

## TELEPHONE SETS—1565HK

### CONNECTIONS

#### 1. GENERAL

- 1.01** This section contains connection information on the 1565HK telephone set when used with 1A, 1A1, 1A2, or 6A key telephone systems.
- 1.02** This section is reissued to show new switch-hook lead colors.
- 1.03** The 1565HK telephone set is the TOUCH-TONE version of the 565HK rotary dial telephone set.
- 1.04** A 3A speakerphone system can be used with the 1565HK telephone set. If speakerphone control unit is located near the telephone set, the mounting cord conductors can be extended to the control unit by using a 148A or 149A adapter. If control unit is located at the key equipment, extend leads through an A25B connector cable.
- 1.05** Cord tip insulators on the 148A adapter must be removed to terminate conductors.



*Do not pull insulators off with long-nose pliers. Cut insulators off with electrician scissors or diagonal pliers to prevent breaking conductors or stripping off cord tips.*

#### 2. OPTIONAL EQUIPMENT

- 2.01** A P-25E962 auxiliary terminal strip is available for auxiliary services such as buzzers, lamps, etc. It must be ordered separately. See appropriate section for installation of terminal strip.
- 2.02** A D-179935 kit of parts can be installed in the 1565HK set when the exclusion feature is required. It must be ordered separately. For installation information, see appropriate installation section.

- 2.03** The hold key position can be illuminated, but lamp is not furnished with set.
- 2.04** The 1565HK telephone set is factory wired for use with 1A1 or 1A2 key telephone systems. For 1A key telephone systems make internal wiring changes as shown in Table A and Fig. 2.
- 2.05** The red and black ringer leads are factory wired to terminals RR and RT. The ringer can be connected with several options.

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**TABLE A**  
**1A, 1A1, AND 1A2 CONVERSION**

Key Tel Sys	Station Busy Lamp Circuit	Leads					KS-15724, L1 Diode
		Switch			Hold Key		
		S-W	S-G	S-Y	Y	O-BK	
1A	Without	1B	1B	N	9	M	
1A1 1A2		1B	N	9	M	N	
1A		SG	1	N	9	M	
1A1 1A2	With	1B	1	9	M	N	1 to N

**TABLE B**  
**PICKUP-SIGNAL KEY CONVERSION**

Key Tel Set	Convertible Key Options	Key Leads			
		BR	Y-BR	S-R	BR-BK
1565HK	HPPPPP	M	M	M	X
	HPPPPS	M	M	M	SG
	HPPPSS	M	M	SG	X
	HPPSSS	X	M	SG	X
	HPPP*P*S*	X	M	5H	SG
	HPP*P*P*S*	X	X	5H	SG

Note: For signal key conversion, see Notes 6 and 7, Fig. 1.

\* See Note 3, Fig. 1.

**TABLE C – RINGER OR BUZZER CONNECTIONS**

Option		Leads					
		Ringer				Buzzer	
		R	BK	S	S-R	R	BK
Bridged Ringer on Any Line		R*	T*	K	A		
Common or Private Line Ringer or Buzzer (see Note 2)	With Capacitor	RR†	RT	K	A		
	Without Capacitor	RR†	RT	A	A	RR	RT
Ringer Permanently Silenced		A	K	K	A		

\* Terminal of line involved.

† RR terminal on terminal strip.

TABLE D

RINGER OR BUZZER CUTOFF BY EXCLUSION KEY

Cutoff		Leads									
		Ringer				Buzzer		Exclusion Key			
		R	BK	S	S-R	R	BK	BL-W	W-BL	O-W	W-O
Bridged Ringer on Any Line		ER	ET	K	A			R*	T*	EB	EH
Common or Private Line Ringer or Buzzer	With Capacitor	ER	ET	K	A			RR†	RT	EB	EH
	Without Capacitor	ER	ET	A	A	ER	ET	RR†	RT	EB	EH

\* Terminal of line involved.

† RR terminal on terminal strip.

TABLE E

CONNECTIONS FOR LINE EXCLUSION KEY

Exclusion	Key Tel Sys	Exclusion Key Leads							
		BL-W	W-BL	O-W	W-O	V-BL	BL-V	V-O	O-V
On Any Line	1A	R*	T*	1B†	H*	ET	ER	EH	EB
	1A1 or 1A2	R*	T*	EB	H*	ET	ER	EH	EB

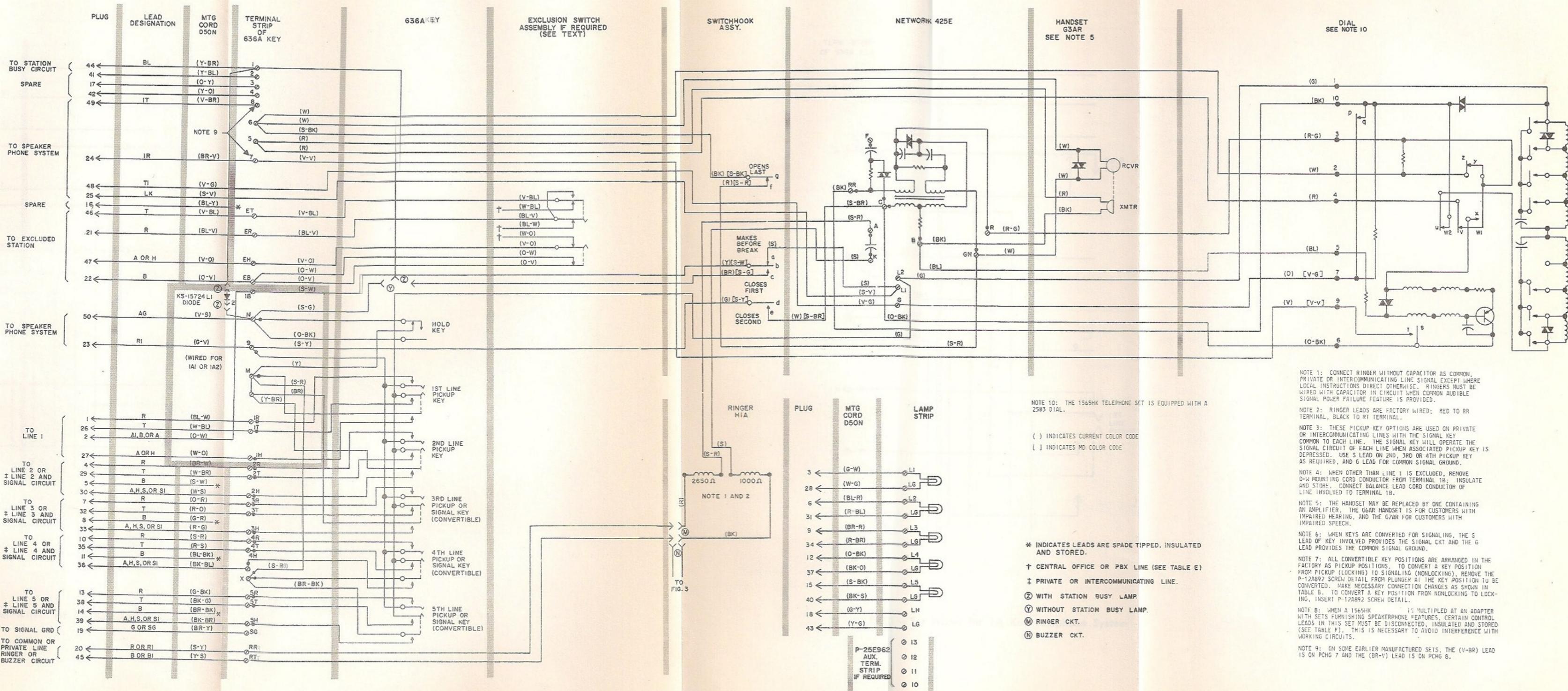
\* Terminal of line involved.

† See Note 4, Fig. 1.

TABLE F

PROCEDURE FOR DISCONNECTING SPEAKERPHONE FEATURES  
(NOTE 8, FIG. 1)

Lead Desig	Cord Color	Remove From	
	Speakerphone	Network	Terminal Strip
T1	V-G	G	
R1	G-V		9
IT	V-BR		8
IR	BR-V		7
AG	V-S		N
LK	S-V	L1	



NOTE 1: CONNECT RINGER WITHOUT CAPACITOR AS COMMON, PRIVATE OR INTERCOMMUNICATING LINE SIGNAL EXCEPT WHERE LOCAL INSTRUCTIONS DIRECT OTHERWISE. RINGERS MUST BE WIRED WITH CAPACITOR IN CIRCUIT WHEN COMMON AUDIBLE SIGNAL POWER FAILURE FEATURE IS PROVIDED.

NOTE 2: RINGER LEADS ARE FACTORY WIRED; RED TO RR TERMINAL, BLACK TO RT TERMINAL.

NOTE 3: THESE PICKUP KEY OPTIONS ARE USED ON PRIVATE OR INTERCOMMUNICATING LINES WITH THE SIGNAL KEY COMMON TO EACH LINE. THE SIGNAL KEY WILL OPERATE THE SIGNAL CIRCUIT OF EACH LINE WHEN ASSOCIATED PICKUP KEY IS DEPRESSED. USE S LEAD ON 2ND, 3RD OR 4TH PICKUP KEY AS REQUIRED, AND G LEAD FOR COMMON SIGNAL GROUND.

NOTE 4: WHEN OTHER THAN LINE 1 IS EXCLUDED, REMOVE D-W MOUNTING CORD CONDUCTOR FROM TERMINAL 1B; INSULATE AND STORE. CONNECT BALANCE LEAD CORD CONDUCTOR OF LINE INVOLVED TO TERMINAL 1B.

NOTE 5: THE HANDSET MAY BE REPLACED BY ONE CONTAINING AN AMPLIFIER. THE GEAR HANDSET IS FOR CUSTOMERS WITH IMPAIRED HEARING, AND THE G/AR FOR CUSTOMERS WITH IMPAIRED SPEECH.

NOTE 6: WHEN KEYS ARE CONVERTED FOR SIGNALING, THE S LEAD OF KEY INVOLVED PROVIDES THE SIGNAL CKT AND THE G LEAD PROVIDES THE COMMON SIGNAL GROUND.

NOTE 7: ALL CONVERTIBLE KEY POSITIONS ARE ARRANGED IN THE FACTORY AS PICKUP POSITIONS. TO CONVERT A KEY POSITION FROM PICKUP (LOCKING) TO SIGNALING (NONLOCKING), REMOVE THE P-12A892 SCREW DETAIL FROM PLUNGER AT THE KEY POSITION TO BE CONVERTED. MAKE NECESSARY CONNECTION CHANGES AS SHOWN IN TABLE B. TO CONVERT A KEY POSITION FROM NONLOCKING TO LOCKING, INSERT P-12A892 SCREW DETAIL.

NOTE 8: WHEN A 1565HK IS MULTIPLIED BY AN ADAPTER WITH SETS FURNISHING SPEAKERPHONE FEATURES, CERTAIN CONTROL LEADS IN THIS SET MUST BE DISCONNECTED, INSULATED AND STORED (SEE TABLE F). THIS IS NECESSARY TO AVOID INTERFERENCE WITH WORKING CIRCUITS.

NOTE 9: ON SOME EARLIER MANUFACTURED SETS, THE (V-BR) LEAD IS ON PCHG 7 AND THE (BR-V) LEAD IS ON PCHG 8.

NOTE 10: THE 1565HK TELEPHONE SET IS EQUIPPED WITH A 2583 DIAL.

( ) INDICATES CURRENT COLOR CODE  
 [ ] INDICATES MO COLOR CODE

\* INDICATES LEADS ARE SPADE TIPPED, INSULATED AND STORED.  
 † CENTRAL OFFICE OR PBX LINE (SEE TABLE E)  
 ‡ PRIVATE OR INTERCOMMUNICATING LINE.  
 Ⓢ WITH STATION BUSY LAMP.  
 Ⓣ WITHOUT STATION BUSY LAMP.  
 Ⓜ RINGER CKT.  
 Ⓝ BUZZER CKT.

Fig. 1 - 1565HK Telephone Set, Connections

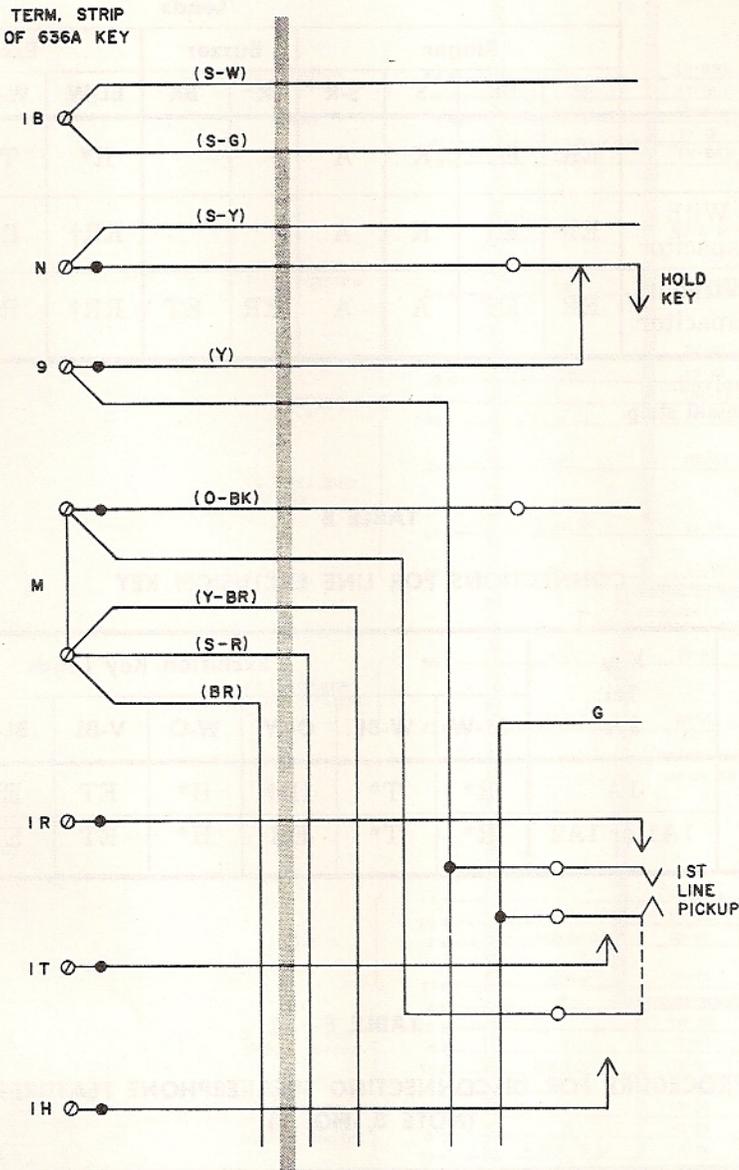


Fig. 2 - Set Wired for 1A Key Telephone System

TABLE G

## CONDUCTOR ASSIGNMENTS USING 66E-TYPE CONNECTING BLOCK

66E-Type Connecting Block						Mounting Cord	
Connector Cable Pair No.	Block No.	Clip Terminal No.	Conductor Color	Pin No.	Lead Desig	Cord Conductor	Tel Set Terminal
1	1	1	W-BL	26	T	W-BL	1T
		2	BL-W	1	R	BL-W	1R
2		3	W-O	27	A or H	W-O	1H
		4	O-W	2	A1, B, or A	O-W	1B
3		5	W-G	28	LG	W-G	LG
		6	G-W	3	L1	G-W	L1
4		7	W-BR	29	T	W-BR	2T
		8	BR-W	4	R	BR-W	2R
5		9	W-S	30	A, H, S, or S1	W-S	2H
		10	S-W	5	B	S-W	*
6	2	11	R-BL	31	LG	R-BL	LG
		12	BL-R	6	L2	BL-R	L2
7		13	R-O	32	T	R-O	3T
		14	O-R	7	R	O-R	3R
8		15	R-G	33	A, H, S, or S1	R-G	3H
		16	G-R	8	B	G-R	*
9		17	R-BR	34	LG	R-BR	LG
		18	BR-R	9	L3	BR-R	L3
10		19	R-S	35	T	R-S	4T
		20	S-R	10	R	S-R	4R
11	3	21	BK-BL	36	A, H, S, or S1	BK-BL	4H
		22	BL-BK	11	B	BL-BK	*
12		23	BK-O	37	LG	BK-O	LG
		24	O-BK	12	L4	O-BK	L4
13		25	BK-G	38	T	BK-G	5T
		26	G-BK	13	R	G-BK	5R
14		27	BK-BR	39	A, H, S, or S1	BK-BR	5H
		28	BR-BK	14	B	BR-BK	*
15		29	BK-S	40	LG	BK-S	LG
		30	S-BK	15	L5	S-BK	L5
16	4	31	Y-BL	41	Spare	Y-BL	2
		32	BL-Y	16	Spare	BL-Y	*
17		33	Y-O	42	Spare	Y-O	4
		34	O-Y	17	Spare	O-Y	3
18		35	Y-G	43	HG	Y-G	HG
		36	G-Y	18	HL	G-Y	HL
19		37	Y-BR	44	BL	Y-BR	1
		38	BR-Y	19	G or SG	BR-Y	SG
20		39	Y-S	45	B or B1	Y-S	RT
		40	S-Y	20	R or R1	S-Y	RR
21	5	41	V-BL	46	T	V-BL	ET
		42	BL-V	21	R	BL-V	ER
22		43	V-O	47	A or H	V-O	EH
		44	O-V	22	B	O-V	EB
23		45	V-G	48	T1 †	V-G	G on Net.
		46	G-V	23	R1 †	G-V	9
24		47	V-BR	49	IT †	V-BR	8
		48	BR-V	24	IR †	BR-V	7
25		49	V-S	50	AG †	V-S	N
		50	S-V	25	LK †	S-V	L1 on Net.

\* Spade tipped, insulated, and stored.

† Speakerphone leads.

TABLE H

## CONNECTOR CABLE AND CORD CONDUCTOR ASSIGNMENTS

A25B Connector Cable				Mounting Cord	
Pair No.	Conductor Color	Pin No.	Lead Desig	Conductor Color	Tel Set Terminal
1	W-BL	26	T	W-BL	1T
	BL-W	1	R	BL-W	1R
2	W-O	27	A or H	W-O	1H
	O-W	2	A1, B, or A	O-W	1B
3	W-G	28	LG	W-G	LG
	G-W	3	L1	G-W	L1
4	W-BR	29	T	W-BR	2T
	BR-W	4	R	BR-W	2R
5	W-S	30	A, H, S, or S1	W-S	2H
	S-W	5	B	S-W	*
6	R-BL	31	LG	R-BL	LG
	BL-R	6	L2	BL-R	L2
7	R-O	32	T	R-O	3T
	O-R	7	R	O-R	3R
8	R-G	33	A, H, S, or S1	R-G	3H
	G-R	8	B	G-R	*
9	R-BR	34	LG	R-BR	LG
	BR-R	9	L3	BR-R	L3
10	R-S	35	T	R-S	4T
	S-R	10	R	S-R	4R
11	BK-BL	36	A, H, S, or S1	BK-BL	4H
	BL-BK	11	B	BL-BK	*
12	BK-O	37	LG	BK-O	LG
	O-BK	12	L4	O-BK	L4
13	BK-G	38	T	BK-G	5T
	G-BK	13	R	G-BK	5R
14	BK-BR	39	A, H, S, or S1	BK-BR	5H
	BR-BK	14	B	BR-BK	*
15	BK-S	40	LG	BK-S	LG
	S-BK	15	L5	S-BK	L5
16	Y-BL	41	Spare	Y-BL	2
	BL-Y	16	Spare	BL-Y	*
17	Y-O	42	Spare	Y-O	4
	O-Y	17	Spare	O-Y	3
18	Y-G	43	HG	Y-G	HG
	G-Y	18	HL	G-Y	HL
19	Y-BR	44	BL	Y-BR	1
	BR-Y	19	G or SG	BR-Y	SG
20	Y-S	45	B or B1	Y-S	RT
	S-Y	20	R or R1	S-Y	RR
21	V-BL	46	T	V-BL	ET
	BL-V	21	R	BL-V	ER
22	V-O	47	A or H	V-O	EH
	O-V	22	B	O-V	EB
23	V-G	48	T1 †	V-G	G on Net.
	G-V	23	R1 †	G-V	9
24	V-BR	49	IT †	V-BR	8
	BR-V	24	IR †	BR-V	7
25	V-S	50	AG †	V-S	N
	S-V	25	LK †	S-V	L1 on Net.

\* Leads are spade tipped, insulated, and stored.

† Speakerphone leads.

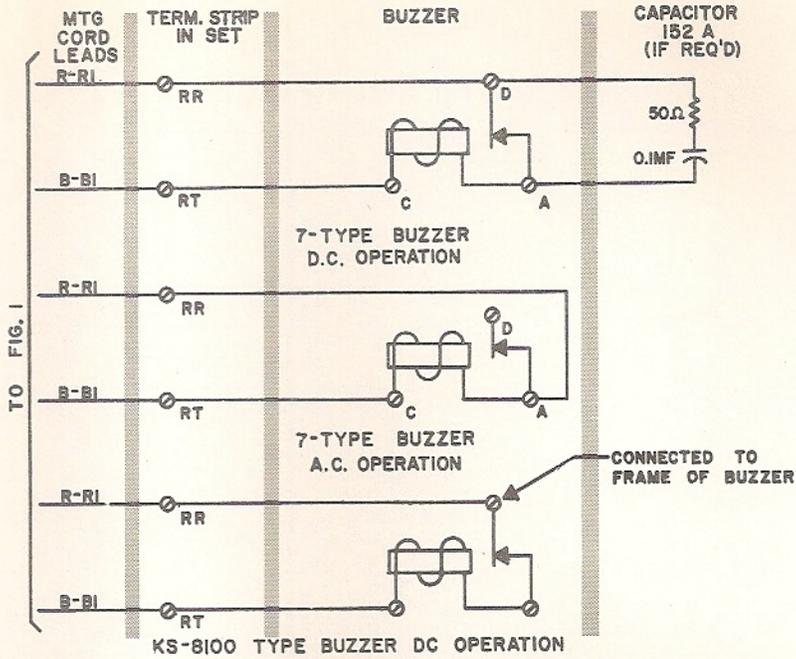


Fig. 3 - Buzzer Connections

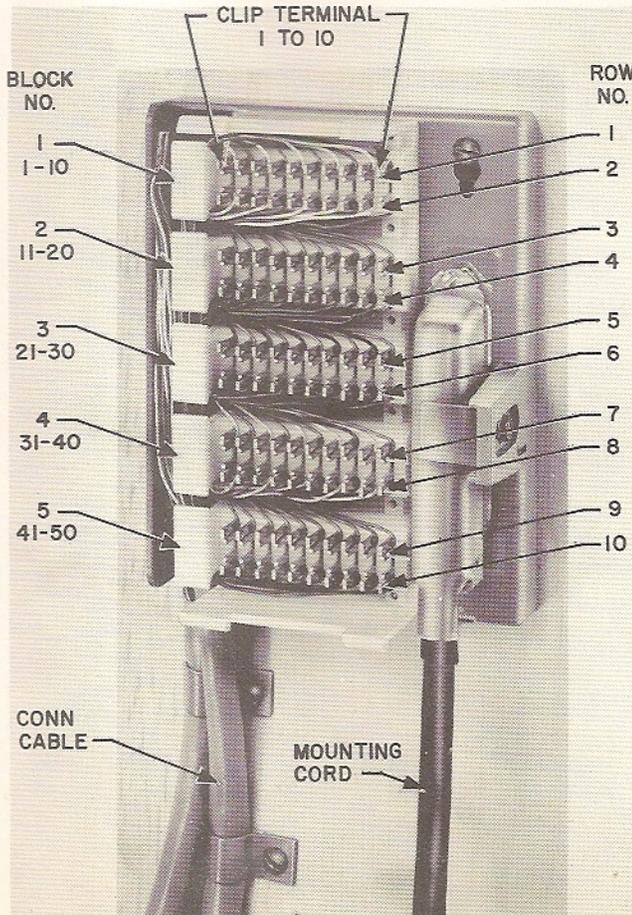


Fig. 4 - Typical 66E-Type Connecting Block