

## TELEPHONE SETS

### 621 TYPE

#### CONNECTIONS

#### 1.00 GENERAL

**1.01** This section covers connections for 621A1 and 621A2 telephone sets. These sets, which are used on 701B PBX systems, enable an attendant to receive and complete calls through connecting circuits.

**1.02** Attendant inserts plug of headset or handset into *C* and *D* jacks to receive calls. *A* and *B* jacks are provided for service assistant's use. Removing headset or handset from *C* and *D* jacks makes the position busy to incoming calls.

**1.03** Illuminated trunk keys provide the attendants with a means of establishing connections between the telephone set and incoming calls. Keys light to indicate trunk seizure or a hold condition. Green trunk lamps are provided to indicate incoming calls, transferred calls, and trunk supervision. White station lamps are provided to indicate busy, ringing, camp-on, and station supervision. All lamps are 51A except calls waiting lamp and RDY lamp which are 2Y lamps.

**1.04** Capacity of the 621A1 telephone set is 10 trunk keys, 10 trunk lamps, and 10 station

lamps. Capacity of the 621A2 telephone set is 20 trunk keys, 20 trunk lamps, and 20 station lamps.

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to 10

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11 to 20

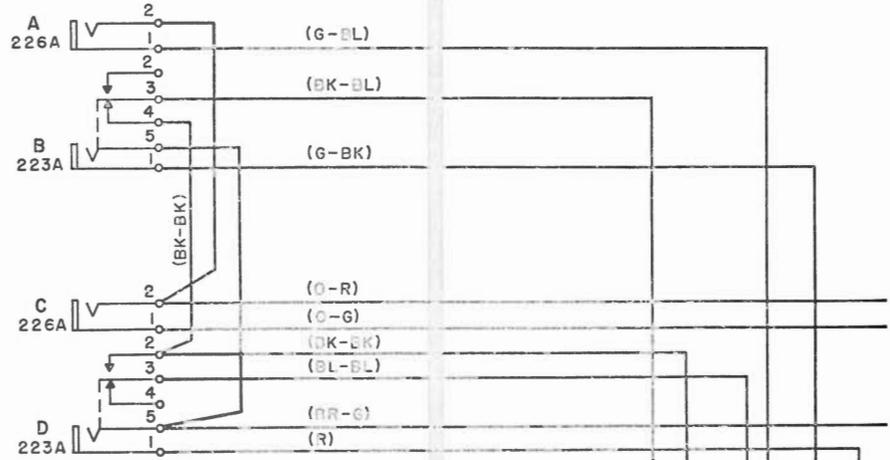
Fig. 8 — Trunk Lamps and Station Lamps  
11 to 20

Table A — Connections for 621A Telephone  
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Table B — Connections for 621A Telephone  
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nector Cable

Table C — Connections for 621A Telephone  
Set, Green Served Unit of Con-  
nector Cable

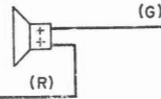
JACKS



LAMP  
CALLS WAITING



LOUDSPEAKER  
P-12E987

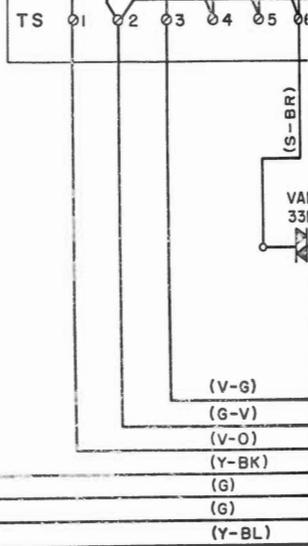


VOLUME  
CONTROL  
KS-16108

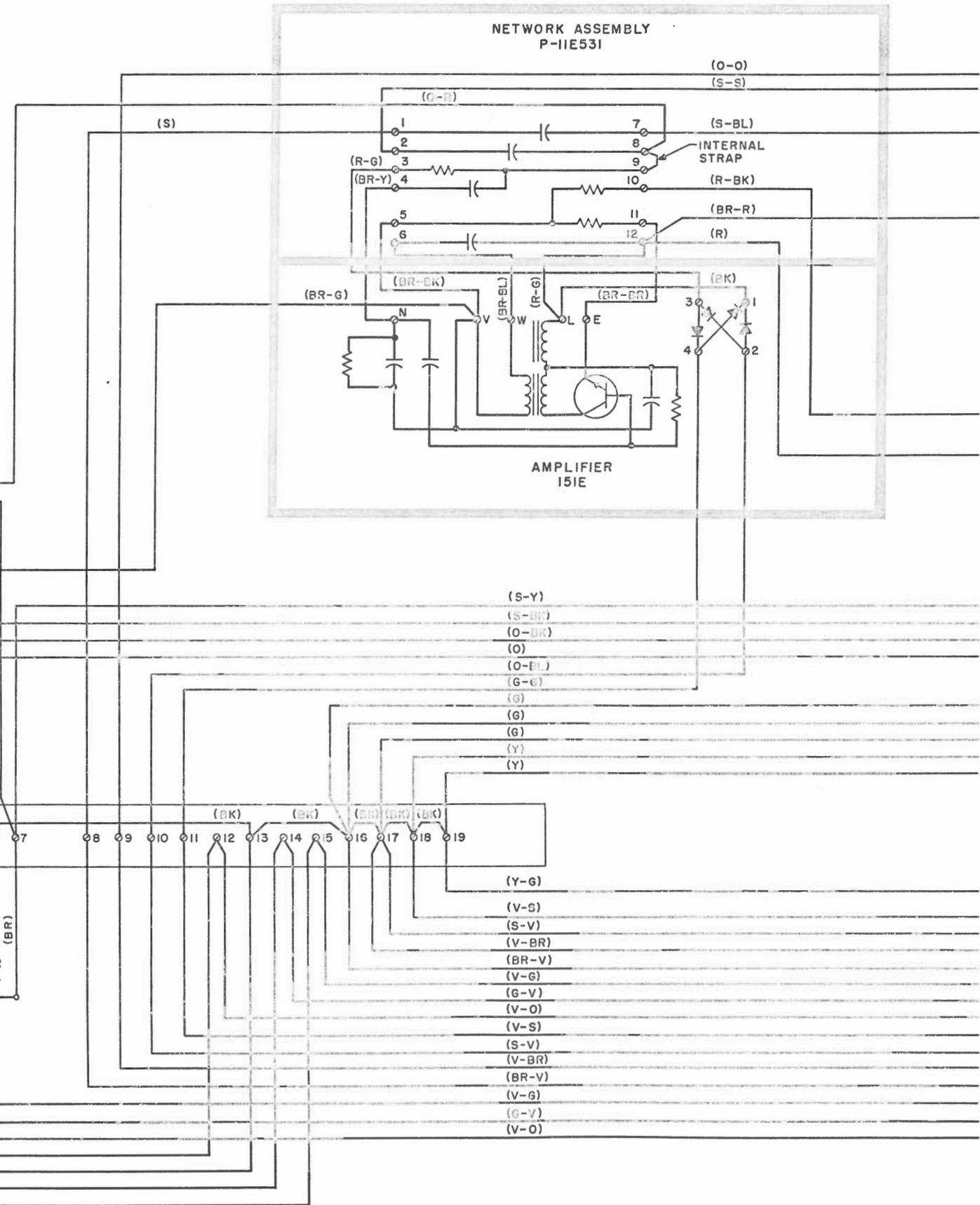


KEY  
AUDIBLE  
SIGNAL

ON OFF



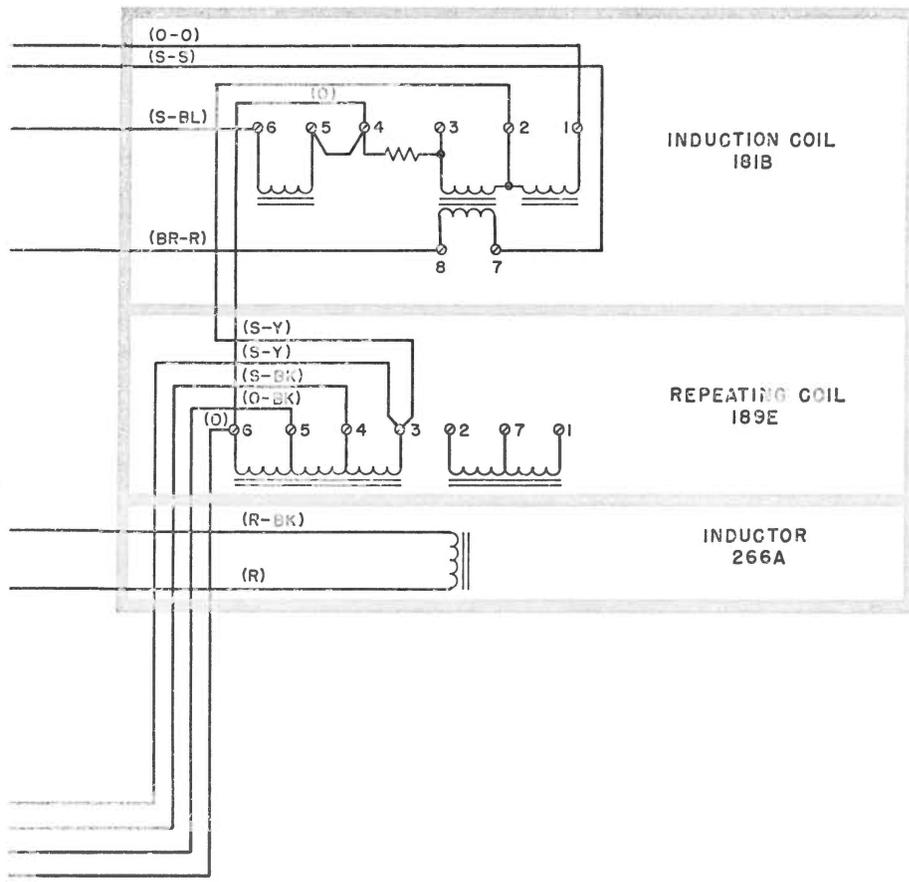
NETWORK ASSEMBLY  
P-11E531



- (S)
- (O-0)
- (S-S)
- (S-BL)
- (R-G)
- (BR-Y)
- (BR-R)
- (R)
- (BR-G)
- (BR-BK)
- (BR-BL)
- (R-G)
- (BR-RR)
- (BK)
- (S-Y)
- (S-BR)
- (O-BR)
- (O)
- (O-BL)
- (G-G)
- (G)
- (G)
- (G)
- (Y)
- (Y)
- (BK)
- (BR)
- (BR)
- (BR)
- (BR)
- (BR)
- (Y-G)
- (V-G)
- (S-V)
- (V-BR)
- (BR-V)
- (V-G)
- (G-V)
- (V-O)
- (V-S)
- (S-V)
- (V-BR)
- (BR-V)
- (V-G)
- (G-V)
- (V-O)

07 08 09 10 11 12 13 14 15 16 17 18 19

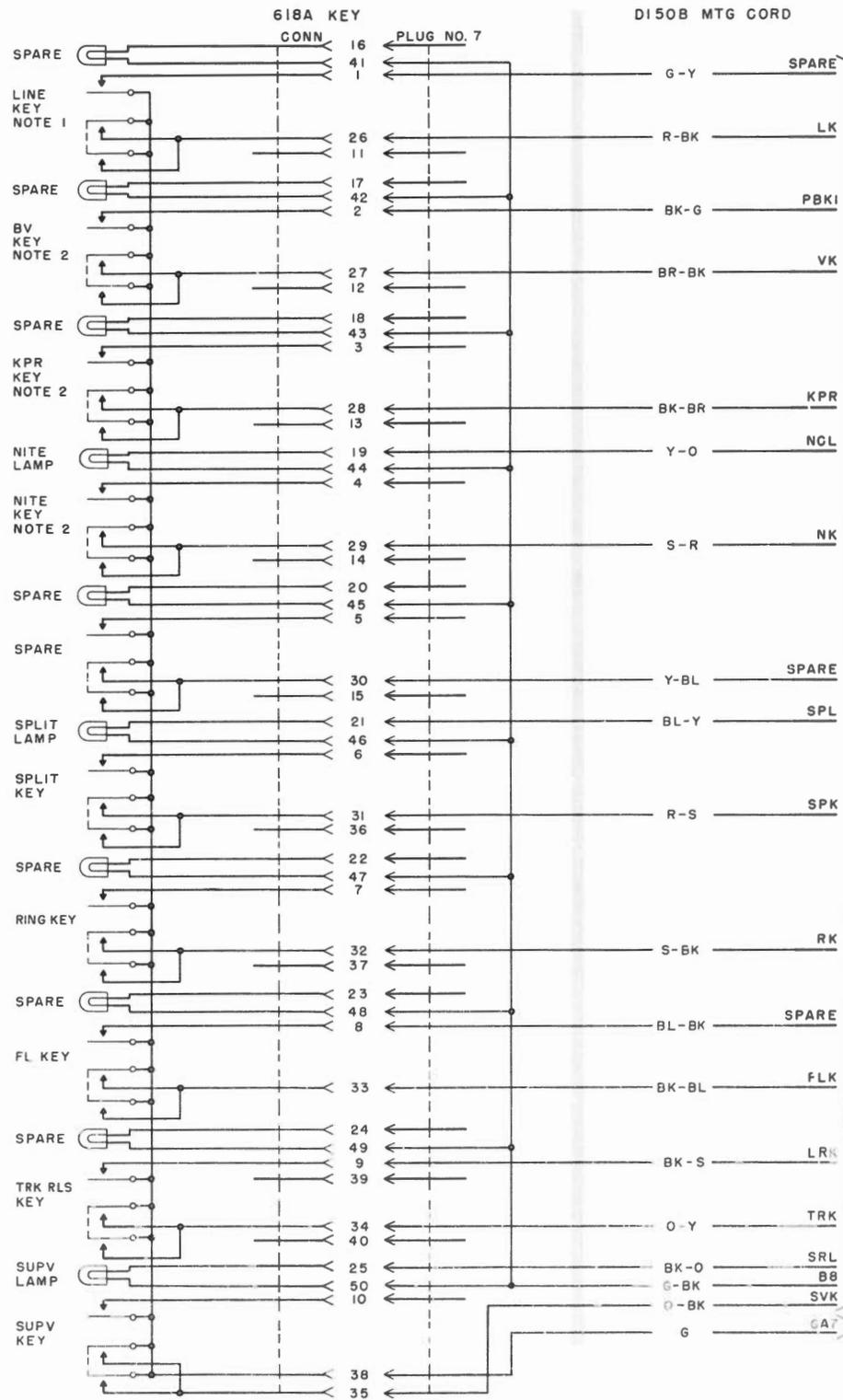
(BR)



(e)	GA7	TO FIG. 2
(g)	GA5	TO FIG. 3
(c)	GA5	TO FIG. 4
(y)	GA1	TO FIG. 8
(v)	GA3	TO FIG. 6

MOUNTING CORD D150B		
(Y-G)	G6	TO TABLE C
(V-S)	G5	}
(S-V)	G4	
(V-BR)	G3	}
(BR-V)	G1	
(V-G)	NA1	}
(G-V)	NA	
(V-O)	L	}
(V-S)	G	
(S-V)	B	}
(V-BR)	T	
(BR-V)	R	TO TABLE A
(V-G)	JK	}
(G-V)	G2	
(V-O)	JK1	

Fig. 1 - Attendant Telephone Circuit



TO TABLE C

FIG. 1

Note 1: Designate on regular position only.

Note 2: Designate on special position only.

Fig. 2 - Miscellaneous Position Keys

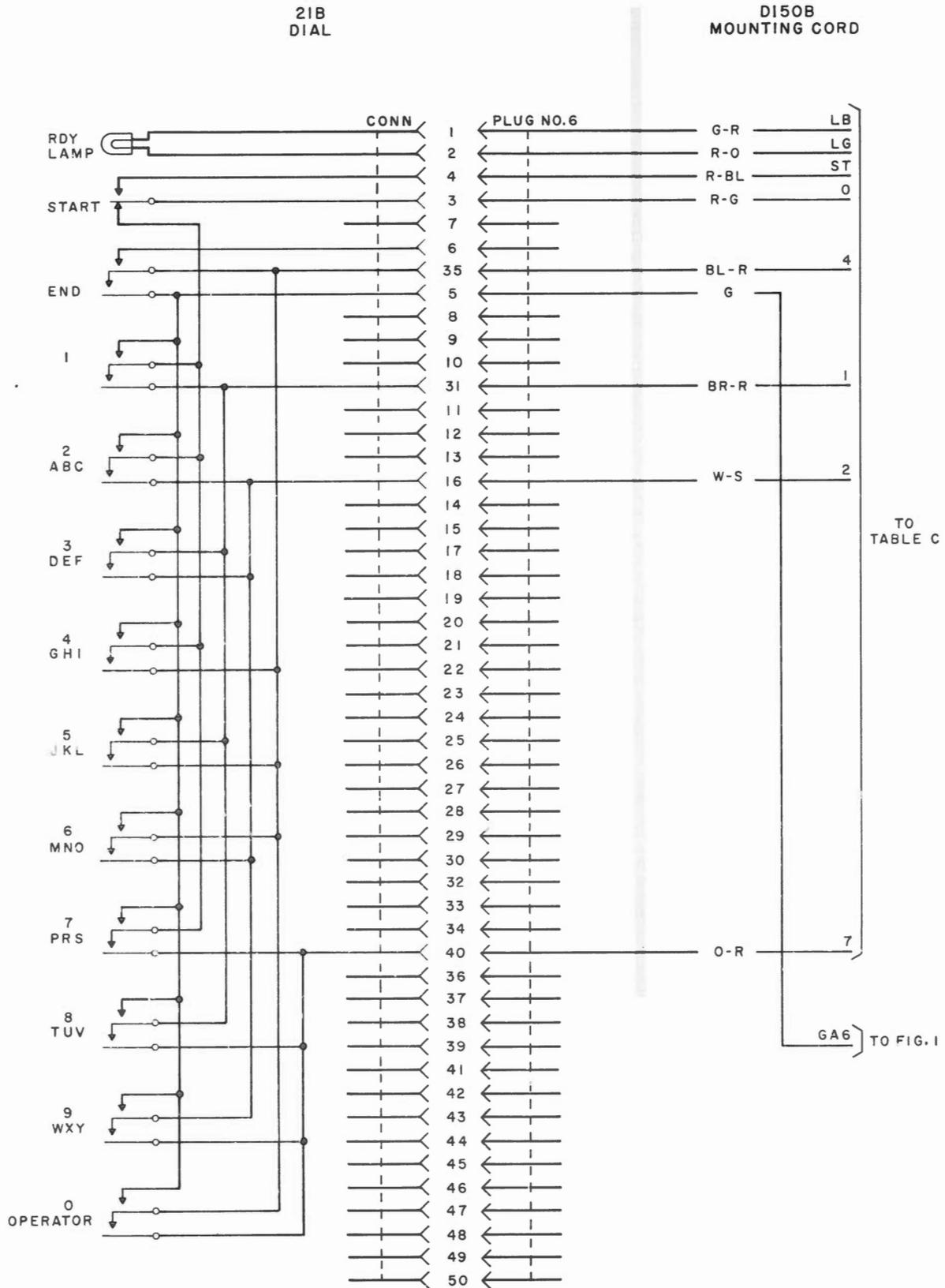


Fig. 3 - Pushbutton Dial

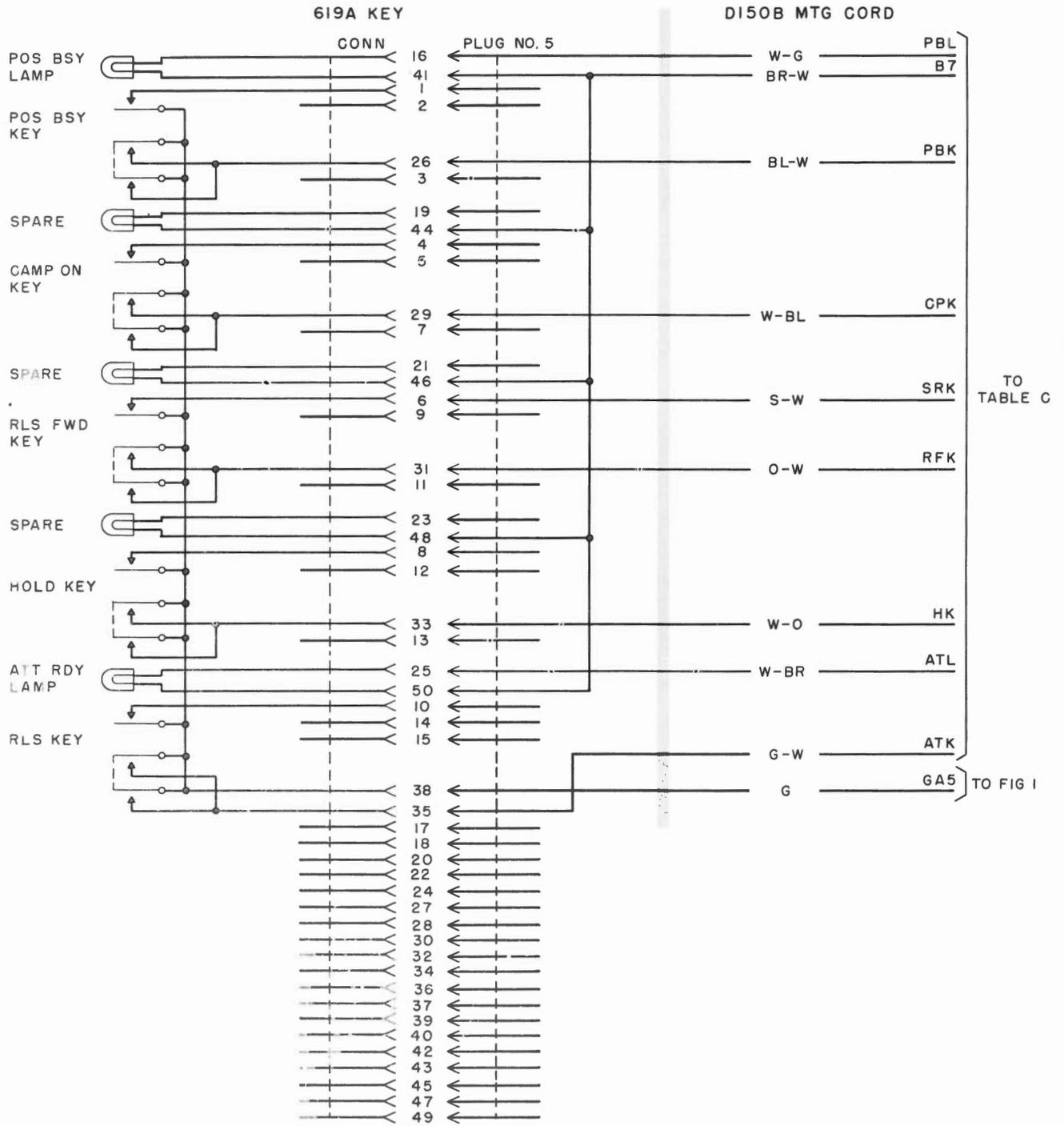


Fig. 4 - Common Position Keys

SECTION C38.656.02

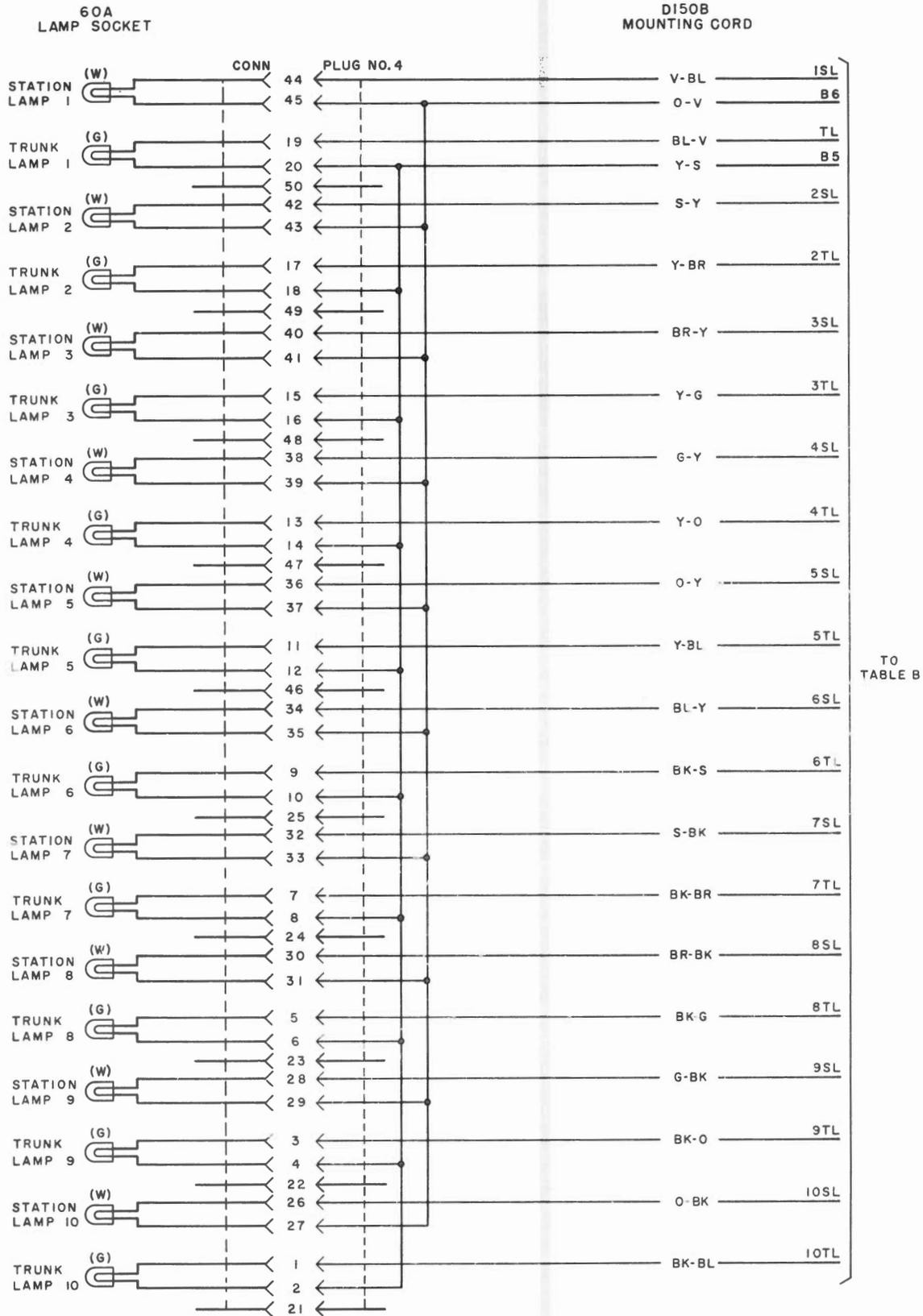


Fig. 5 – Trunk Lamps and Station Lamps 1 to 10

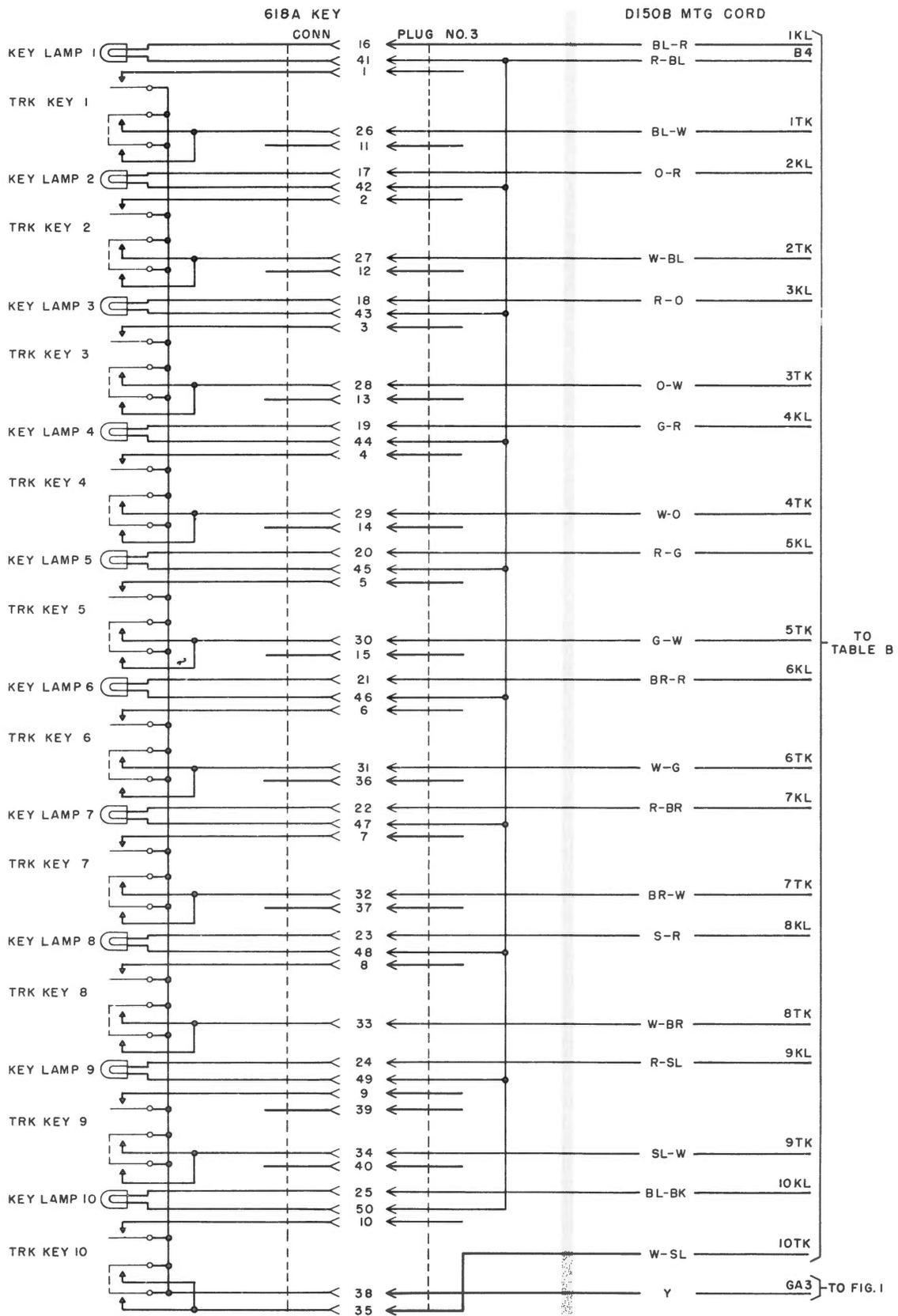


Fig. 6 - Trunk Keys and Key Lamps 1 to 10

SECTION C38.656.02

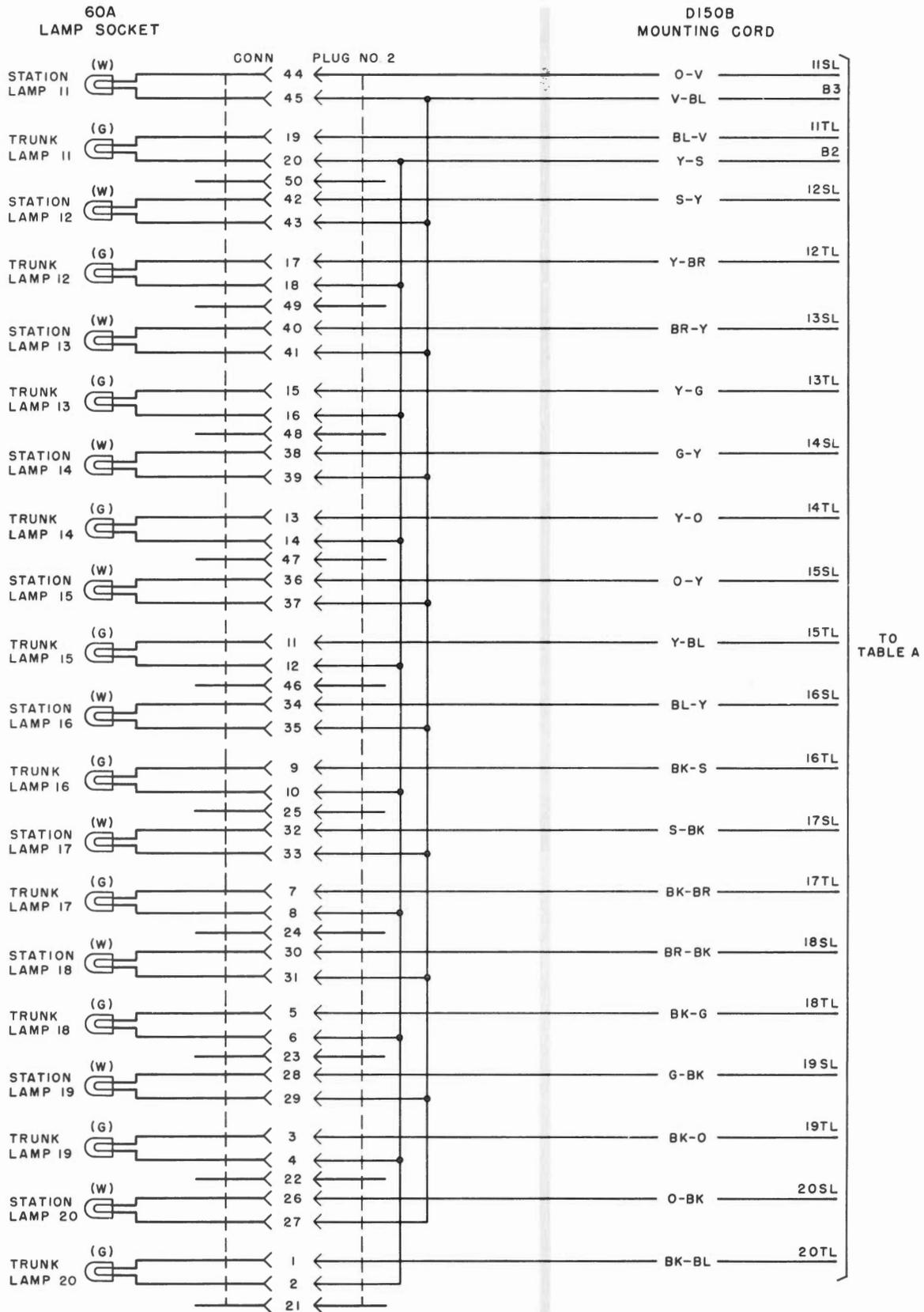


Fig. 7 - Trunk Lamps and Station Lamps 11 to 20

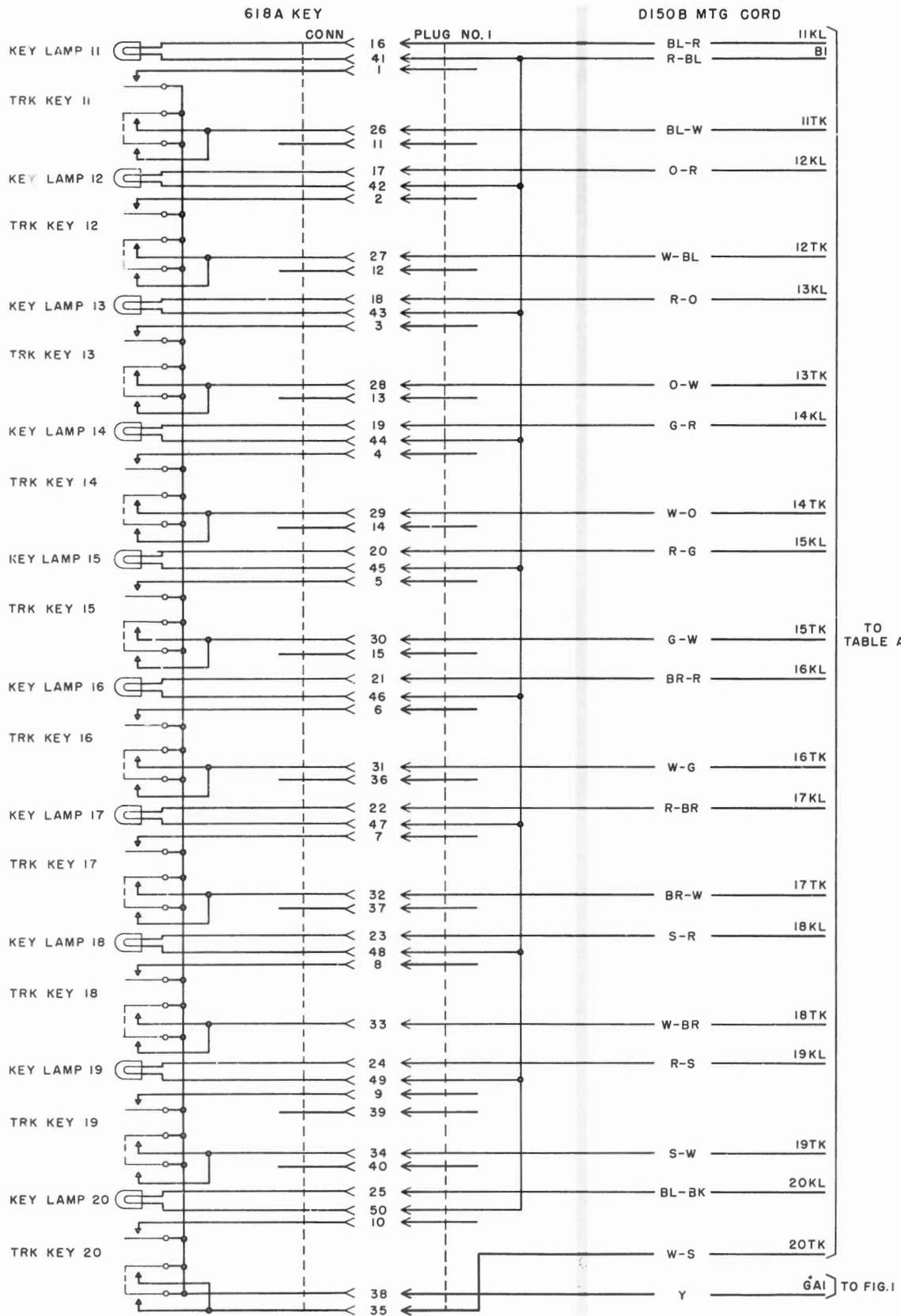


Fig. 8 -- Trunk Keys and Key Lamps 11 to 20

TABLE A

## CONNECTIONS FOR 621A TELEPHONE SET, BLUE SERVED UNIT OF CONNECTOR CABLE

FROM	D150B MOUNTING CORD BLUE SERVED CORD UNIT						A75A CONNECTOR CABLE CONNECTOR NO.1 BLUE SERVED CABLE UNIT			ASSOCIATED WITH	
	TERMINATION IN SET		LEAD DESIG	CORD CONDUCTOR		PIN NUMBER OF CORD PLUG AND CONNECTOR CABLE	CABLE CONDUCTOR		CONNECT TO TERMINAL STRIP IN POSITION CIRCUIT TERMINAL NO.		
	CONNECTION FOR	TERMINAL OR PIN NUMBER		SOLID COLOR	BAND COLOR		SOLID COLOR	BAND COLGR			
8	PLUG 1  TRUNK KEYS AND KEY LAMPS 11 TO 20 (SEE NOTE)	26	11TK	BL	W	1	BL	W	211	TRUNK CIRCUIT OR ATTENDANT LOOP CIRCUIT AS REQUIRED	
		27	12TK	W	BL	26	W	BL	251		
		28	13TK	O	W	2	O	W	242		
		29	14TK	W	O	27	W	O	233		
		30	15TK	G	W	3	G	W	224		
		31	16TK	W	G	28	W	G	215		
		32	17TK	BR	W	4	BR	W	255		
		33	18TK	W	BR	29	W	BR	246		
		34	19TK	S	W	5	S	W	237		
		35	20TK	W	S	30	W	S	228		
		16	11KL	BL	R	6	BL	R	221		
		41	B1	R	BL	31	R	BL	151		FUSE PANEL, BAT. B, +10V SUPPLY
		17	12KL	O	R	7	O	R	212		TRUNK CIRCUIT OR ATTENDANT LOOP CIRCUIT AS REQUIRED
		18	13KL	R	O	32	R	O	252		
		19	14KL	G	R	8	G	R	243		
		20	15KL	R	G	33	R	G	234		
		21	16KL	BR	R	9	BR	R	225		
		22	17KL	R	BR	34	R	BR	216		
		23	18KL	S	R	10	S	R	256		
		24	19KL	R	S	35	R	S	247		
		25	20KL	BL	BK	11	BL	BK	238		
		1	20TL	BK	BL	36	BK	BL	248		
		26	20SL	O	BK	12	O	BK	258		
		3	19TL	BK	O	37	BK	O	257		
		28	19SL	G	BK	13	G	BK	218		
5	18TL	BK	G	38	BK	G	217				
30	18SL	BR	BK	14	BR	BK	227				
7	17TL	BK	BR	39	BK	BR	226				
32	17SL	S	BK	15	S	BK	236				
9	16TL	BK	S	40	BK	S	235				
34	16SL	BL	Y	16	BL	Y	245				
11	15TL	Y	BL	41	Y	BL	244				
36	15SL	O	Y	17	O	Y	254				
13	14TL	Y	O	42	Y	O	253				
38	14SL	G	Y	18	G	Y	214				
15	13TL	Y	G	43	Y	G	213				
40	13SL	BR	Y	19	BR	Y	223				
17	12TL	Y	BR	44	Y	BR	222				
42	12SL	S	Y	20	S	Y	232				
20	B2	Y	S	45	Y	S	151	FUSE PANEL, BAT. B, +10V SUPPLY			
19	11TL	BL	V	21	BL	V	231	TRUNK CIRCUIT OR ATTENDANT LOOP CIRCUIT, AS REQUIRED			
44	11SL	V	BL	46	V	BL	241				
45	B3	O	V	22	O	V	161	FUSE PANEL, BAT. B, +10V SUPPLY			
1	TERMINAL STRIP IN SET	1	JK1	V	O	47	V	O	72	POSITION CIRCUIT	
		2	G2	G	V	23	G	V	113	FUSE PANEL, GROUND B	
		3	JK	V	G	48	V	G	62	POSITION CIRCUIT	
		8	R	BR	V	24	BR	V	104		
		9	T	V	BR	49	V	BR	94		
		10	B	S	V	25	S	V	191		
11	G	V	S	50	V	S	201				

Note: Conductors are spare on 621A1 telephone set.

TABLE B

CONNECTIONS FOR 621A TELEPHONE SET, ORANGE SERVED UNIT OF CONNECTOR CABLE

FROM		D150B MOUNTING CORD ORANGE SERVED CORD UNIT				A75A CONNECTOR CABLE CONNECTOR NO. 2 ORANGE SERVED CABLE UNIT				ASSOCIATED WITH	
FIG. NO.	TERMINATION IN SET		LEAD DESIG	CORD CONDUCTOR		PIN NUMBER OF CORD PLUG AND CONNECTOR CABLE	CABLE CONDUCTOR		CONNECT TO TERMINAL STRIP IN POSITION CIRCUIT TERMINAL NO.		
	CONNECTION FOR	TERMINAL OR PIN NUMBER		SOLID COLOR	BAND COLOR		SOLID COLOR	BAND COLOR			
6	PLUG 3 TRUNK KEYS AND KEY LAMPS 1 TO 10	26	1TK	BL	W	1	BL	W	115	TRUNK CIRCUIT OR ATTENDANT LOOP CIRCUIT, AS REQUIRED	
		27	2TK	W	BL	26	W	BL	155		
		28	3TK	O	W	2	O	W	195		
		29	4TK	W	O	27	W	O	136		
		30	5TK	G	W	3	G	W	176		
		31	6TK	W	G	28	W	G	117		
		32	7TK	BR	W	4	BR	W	157		
		33	8TK	W	BR	29	W	BR	197		
		34	9TK	S	W	5	S	W	138		
		35	10TK	W	S	30	W	S	178		
		16	1KL	BL	R	6	BL	R	125		
		41	B4	R	BL	31	R	BL	161		FUSE PANEL, BAT. B, +10V SUPPLY
		17	2KL	G	R	7	O	R	165		TRUNK CIRCUIT OR ATTENDANT LOOP CIRCUIT, AS REQUIRED
		18	3KL	R	O	32	R	O	205		
		19	4KL	G	R	8	G	R	146		
		20	5KL	R	G	33	R	G	186		
		21	6KL	BR	R	9	BR	R	127		
		22	7KL	R	BR	34	R	BR	167		
		23	8KL	S	R	10	S	R	207		
		24	9KL	R	S	35	R	S	148		
		25	10KL	BL	BK	11	BL	BK	188		
		1	10TL	BK	BL	36	BK	BL	198		
		26	10SL	O	BK	12	O	BK	208		
		3	9TL	BK	O	37	BK	O	158		
		28	9SL	G	BK	13	G	BK	168		
5	8TL	BK	G	38	BK	G	118				
30	8SL	BR	BK	14	BR	BK	128				
7	7TL	BK	BR	39	BK	BR	177				
32	7SL	S	BK	15	S	BK	187				
9	6TL	BK	S	40	BK	S	137				
34	6SL	BL	Y	16	BL	Y	147				
11	5TL	Y	BL	41	Y	BL	196				
36	5SL	O	Y	17	O	Y	206				
13	4TL	Y	O	42	Y	O	156				
38	4SL	G	Y	18	G	Y	166				
15	3TL	Y	G	43	Y	G	116				
40	3SL	BR	Y	19	BR	Y	126				
17	2TL	Y	BR	44	Y	BR	175				
42	2SL	S	Y	20	S	Y	185				
20	B5	Y	S	45	Y	S	171	FUSE PANEL, BAT. B, +10V SUPPLY			
19	1TL	BL	V	21	BL	V	135	TRUNK CIRCUIT OR ATTENDANT LOOP CIRCUIT, AS REQUIRED			
44	1SL	V	BL	46	V	BL	145				
45	B6	O	V	22	O	V	171	FUSE PANEL, BAT. B, +10V SUPPLY			
1	TERMINAL STRIP IN SET	12	L	V	O	47	V	O	64	POSITION CIRCUIT	
		14	NA	G	V	23	G	V	202		
		15	NA1	V	G	48	V	G	82		
		16	G1	BR	V	24	BR	V	123	FUSE PANEL, GROUND A	
		17	G3	V	BR	49	V	BR	192	FUSE PANEL, GROUND B	
		17	G4	S	V	25	S	V	192		
18	G5	V	S	50	V	S	182	FUSE PANEL, GROUND A			

TABLE C

CONNECTIONS FOR 621A TELEPHONE SET, GREEN SERVED UNIT OF CONNECTOR CABLE

FROM		D150B MOUNTING CORD GREEN SERVED CORD UNIT				A75A CONNECTOR CABLE CONNECTOR NO.3 GREEN SERVED CABLE UNIT				ASSOCIATED WITH
FIG. NO.	TERMINATION IN SET CONNECTION FOR	TERMINAL OR PIN NUMBER	LEAD DESIG	CORD CONDUCTOR		PIN NUMBER OF CORD PLUG AND CONNECTOR CABLE	CABLE CONDUCTOR		CONNECT TO TERMINAL STRIP IN POSITION CIRCUIT	
				SOLID COLOR	BAND COLOR		SOLID COLOR	BAND COLOR	TERMINAL NO.	
4	PLUG 5 COMMON POSITION KEYS	26	PBK	BL	W	1	BL	W	23	POSITION CIRCUIT
		29	CPK	W	BL	26	W	BL	204	ATTENDANT LOOP CIRCUIT
		31	RFK	O	W	2	O	W	152	TRUNK CIRCUIT OR ATTENDANT LOOP CIRCUIT, AS REQUIRED
		33	HK	W	O	27	W	O	172	
		35	ATK	G	W	3	G	W	92	POSITION CIRCUIT
		16	PBL	W	G	28	W	G	33	
		41	B7	BR	W	4	BR	W	181	FUSE PANEL, BAT. B +1CV SUPPLY
		25	ATL	W	BR	29	W	BR	102	POSITION CIRCUIT
6	SRK	S	W	5	S	W	13	POSITION CIRCUIT		
3	PLUG 6 PUSHBUTTON DIAL	16	2	W	S	30	W	S	91	REGISTER SENDER LINK CIRCUIT
		35	4	BL	R	6	BL	R	81	
		4	ST	R	BL	31	R	BL	42	POSITION CIRCUIT
		40	7	O	R	7	O	R	71	REGISTER SENDER LINK CIRCUIT
		2	LG	R	O	32	R	O	122	POSITION CIRCUIT
		1	LB	G	R	8	G	R	131	FUSE PANEL, BAT. C +10V SUPPLY
		3	O	P	G	33	R	G	52	POSITION CIRCUIT
31	I	BR	R	9	BR	R	101	REGISTER SENDER LINK CIRCUIT		
2	PLUG 7 MISC POSITION KEYS	26	LK	R	BR	34	R	BR	93	POSITION CIRCUIT
		29	NK	S	R	10	S	R	73	
		31	SPK	R	S	35	R	S	174	ATTENDANT LOOP CIRCUIT
		8	SPARE	BL	BK	11	HL	BK	SPARE	
		33	FLK	BK	BL	36	BK	BL	63	POSITION CIRCUIT
		35	SVK	O	BK	12	O	BK	43	
		25	SRL	BK	O	37	BK	O	53	FUSE PANEL, BAT. B, +10V SUPPLY
		50	B8	G	BK	13	G	BK	181	
		2	PBK1	BK	G	38	BK	G	23	VERIFICATION DISTRIBUTOR AND POSITION CIRCUIT
		27	VK	BR	BK	14	BR	BK	34	VERIFICATION DISTRIBUTOR
		28	KPR	BK	BR	39	BK	BR	83	POSITION CIRCUIT
		32	RK	S	BK	15	S	BK	194	ATTENDANT LOOP CIRCUIT
		9	LRK	BK	S	40	BK	S	124	TWO-WAY POSITION TRUNK CIRCUIT
		21	SPL	BL	Y	16	BL	Y	184	ATTENDANT LOOP CIRCUIT
		30	SPARE	Y	BL	41	Y	BL	SPARE	
34	TRK	O	Y	17	O	Y	144	TRUNK CIRCUIT AND ATTENDANT LOOP CRT		
19	NCL	Y	O	42	Y	O	103	NIGHT CLOSING AND TRAFFIC SUPERVISORY CIRCUIT		
1	SPARE	G	Y	18	G	Y	SPARE			
1	TERMINAL STRIP IN SET	19	G6	Y	G	43	Y	G	182	FUSE PANEL, GROUND A
SPARE SPADE TIPPED LEADS ARE TAPED AND STORED IN SET. THESE LEADS MAY BE USED AS REQUIRED				BR	Y	19	BR	Y	SPARE	
				Y	BR	44	Y	BR		
				S	Y	20	S	Y		
				Y	S	45	Y	S		
				BL	V	21	HL	V		
				V	BL	46	V	BL		
				O	V	22	O	V		
				V	O	47	V	O		
				G	V	23	G	V		
				V	G	48	V	G		
				BR	V	24	BR	V		
				V	BR	49	V	BR		
S	V	25	S	V						
V	S	50	V	S						