560-series key telephone sets
 - (c) C66.219—Buzzers located outside key telephone sets
 - (d) C66.220—Push buttons located outside key telephone sets or external switching keys
 - (e) C66.222—Push buttons located in external switching keys
- 1.03 An index listing the various tables for type of signaling system, power supply, and key or running cable connections is shown on page 4 of this section.

2. KEY AND RUNNING CABLE ASSIGNMENTS

- 2.01 When amplified talking circuits **are not** to be run through the same key or running cable (Fig. 1, page 2) conductors are assigned as follows:
- (a) One common conductor (one half of a pair) is assigned to supply ground to all push buttons.
 - (b) One common conductor (one half of a pair) is assigned to supply power to all buzzers.
 - (c) One common conductor (one half of a pair) is assigned to connect push button ("S" lead) to bridging block.
 - (d) One common conductor (one half of a pair) is assigned to connect buzzer ("B1" lead) to bridging block.
 - (e) The "S" leads from the push buttons to be bridged to the "B1" leads from their associated buzzers at the bridging block.
- 2.02 When amplified talking circuits **are** to be run through the same key or running cable (Fig. 2, page 3) conductors are assigned as follows:
- (a) One pair is assigned for each push-button circuit.
 - (1) One conductor to be used to supply ground to push button.
 - (2) One conductor to be used to connect push button ("S" lead) to bridging block.
 - (b) One pair is assigned for each buzzer circuit.
 - (1) One conductor to be used to supply power to buzzer.
 - (2) One conductor to be used to connect buzzer ("B1" lead) to bridging block.
 - (c) The "S" leads from the push buttons to be bridged to the "B1" leads from their associated buzzers at the bridging block.

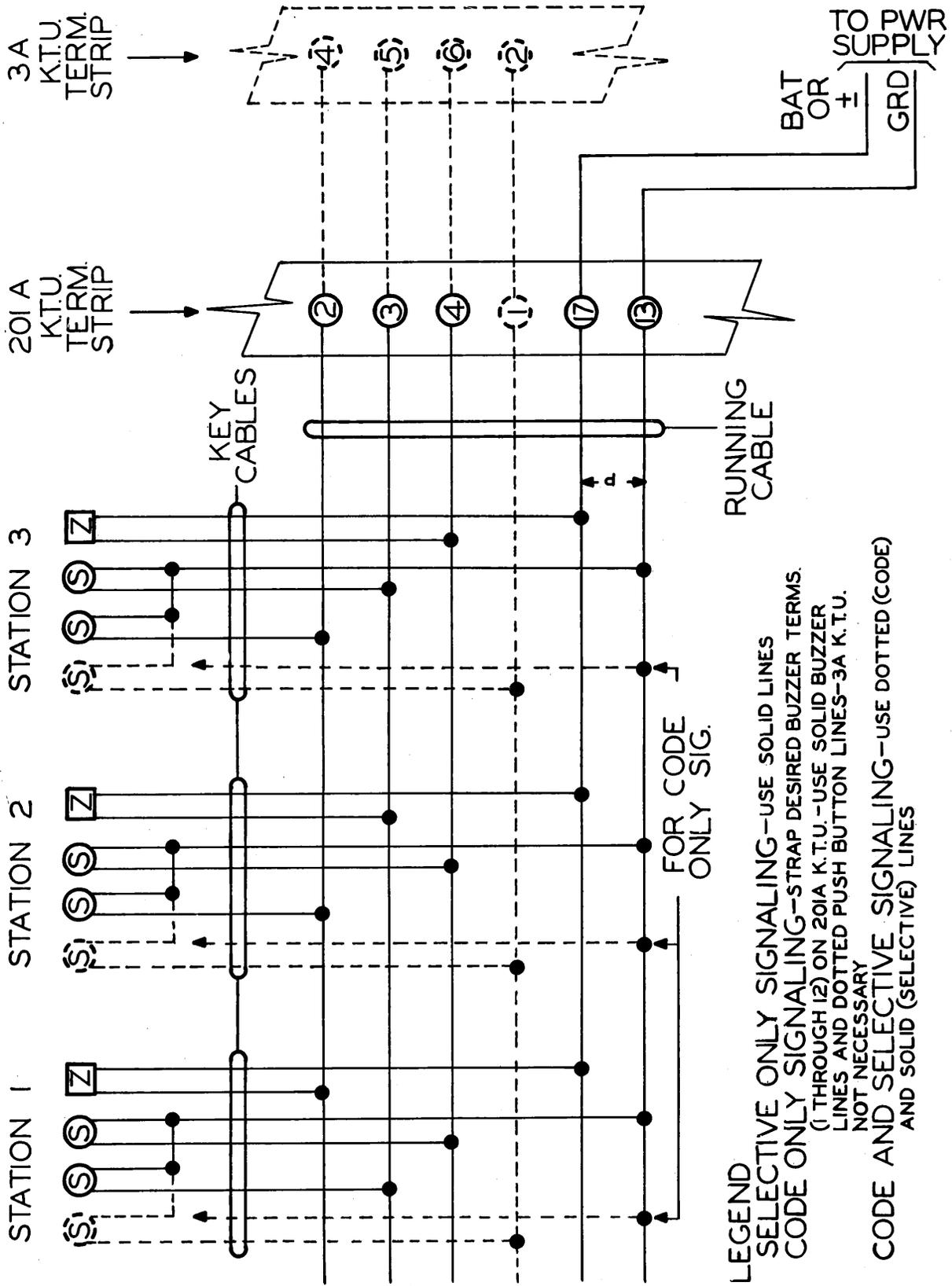


Fig. 1—Typical Diagram Illustrating Code and/or Selective Signaling Arrangement — Half Pairs Used for SI and BI Leads With a Common Wire Used for Ground Supply to Push Buttons and Common Wire Used for Battery Supply to Buzzers

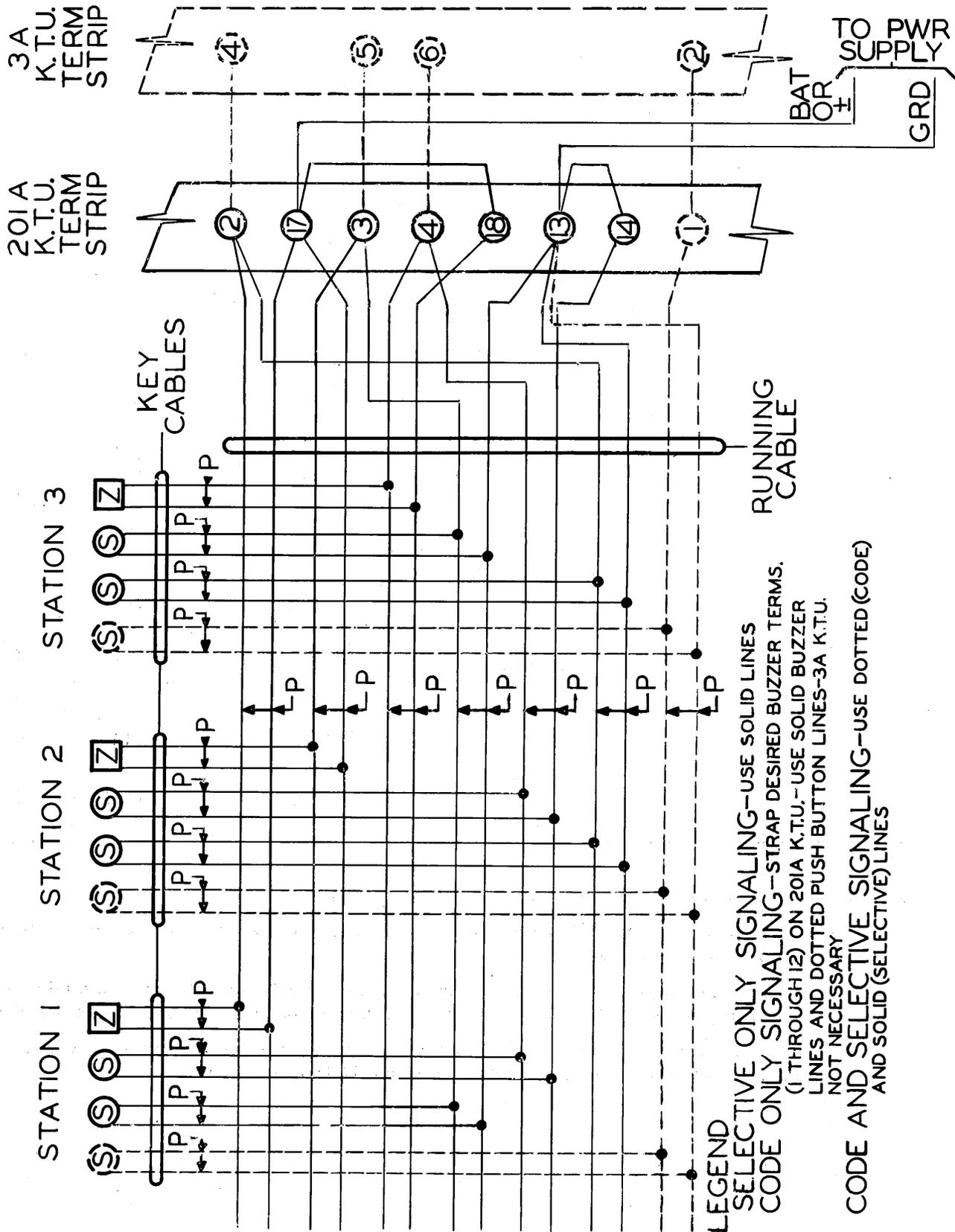


Fig. 2—Typical Diagram Illustrating Code and/or Selective Signaling Arrangements — Whole Pairs Used for S1 and Ground Leads to Push Buttons, and Whole Pairs Used for B1 and Battery Leads to Buzzers

INDEX**WIRING BETWEEN KEY TELEPHONE UNITS**

FEATURES PROVIDED	TABLE NO.	PAGE NO.
Code and Selective Signaling	14.02	6
Code Signaling Only	14.04	7

POWER WIRING

POWER					TABLE NO.	PAGE NO.
FURNISHED	TYPE	SOURCE	CONNECTED FROM	FOR		
Through Fuse Units	Battery (Low Voltage AC or DC)	101G Power Plant, Transformer, and/or CO, PBX, Bldg, or Local Battery	Fuse Unit ★	Code or Selective Signaling	14.01	5
				Code and Selective Signaling	14.01	5
Direct to Bridging and Signaling Units			CO or PBX Line Unit ★	Code or Selective Signaling	14.03	6
				Code or Selective Signaling	14.06	8
			Aud. Sig. Control Unit ★	Code and Selective Signaling	14.06	8
				Code and Selective Signaling	14.08	9
			Incoming Wiring From Source ★	Code or Selective Signaling	14.07	8
				Code and Selective Signaling	14.07	8
			Code or Selective Signaling	14.08	9	
			Code or Selective Signaling	14.05	7	

Note: ★ If fuse units are furnished, select tables 14.01 and 14.03 as appropriate.

If fuse units are not furnished and low voltage ac or dc is used to operate common audible signal, select tables 14.06 and 14.08 as appropriate.

If fuse units are not furnished and low voltage ac or dc is not used to operate common audible signal, but is used to operate audible signal control unit, select tables 14.07 and 14.08 as appropriate.

If fuse units are not furnished and low voltage ac or dc is not used to operate common audible signal or audible signal control unit, select tables 14.05 and 14.08 as appropriate.

STATION CABLE CONNECTIONS

TYPE OF CABLE	EQUIP.	LOCATION OF BUZZER AND TYPE OF OPERATION			TABLE NO.	PAGE NO.
Key	Buzzers	Internal			14.09	10
		External			14.10	11
	Sig. Keys (Push Buttons)	Internal	All 1A1 Key Tel. Sets Except 565A	Code or Sel. Sys.	14.11	12
				Code and Sel. Sys.	14.12	13
		External	565A Key Tel. Sets	Code or Sel. Sys.	14.13	14
				Code and Sel. Sys.	14.14	15
	External	Code or Sel. Sys. and Code and Sel. Sys.	Cable Not Arranged For Amplification of Talking Ckt.	14.15	16	
			Cable Arranged For Amplification of Talking Ckt.	14.16	17	
Running	Buzzers and Sig. Keys (Push Buttons)	Internal or External	Code or Sel. Sys.	Cable Not Arranged For Amplification of Talking Ckt.	14.17	18
				Cable Arranged For Amplification of Talking Ckt.	14.18	19
		External	Code and Sel. Sys.	Cable Not Arranged For Amplification of Talking Ckt.	14.19	20
				Cable Arranged For Amplification of Talking Ckt.	14.20	21

POWER CONNECTIONS BETWEEN PUSH-BUTTON AND BUZZER UNIT (201A) AND CIRCUIT FUSE UNIT (201A)

TABLE 14.01

Run Straps as Shown Below:

LEAD DESIG.	PUSH-BUTTON AND BUZZER SYS. 201A K.T.U. TERM.	CKT. FUSE 201A K.T.U. TERM.
BUZZER POWER	17, 18, 19, and 20	10
BUZZER GRD	13, 14, 15, and 16	19

Reference: SD-69203-0125, Fig. 66

TABLE 14.02

**CONNECTIONS BETWEEN BUZZER SYSTEM BRIDGING UNIT
(201A) AND CODE AND SELECTIVE SIGNALING UNIT (3A)**

Run Straps as Shown Below:

SIG. KEY LEAD NO.	LEAD DESIG.	BUZZER SYS. 201A K.T.U. TERM.	3A K.T.U.
			1st 3A K.T.U. TERM.
1	S	1 *	2 ✖
2	S	2	4
3	S	3	5
4	S	4	6
5	S	5	7
6	S	6	8
7	S	7	9
			2nd 3A K.T.U. TERM.
8	S	8	4
9	S	9	5
10	S	10	6
11	S	11	7
12	S	12	8

Notes: ★ Lead used for operating code and signaling unit.

✖ Strap to terminal 2 of all succeeding 3A K.T.U.

Reference: SD-69203-0107, Fig. 19

SD-69203-0125, Fig. 66

TABLE 14.03

**POWER CONNECTIONS BETWEEN CODE AND SELECTIVE
SIGNALING UNIT (3A) AND CIRCUIT FUSE UNIT (201A)**

Run Straps as Shown Below:

LEAD DESIG.	3A K.T.U. TERM.	CKT. FUSE 201A K.T.U. TERM.
RELAY BAT "D"	3	6
RELAY GRD "D"	1	17

Reference: SD-69203-0107, Fig. 19

SD-69203-0125, Fig. 66

**CONNECTIONS ON BUZZER SYSTEM BRIDGING UNIT (201A)
FOR CODE SIGNALING ONLY**

TABLE 14.04

Run Straps as Shown Below:

BUZZER NO.	BUZZER SYS. 201A K.T.U. TERM.	
1	2	GROUP ALL BUZZERS TO BE SIGNALLED ON A CODE BASIS BY STRAPPING THE ASSOCIATED TERMINALS (OF THE BUZZERS BEING GROUPED) ON THE 201A K.T.U.
2	3	
3	4	
4	5	
5	6	
6	7	
7	8	
8	9	
9	10	
10	11	
11	12	
12	1	

Reference: SD-69203-0125, Fig. 66

CONNECTIONS BETWEEN 101G POWER PLANT AND/OR TRANSFORMERS AND PUSH-BUTTON AND BUZZER SYSTEM BRIDGING UNIT (201A)

TABLE 14.05

Make Connections as Shown Below for Local Wiring or Incoming Cable from 101G Power Plant: ★

LEAD DESIG.	101G POWER PLANT TERM. ✕	INCOMING CABLE		BUZZER SYS. 201A K.T.U. TERM.	
		PAIR NO.	"C" INSIDE WIRING		"D" INSIDE WIRING
			CONDUCTOR COLOR		
BUZZER POWER	18V ±	15	G-W	S	17, 18, 19, and 20
BUZZER GRD	GRD		W	BK	13, 14, 15, and 16

Notes: ★ When local wiring is used, connect terminals on push-button and buzzer system bridging unit (201A) with 20-gauge copper wire.

✕ Or similar terminals on transformer.

Reference: SD-69203-0125, Fig. 66

TABLE 14.06**POWER CONNECTIONS BETWEEN CENTRAL OFFICE OR PRIVATE BRANCH EXCHANGE LINE UNIT (202A, 202B, OR 212A) AND PUSH-BUTTON AND BUZZER SYSTEM BRIDGING UNIT (201A)**

Select the One Subtable Applicable to Installation and Run Straps as Shown Below:

SUBTABLE	LEAD DESIG.	K.T.U. USED AS CO OR PBX LINE UNIT	BUZZER SYS. 201A K.T.U. TERM.
a	BUZZER POWER BUZZER GRD	1st or 2nd 202A K.T.U. TERM. 36 33	17, 18, 19, and 20 13, 14, 15, and 16
b	BUZZER POWER BUZZER GRD	1st or 2nd 202B K.T.U. TERM. 19 20	17, 18, 19, and 20 13, 14, 15, and 16
c	BUZZER POWER BUZZER GRD	212A K.T.U. TERM. STRIP "A" TERM. 19 20	17, 18, 19, and 20 13, 14, 15, and 16

Reference: SD-69203-0117, Fig. 51
SD-69203-0125, Fig. 66
SD-69203-01, Figs. 67 and 68

TABLE 14.07**POWER CONNECTIONS BETWEEN AUDIBLE SIGNAL CONTROL UNIT (211A OR 16A) AND PUSH-BUTTON AND BUZZER SYSTEM BRIDGING UNIT (201A)**

Select the One Subtable Applicable to Installation and Run Straps as Shown Below:

SUBTABLE	LEAD DESIG.	K.T.U. USED AS AUD. SIG. CONTROL UNIT	BUZZER SYS. 201A K.T.U. TERM.
a	BUZZER BAT BUZZER GRD	211A K.T.U. TERM. 11 10	17, 18, 19, and 20 13, 14, 15, and 16
b	BUZZER BAT BUZZER GRD	16A K.T.U. TERM. 7 3	17, 18, 19, and 20 13, 14, 15, and 16

Reference: SD-69203-0107, Fig. 24
SD-69203-01
SD-69203-0125, Fig. 66

POWER CONNECTIONS BETWEEN CENTRAL OFFICE OR PRIVATE BRANCH EXCHANGE LINE UNIT (202A, 202B, OR 212A) AND CODE AND SELECTIVE SIGNALING UNIT (3A)

TABLE 14.08

Select the One Subtable Applicable to Installation and Run Straps as Shown Below:

SUBTABLE	LEAD DESIG.	K.T.U. USED AS CO OR PBX LINE UNIT	3A K.T.U. TERM.
a	RELAY BAT "D" RELAY GRD "D"	1st or 2nd 202A K.T.U. TERM. 38 40	3 1
b	RELAY BAT "D" RELAY GRD "D"	1st or 2nd 202B K.T.U. TERM. 29 30	3 1
c	RELAY BAT "D" RELAY GRD "D"	212A K.T.U. TERM. STRIP "A" TERM. 29 30	3 1

Reference: SD-69203-0107, Fig. 19
SD-69203-0117, Fig. 51
SD-69203-01, Figs. 67 and 68

TABLE 14.09

KEY CABLE TO KEY TELEPHONE UNITS — BUZZERS LOCATED
IN KEY TELEPHONE SETS

Connect Key Cable Pairs to Key Telephone Units as Shown Below:

BUZZER NO.	LEAD DESIG.	KEY CABLE			BUZZER SYS. 201A K.T.U. TERM.
		PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
			CONDUCTOR COLOR		
1	R1 B1	12	O-G W	O BK	2 17
2	R1 B1	12	O-G W	O BK	3 17
3	R1 B1	12	O-G W	O BK	4 17
4	R1 B1	12	O-G W	O BK	5 18
5	R1 B1	12	O-G W	O BK	6 18
6	R1 B1	12	O-G W	O BK	7 18
7	R1 B1	12	O-G W	O BK	8 19
8	R1 B1	12	O-G W	O BK	9 19
9	R1 B1	12	O-G W	O BK	10 19
10	R1 B1	12	O-G W	O BK	11 20
11	R1 B1	12	O-G W	O BK	12 20
12	R1 B1	12	O-G W	O BK	1* 20

Note: ★ When both code and selective signaling are used, this terminal is used for code signaling control lead "S" and only 11 buzzer circuits can be connected to bridging unit.

Reference: SD-69203-0125, Fig. 66

**KEY CABLE TO KEY TELEPHONE UNITS — BUZZERS LOCATED
OUTSIDE KEY TELEPHONE SETS**

TABLE 14.10

Connect Key Cable Pairs to Key Telephone Units as Shown Below:

BUZZER NO.	LEAD DESIG.	KEY CABLE			BUZZER SYS. 201A K.T.U. TERM.
		PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
			CONDUCTOR COLOR		
1	R1 B1	21	BL R	BL V	2 17
2	R1 B1	21	BL R	BL V	3 17
3	R1 B1	21	BL R	BL V	4 17
4	R1 B1	21	BL R	BL V	5 18
5	R1 B1	21	BL R	BL V	6 18
6	R1 B1	21	BL R	BL V	7 18
7	R1 B1	21	BL R	BL V	8 19
8	R1 B1	21	BL R	BL V	9 19
9	R1 B1	21	BL R	BL V	10 19
10	R1 B1	21	BL R	BL V	11 20
11	R1 B1	21	BL R	BL V	12 20
12	R1 B1	21	BL R	BL V	1* 20

Note: ★ When both code and selective signaling are used, this terminal is used for code signaling control lead "S" and only 11 buzzer circuits can be connected to bridging unit.

Reference: SD-69203-0125, Fig. 66

TABLE 14.11

KEY CABLE TO KEY TELEPHONE UNITS — FOR ALL 1A1 KEY TELEPHONE SETS EXCEPT 565A SETS — CONNECTIONS TO CODE OR SELECTIVE SIGNALING SYSTEMS

- (A) To Determine Key Cable Pair, Select Horizontal Block (Under KEY CABLE) with Same Number as Signal Key in Key Telephone Set to Which Buzzer or Code and Selective Signaling Unit Will Be Connected:
- (B) To Determine Terminals, Select Horizontal Block (Under KEY TELEPHONE UNIT) with Same Number as Buzzer Being Installed:
- (C) Connect Cable Conductor (Selected in A) to Terminals (Selected in B):

KEY CABLE					KEY TELEPHONE UNIT		
CONNECTIONS FOR	LEAD DESIG.	PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	BUZZER NO.	BUZZER SYS. 201A K.T.U. TERM.	
			CONDUCTOR COLOR				
COMMON GRD	GRD	11	O-W(W)	BL(BK)	to	—	13, 14, 15, or 16
4th BUTTON IN SET	S	6	W(BL-W)	R(BL)		1	2
						2	3
						3	4
						4	5
5th BUTTON IN SET	S	8	W(BL-G)	R(G)		5	6
						6	7
						7	8
						8	9
6th BUTTON IN SET	S	10	W(BL-S)	R(S)		9	10
						10	11
						11	12
						12	1

Reference: SD-69203-0125, Fig. 66
 SD-69206-01
 SD-69219-01

KEY CABLE TO KEY TELEPHONE UNITS — FOR ALL 1A1 KEY TELEPHONE SETS EXCEPT 565A SETS — CONNECTIONS TO CODE AND SELECTIVE SIGNALING SYSTEMS

TABLE 14.12

- (A) To Determine Key Cable Pair, Select Horizontal Block (Under KEY CABLE) with Same Number as Signal Key in Key Telephone Set to Which Buzzer or Code and Selective Signaling Unit Will Be Connected:
- (B) To Determine Terminals, Select Horizontal Block (Under KEY TELEPHONE UNIT) with Same Number as Buzzer Being Installed:
- (C) Connect Cable Conductor (Selected in A) to Terminals (Selected in B):

KEY CABLE					KEY TELEPHONE UNIT		
CONNECTIONS FOR	LEAD DESIG.	PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	to	USE	BUZZER SYS. 201A K.T.U. TERM.
			CONDUCTOR COLOR				
COMMON GRD	GRD	11	O-W(W)	BL(BK)		FOR COMMON GRD	13, 14, 15, or 16
4th BUTTON IN SET	S	6	W(BL-W)	R(BL)		TO OPERATE CODE AND SEL. K.T.U.	1
5th BUTTON IN SET	S	8	W(BL-G)	R(G)		TO OPERATE BUZZER NO.	
6th BUTTON IN SET	S	10	W(BL-S)	R(S)			
						1	2
						2	3
						3	4
						4	5
						5	6
						6	7
						7	8
						8	9
						9	10
						10	11
						11	12

Reference: SD-69203-0125, Fig. 66
 SD-69206-01
 SD-69219-01

TABLE 14.13

KEY CABLE TO KEY TELEPHONE UNITS FOR 565A KEY TELEPHONE SETS — CONNECTIONS TO CODE OR SELECTIVE SIGNALING SYSTEMS

- (A) To Determine Key Cable Pair, Select Horizontal Block (Under KEY CABLE) with Same Number as Signal Key in Key Telephone Set to Which Buzzer or Code and Selective Signaling Unit Will Be Connected:
- (B) To Determine Terminals, Select Horizontal Block (Under KEY TELEPHONE UNIT) with Same Number as Buzzer Being Installed:
- (C) Connect Cable Conductor (Selected in A) to Terminals (Selected in B):

KEY CABLE					KEY TELEPHONE UNIT	
CONNECTIONS FOR	LEAD DESIG.	PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	BUZZER NO.	BUZZER SYS. 201A K.T.U. TERM.
			CONDUCTOR COLOR			
COMMON GRD	GRD	11	O-W(W)	BL(BK)	—	13, 14, 15, or 16
4th BUTTON IN SET	S	9	BL-BR(W)	BR(R)	1	2
					2	3
					3	4
					4	5
5th BUTTON IN SET	S	9	W(BL-BR)	R(BR)	5	6
					6	7
					7	8
					8	9
					9	10
6th BUTTON IN SET	S	10	BL-S(W)	S(R)	10	11
					11	12
					12	1

Reference: SD-69203-0125, Fig. 66
SD-69219-01

KEY CABLE TO KEY TELEPHONE UNITS FOR 565A KEY TELEPHONE SETS — CONNECTIONS TO CODE AND SELECTIVE SIGNALING SYSTEMS

TABLE 14.14

- (A) To Determine Key Cable Pair, Select Horizontal Block (Under KEY CABLE) with Same Number as Signal Key in Key Telephone Set to Which Buzzer or Code and Selective Signaling Unit Will Be Connected:
- (B) To Determine Terminals, Select Horizontal Block (Under KEY TELEPHONE UNIT) with Same Number as Buzzer Being Installed:
- (C) Connect Cable Conductor (Selected in A) to Terminals (Selected in B):

KEY CABLE					KEY TELEPHONE UNIT		
CONNECTIONS FOR	LEAD DESIG.	PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	to	USE	BUZZER SYS. 201A K.T.U. TERM.
			CONDUCTOR COLOR				
COMMON GRD	GRD	11	O-W(W)	BL(BK)	to	FOR COMMON GRD	13, 14, 15, or 16
4th BUTTON IN SET	S	9	BL-BR(W)	BR(R)		TO OPERATE CODE AND SEL. K.T.U.	1
5th BUTTON IN SET	S	9	W(BL-BR)	R(BR)		TO OPERATE BUZZER NO.	
6th BUTTON IN SET	S	10	BL-S(W)	S(R)			
						1	2
						2	3
						3	4
						4	5
						5	6
						6	7
						7	8
						8	9
						9	10
						10	11
						11	12

Reference: SD-69203-0125, Fig. 66
SD-69219-01

TABLE 14.15

KEY CABLE TO KEY TELEPHONE UNITS—EXTERNAL SIGNALING KEYS — CABLE NOT ARRANGED TO PERMIT AMPLIFICATION OF TALKING CIRCUITS WITHOUT POSSIBLE BUZZER INTERFERENCE

Connect Key Cable Pairs to Key Telephone Units as Shown Below:

LEAD DESIG.	EXTERNAL SIG. KEY LEAD NO.	KEY CABLE			BUZZER SYS. 201A K.T.U. TERM.
		PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
			CONDUCTOR COLOR		
GRD	—		O	O	13, 14, 15, or 16
S	1	22	R	V	1
S	2		G	G	2
S	3	23	R	V	3
S	4		BR	BR	4
S	5	24	R	V	5
S	6		S	S	6
S	7	25	R	V	7
S	8		BL-W	BL-W	8
S	9	26	R	W	9
S	10		BL-O	O-W	10
S	11	27	R	W	11
S	12	28	BL-G(R)	G-W(W)	12

Reference: SD-69203-0125, Fig. 66

TABLE 14.16

KEY CABLE TO KEY TELEPHONE UNITS — EXTERNAL SIGNALING KEYS — CABLE ARRANGED TO PERMIT AMPLIFICATION OF TALKING CIRCUITS WITHOUT POSSIBLE BUZZER INTERFERENCE

Connect Key Cable Pairs to Key Telephone Units as Shown Below:

LEAD DESIG.	EXTERNAL SIG. KEY LEAD NO.	KEY CABLE			BUZZER SYS. 201A K.T.U. TERM.
		PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
			CONDUCTOR COLOR		
GRD S	1	22	O R	O V	13 1
GRD S	2	23	G R	G V	13 2
GRD S	3	24	BR R	BR V	13 3
GRD S	4	25	S R	S V	14 4
GRD S	5	26	BL-W R	BL-W W	14 5
GRD S	6	27	BL-O R	O-W W	14 6
GRD S	7	28	BL-G R	G-W W	15 7
GRD S	8	29	BL-BR R	BR-W W	15 8
GRD S	9	30	BL-S R	S-W W	15 9
GRD S	10	31	O-W R	BL-W R	16 10
GRD S	11	32	O-G R	O-W R	16 11
GRD S	12	33	O-BR R	G-W R	16 12

Reference: SD-69203-0125, Fig. 66

TABLE 14.17

RUNNING CABLE TO KEY TELEPHONE UNITS—CODE OR SELECTIVE SIGNALING SYSTEMS — CABLE NOT ARRANGED TO PERMIT AMPLIFICATION OF TALKING CIRCUITS WITHOUT POSSIBLE BUZZER INTERFERENCE

Connect Key Cable Pairs to Key Telephone Units as Shown Below:

BUZZER NO.	LEAD DESIG.	RUNNING CABLE			BUZZER SYS. 201A K.T.U. TERM.
		PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
			CONDUCTOR COLOR		
—	GRD R1	22	O R	O V	13, 14, 15, or 16 17, 18, 19, or 20
1	S B1	23	G R	G V	2 2
2	S B1	24	BR R	BR V	3 3
3	S B1	25	S R	S V	4 4
4	S B1	26	BL-W R	BL-W W	5 5
5	S B1	27	BL-O R	O-W W	6 6
6	S B1	28	BL-G R	G-W W	7 7
7	S B1	29	BL-BR R	BR-W W	8 8
8	S B1	30	BL-S R	S-W W	9 9
9	S B1	31	O-W R	BL-W R	10 10
10	S B1	32	O-G R	O-W R	11 11
11	S B1	33	O-BR R	G-W R	12 12
12	S B1	34	O-S R	BR-W R	1 1

Reference: SD-69203-0125, Fig. 66

RUNNING CABLE TO KEY TELEPHONE UNITS — CODE OR SELECTIVE SIGNALING SYSTEMS — CABLE ARRANGED TO PERMIT AMPLIFICATION OF TALKING CIRCUITS WITHOUT POSSIBLE BUZZER INTERFERENCE

TABLE 14.18

Connect Key Cable Pairs to Key Telephone Units as Shown Below:

BUZZER NO.	LEAD DESIG.	RUNNING CABLE			BUZZER SYS. 201A K.T.U. TERM.
		PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
			CONDUCTOR COLOR		
1	GRD S	22	O R	O V	13 2
	B1 R1	23	G R	G V	2 17
2	GRD S	24	BR R	BR V	13 3
	B1 R1	25	S R	S V	3 17
3	GRD S	26	BL-W R	BL-W W	13 4
	B1 R1	27	BL-O R	O-W W	4 17
4	GRD S	28	BL-G R	G-W W	14 5
	B1 R1	29	BL-BR R	BR-W W	5 18
5	GRD S	30	BL-S R	S-W W	14 6
	B1 R1	31	O-W R	BL-W R	6 18
6	GRD S	32	O-G R	O-W R	14 7
	B1 R1	33	O-BR R	G-W R	7 18
7	GRD S	34	O-S R	BR-W R	15 8
	B1 R1	35	G-W R	S-W R	8 19
8	GRD S	36	G-BR R	BL-W BK	15 9
	B1 R1	37	G-S R	O-W BK	9 19
9	GRD S	38	BR-W R	G-W BK	15 10
	B1 R1	39	BR-S R	BR-W BK	10 19
10	GRD S	40	S-W R	S-W BK	16 11
	B1 R1	41	BL BK	BL-W Y	11 20
11	GRD S	42	O BK	O-W Y	16 12
	B1 R1	43	G BK	G-W Y	12 20
12	GRD S	44	BR BK	BR-W Y	16 1
	B1 R1	45	S BK	S-W Y	1 20

TABLE 14.19

RUNNING CABLE TO KEY TELEPHONE UNITS — CODE AND SELECTIVE SIGNALING SYSTEMS — CABLE NOT ARRANGED TO PERMIT AMPLIFICATION OF TALKING CIRCUITS WITHOUT POSSIBLE BUZZER INTERFERENCE

Connect Key Cable Pairs to Telephone Units as Shown Below:

EQUIP.	LEAD DESIG.	RUNNING CABLE			BUZZER SYS. 201A K.T.U. TERM.
		PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
			CONDUCTOR COLOR		
—	GRD R1	22	O R	O V	13, 14, 15, or 16 17, 18, 19, or 20
CODE SIG. K.T.U.	S SPARE	23	G R	G V	1 —
BUZZER NO.	S B1	24	BR R	BR V	2 2
2	S B1	25	S R	S V	3 3
3	S B1	26	BL-W R	BL-W W	4 4
4	S B1	27	BL-O R	O-W W	5 5
5	S B1	28	BL-G R	G-W W	6 6
6	S B1	29	BL-BR R	BR-W W	7 7
7	S B1	30	BL-S R	S-W W	8 8
8	S B1	31	O-W R	BL-W R	9 9
9	S B1	32	O-G R	O-W R	10 10
10	S B1	33	O-BR R	G-W R	11 11
11	S B1	34	O-S R	BR-W R	12 12

Reference: SD-69203-0125, Fig. 66

RUNNING CABLE TO KEY TELEPHONE UNITS — CODE AND SELECTIVE SIGNALING SYSTEMS — CABLE ARRANGED TO PERMIT AMPLIFICATION OF TALKING CIRCUITS WITHOUT POSSIBLE BUZZER INTERFERENCE

TABLE 14.20

Connect Key Cable Pairs to Key Telephone Units as Shown Below:

EQUIP.	LEAD DESIG.	RUNNING CABLE			BUZZER SYS. 201A K.T.U. TERM.
		PAIR NO.	"C" INSIDE WIRING	"D" INSIDE WIRING	
			CONDUCTOR COLOR		
CODE SIG. K.T.U.	GRD	22	O	O	16
	S		R	V	1
	SPARE	23	G	G	—
	SPARE		R	V	—
BUZZER NO. 1	GRD	24	BR	BR	13
	S		R	V	2
	B1	25	S	S	2
	R1		R	V	17
2	GRD	26	BL-W	BL-W	13
	S		R	W	3
	B1	27	BL-O	O-W	3
	R1		R	W	17
3	GRD	28	BL-G	G-W	13
	S		R	W	4
	B1	29	BL-BR	BR-W	4
	R1		R	W	17
4	GRD	30	BL-S	S-W	14
	S		R	W	5
	B1	31	O-W	BL-W	5
	R1		R	R	18
5	GRD	32	O-G	O-W	14
	S		R	R	6
	B1	33	O-BR	G-W	6
	R1		R	R	18
6	GRD	34	O-S	BR-W	14
	S		R	R	7
	B1	35	G-W	S-W	7
	R1		R	R	18
7	GRD	36	G-BR	BL-W	15
	S		R	BK	8
	B1	37	G-S	O-W	8
	R1		R	BK	19
8	GRD	38	BR-W	G-W	15
	S		R	BK	9
	B1	39	BR-S	BR-W	9
	R1		R	BK	19
9	GRD	40	S-W	S-W	15
	S		R	BK	10
	B1	41	BL	BL-W	10
	R1		BK	Y	19
10	GRD	42	O	O-W	16
	S		BK	Y	11
	B1	43	G	G-W	11
	R1		BK	Y	20
11	GRD	44	BR	BR-W	16
	S		BK	Y	12
	B1	45	S	S-W	12
	R1		BK	Y	20