

TELEPHONE SETS

622 TYPE

CONNECTIONS

1.00 GENERAL

1.01 This section covers connections for 622A1 and 622A2 telephone sets. These sets are used in No. 5 crossbar systems arranged for customer group service. The 622-type telephone set provides the attendant with a means of receiving and completing calls through the 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.

1.03 Illuminated talk keys provide the attendant with a means of establishing connections between the telephone set and incoming calls.

1.04 Ten pairs of supervisory lamps are provided. The left row consists of ten green source lamps. The right row consists of ten white destination lamps.

1.05 Source lamps light to indicate incoming calls, transferred calls, and source supervision.

1.06 Destination lamps light to indicate busy, ringing, and destination supervision.

1.07 Capacity of the 622A1 telephone set is ten talk keys, ten source lamps, and ten destination lamps.

1.08 Capacity of the 622A2 telephone set is twenty talk keys, twenty source lamps, and twenty destination lamps.

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1 through 10

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Fig. 7 — Destination and Source Lamps,
11 through 20

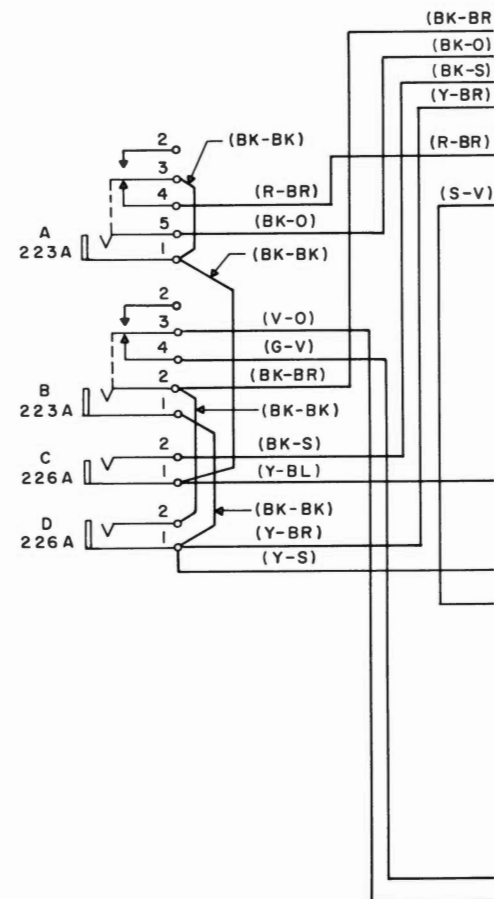
Fig. 8 — Talk Keys and Key Lamps,
11 through 20

Table A—Connections for 622-Type Telephone Set, Blue-Served Unit of Connector Cable

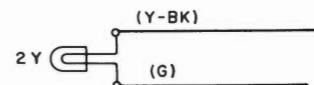
Table B—Connections for 622-Type Telephone Set, Orange-Served Unit of Connector Cable

Table C—Connections for 622-Type Telephone Set, Green-Served Unit of Connector Cable

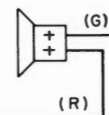
JACKS



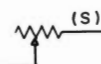
LAMP CALLS WAITING



LOUDSPEAKER P-12E987

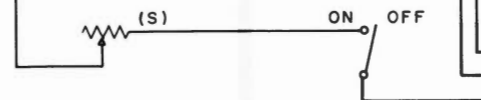


VOLUME CONTROL KS-16108



KEY AUDIBLE SIGNAL

ON OFF



NETWORK ASSEMBLY
P-14E198

INDUCTION COIL
181B

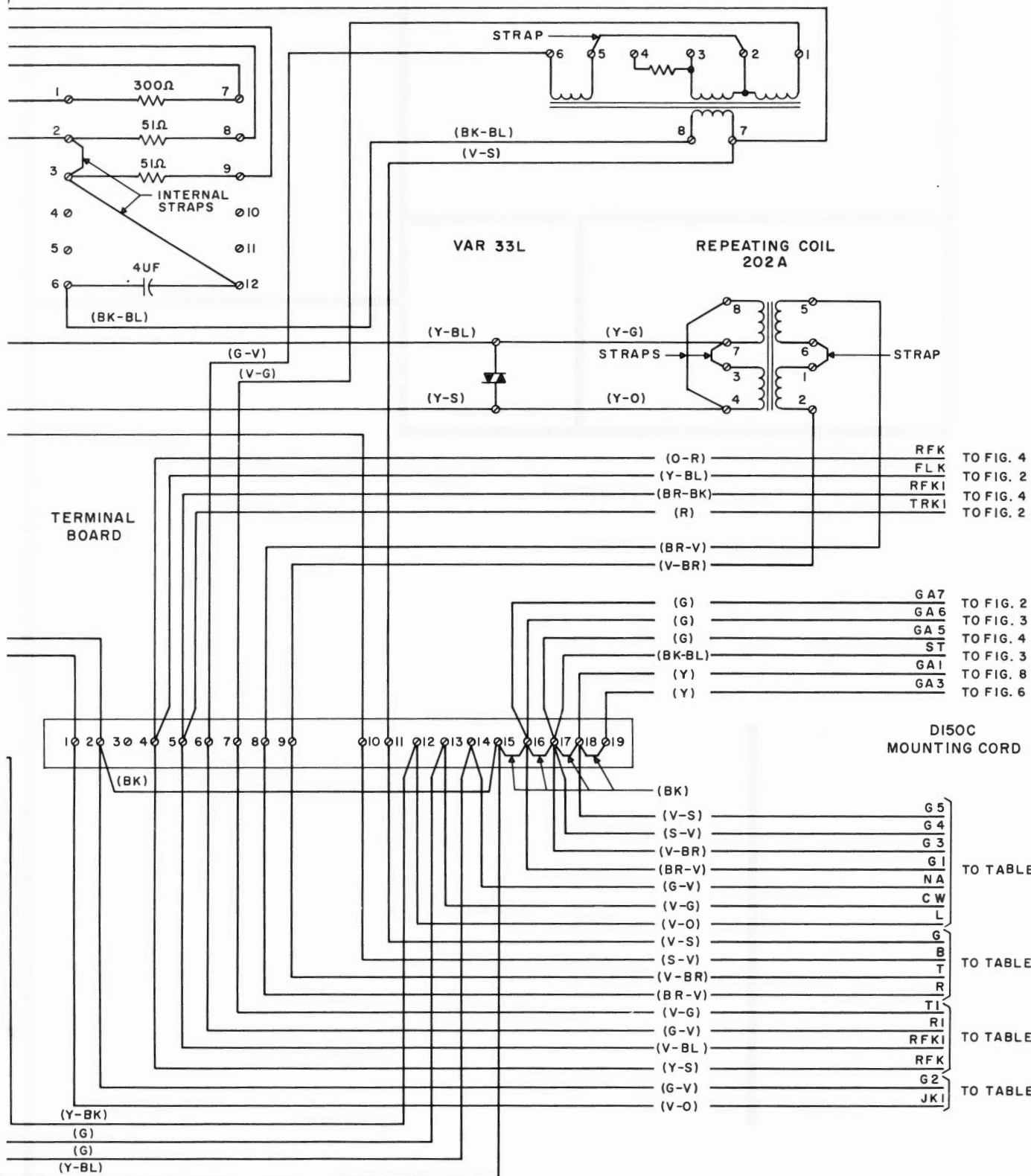


Fig. 1 – Attendant Telephone Circuit

SECTION C38.656.03

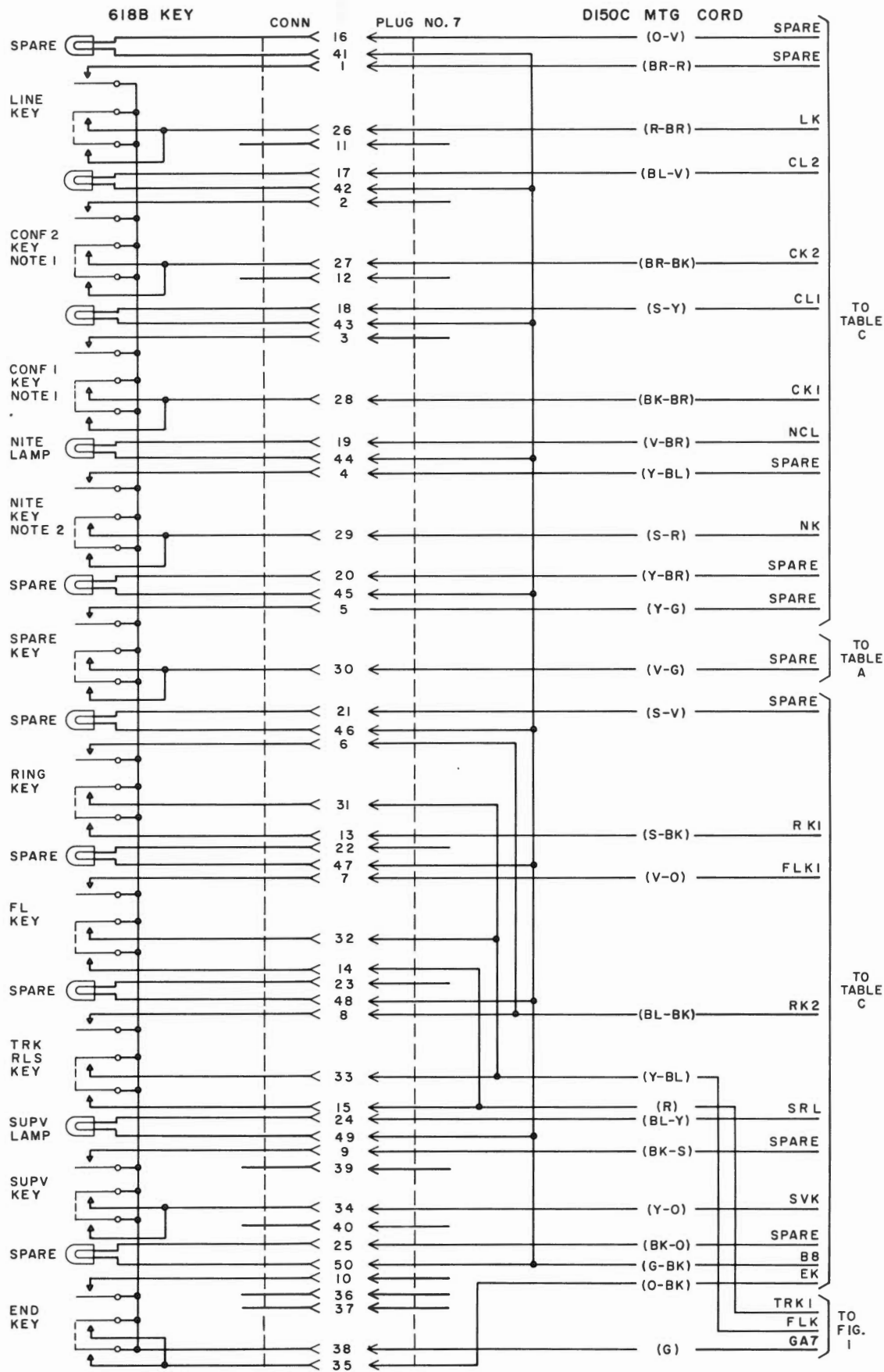


Fig. 2 — Miscellaneous Keys and Lamps

21C DIAL

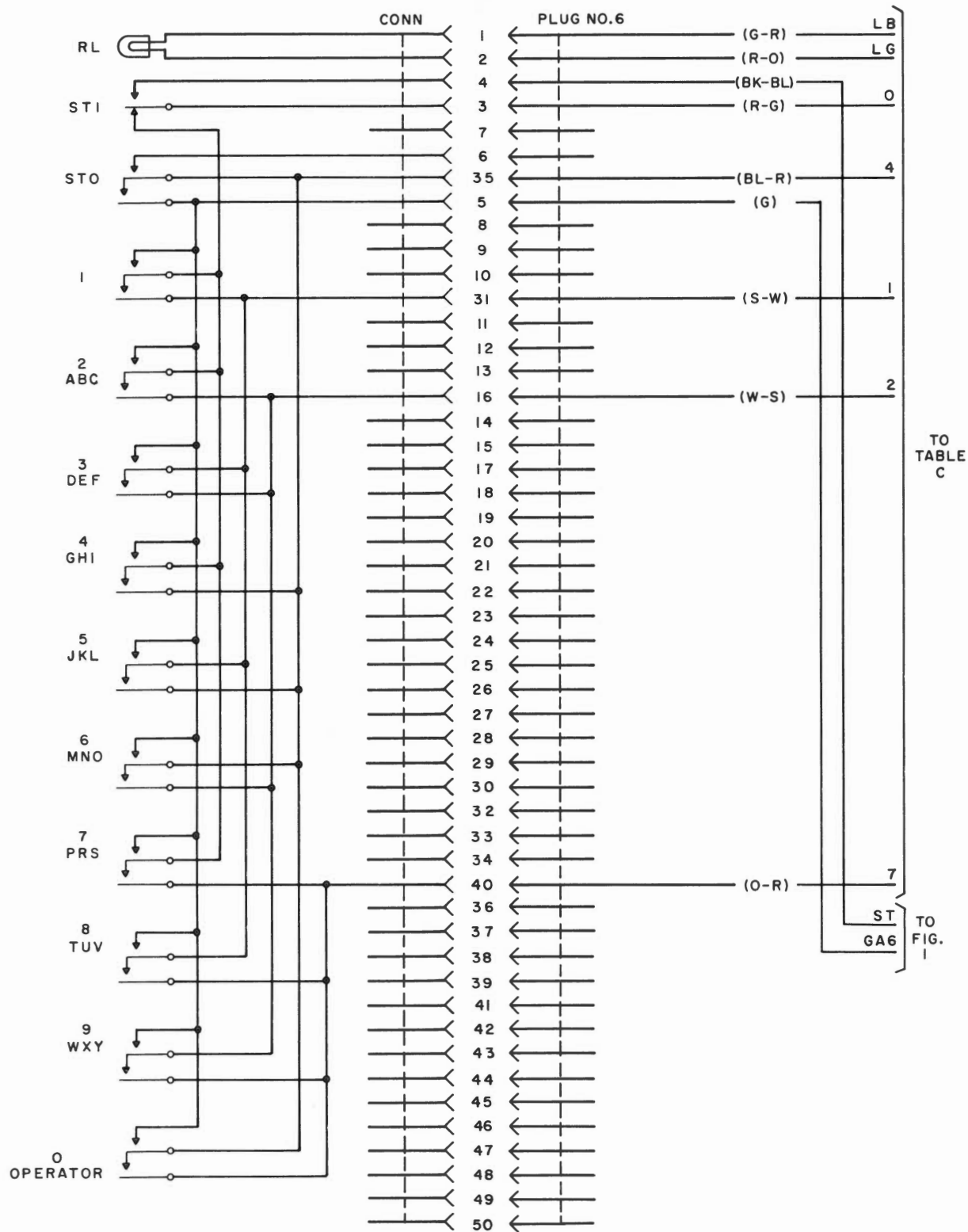
D150C
MOUNTING CORD

Fig. 3 — Pushbutton Dial

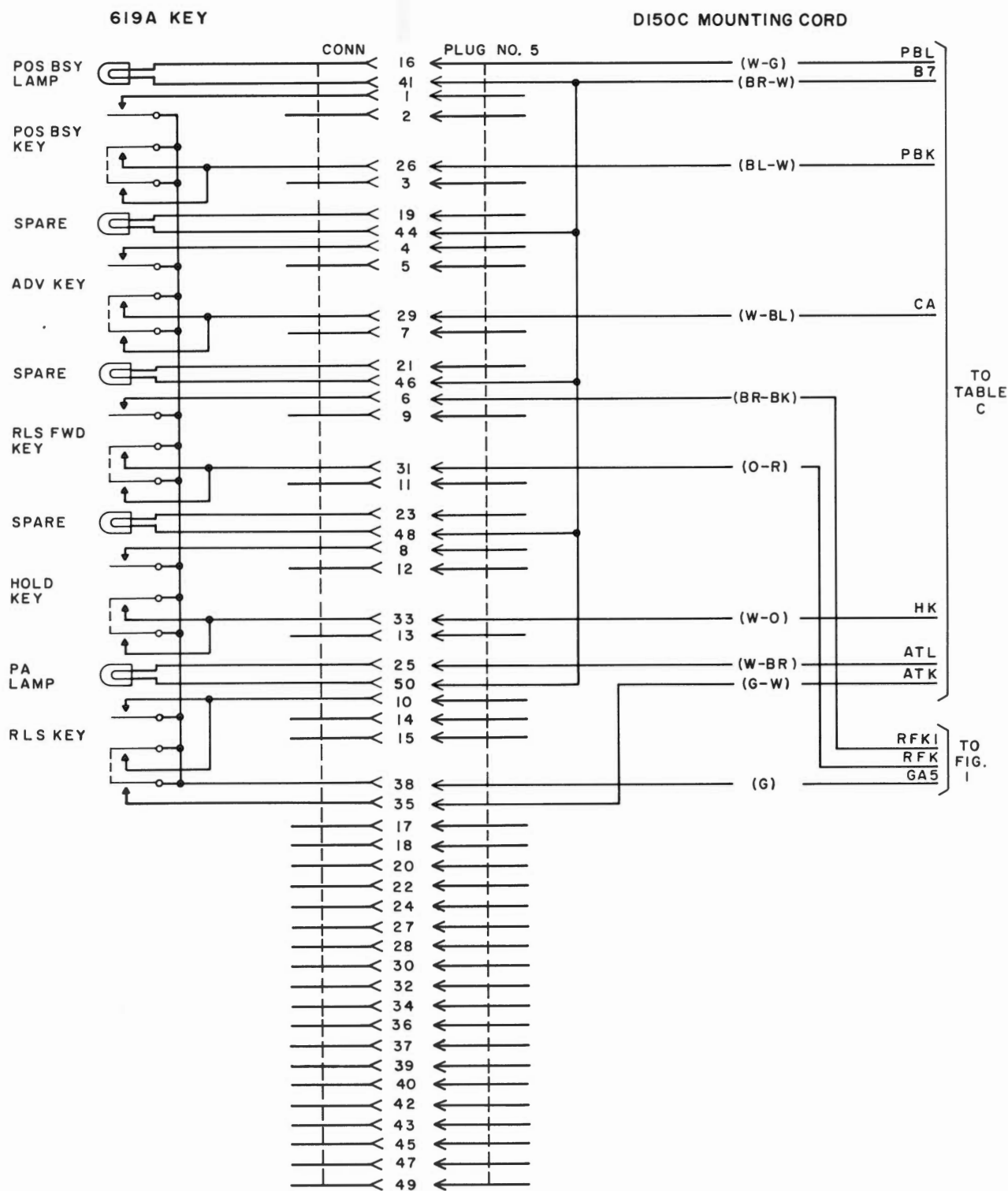


Fig. 4 – Common Position Keys

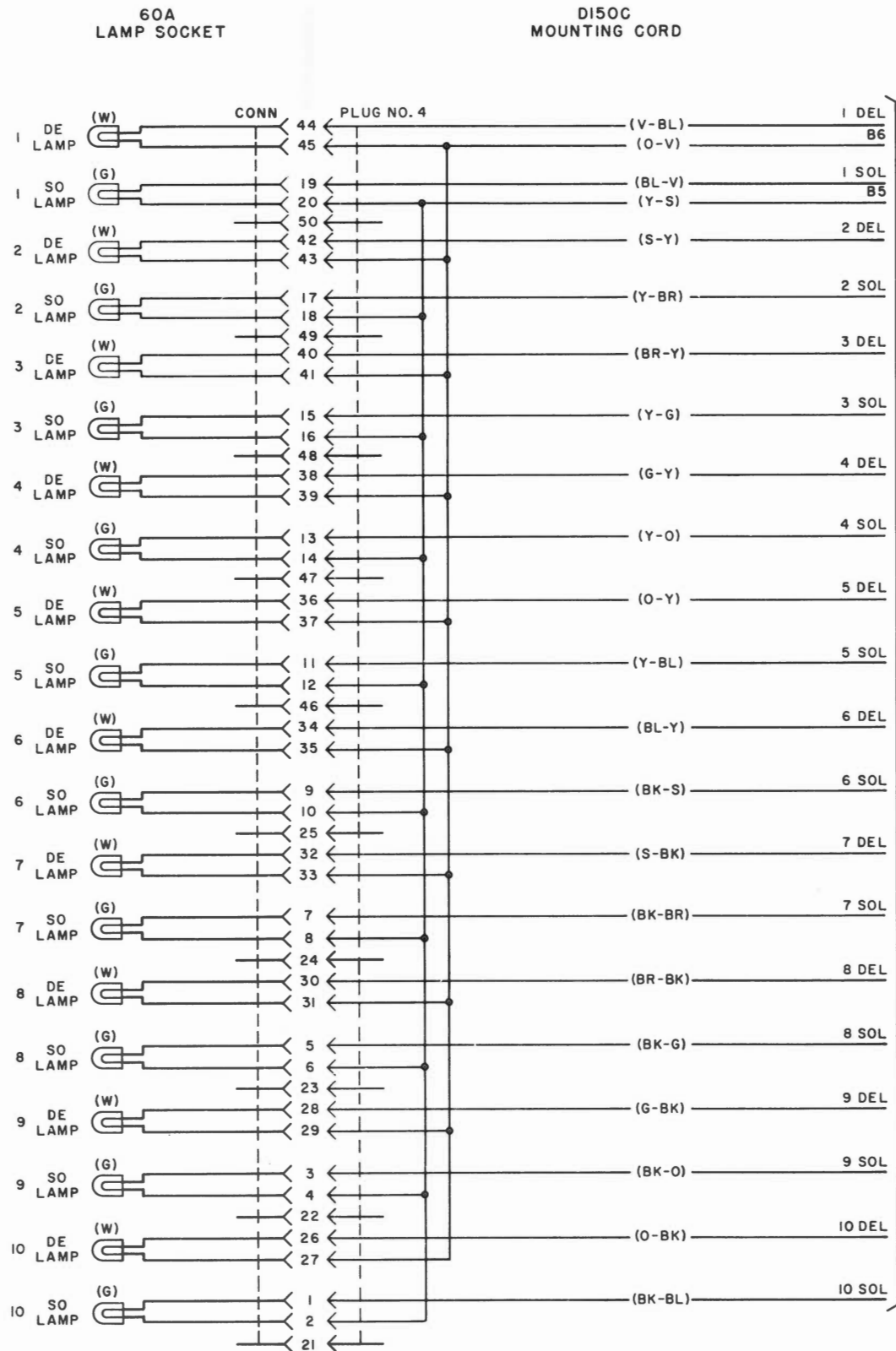


Fig. 5 – Destination and Source Lamps, 1 through 10

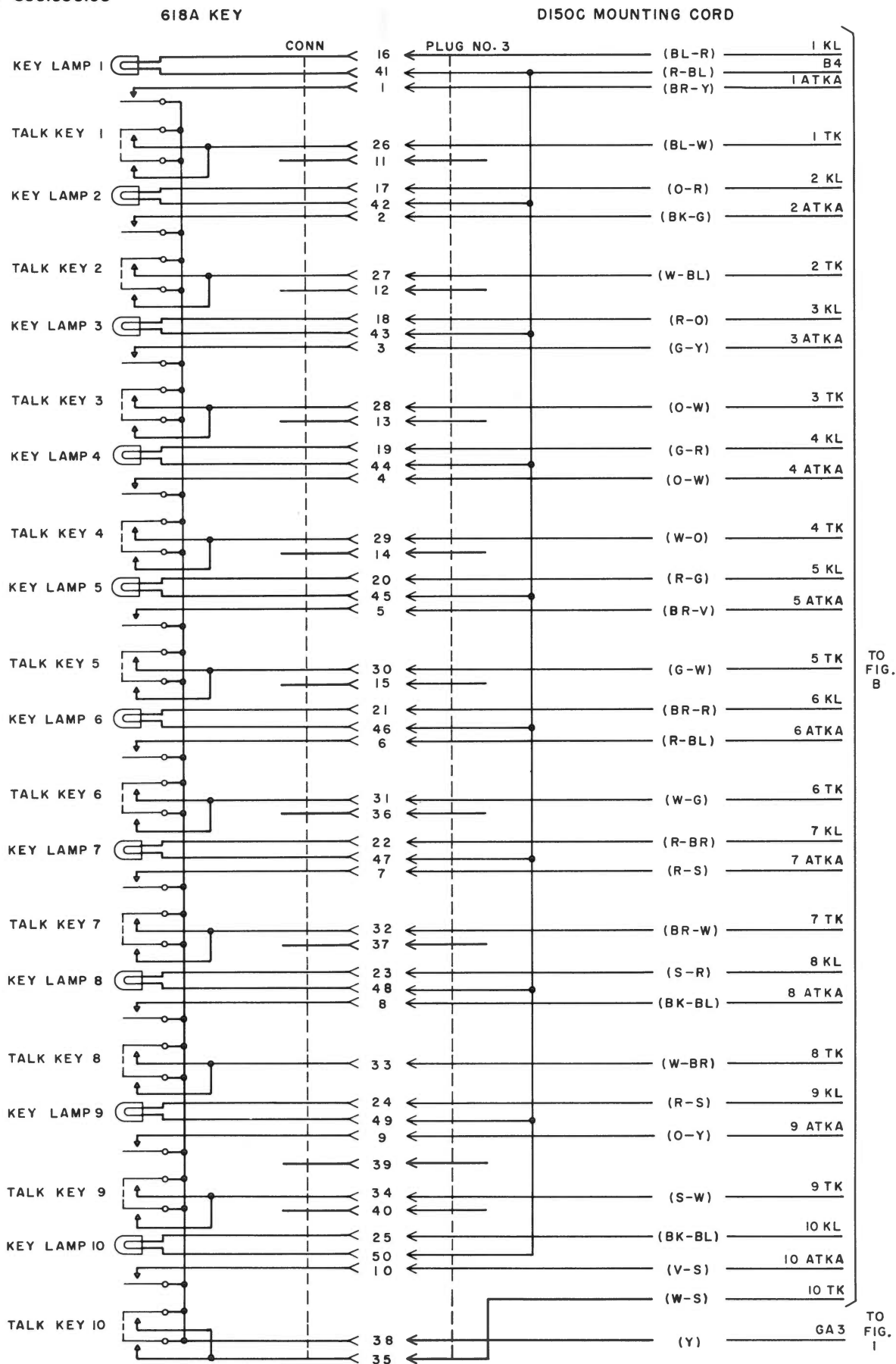


Fig. 6 — Talk Keys and Key Lamps, 1 through 10

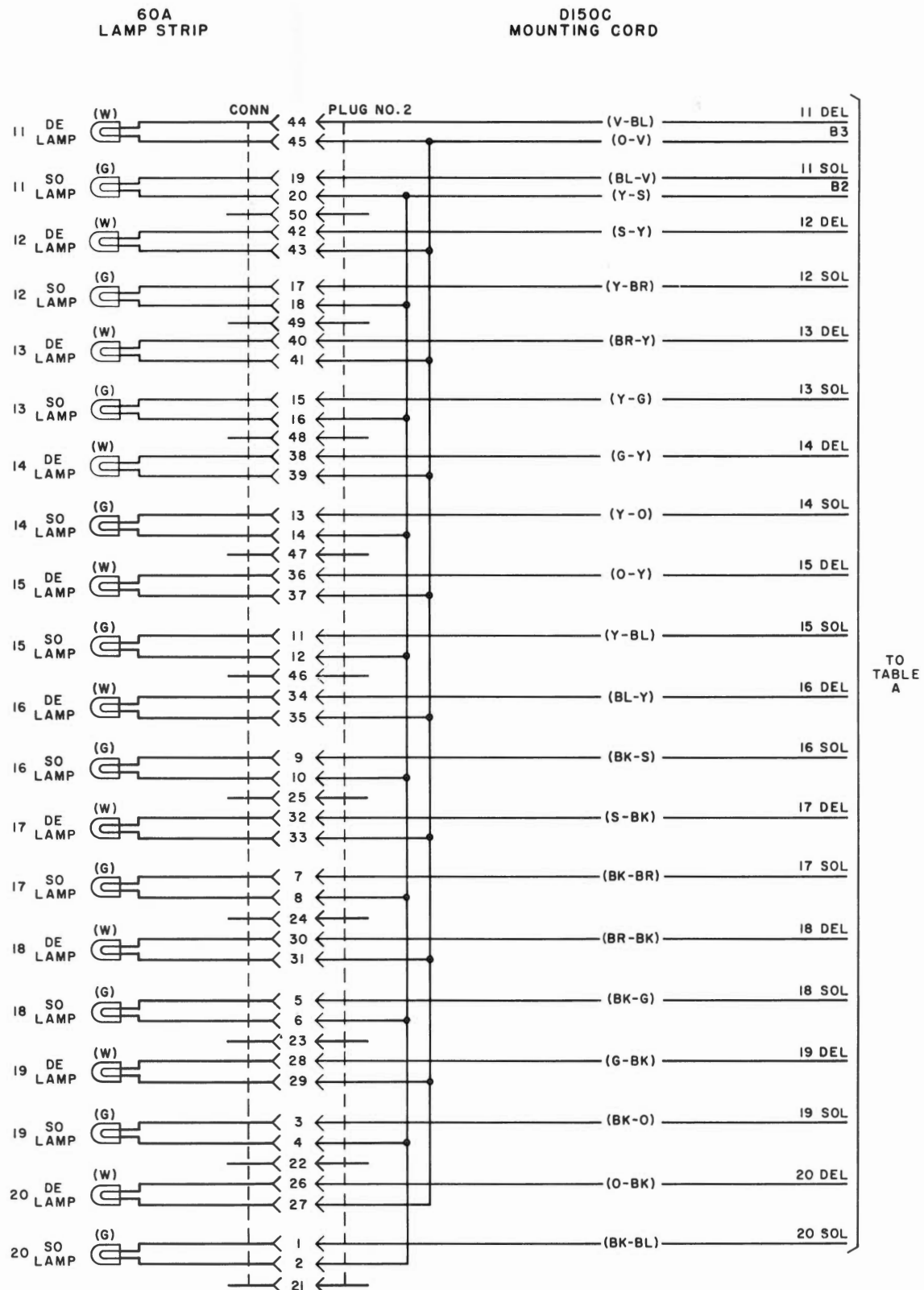


Fig. 7 — Destination and Source Lamps, 11 through 20

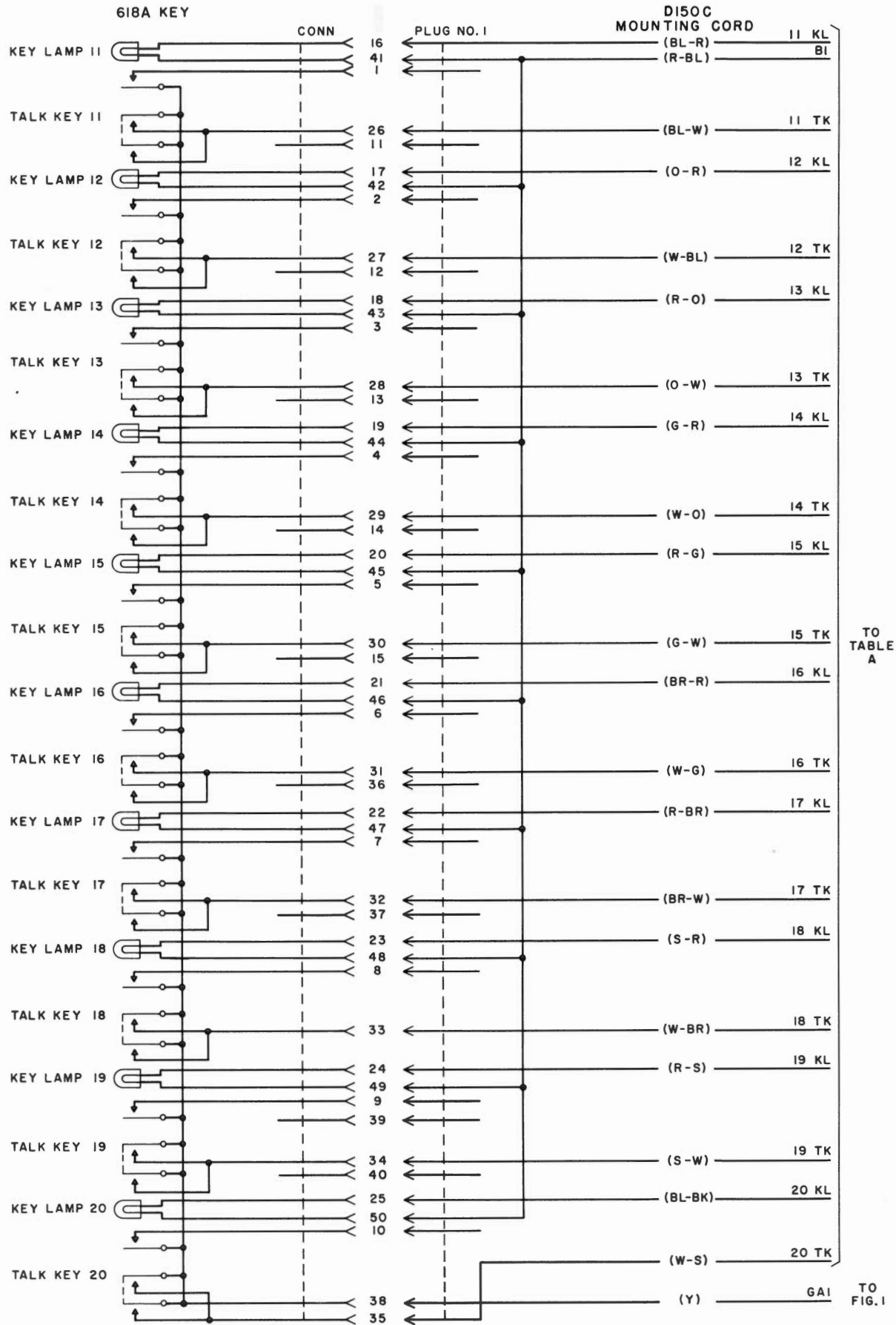


Fig. 8 — Talk Keys and Key Lamps, 11 through 20

TABLE A
CONNECTIONS FOR 622-TYPE TELEPHONE SET
BLUE-SERVED UNIT OF CONNECTOR CABLE

FROM	D150C MOUNTING CORD BLUE-SERVED CORD UNIT					A75A CONNECTOR CABLE CONNECTOR NO.1 - BLUE-SERVED CABLE UNIT			
FIG. NO.	TERMINATION IN SET CONNECTION FOR	TERMINAL OR PIN NUMBER	LEAD DESIG	CORD CONDUCTOR		PIN NUMBER OF CORD PLUG AND CABLE CONNECTOR	CABLE CONDUCTOR		ASSOCIATED WITH
				SOLID COLOR	BAND COLOR		SOLID COLOR	BAND COLOR	
8	PLUG 1 TALK KEYS AND KEY LAMPS 11 TO 20	26	11TK	BL	W	1	BL	W	ATTENDANT ACCESS TRUNK OR POSITION LOOP CIRCUIT AS REQUIRED
		27	12TK	W	BL	26	W	BL	
		28	13TK	O	W	2	O	W	
		29	14TK	W	O	27	W	O	
		30	15TK	G	W	3	G	W	
		31	16TK	W	G	28	W	G	
		32	17TK	BR	W	4	BR	W	
		33	18TK	W	BR	29	W	BR	
		34	19TK	S	W	5	S	W	
		35	20TK	W	S	30	W	S	
		16	11KL	BL	R	6	BL	R	POWER SUPPLY CIRCUIT
		41	B1	R	BL	31	R	BL	
		17	12KL	O	R	7	O	R	
		18	13KL	R	O	32	R	O	
		19	14KL	G	R	8	G	R	
		20	15KL	R	G	33	R	G	
		21	16KL	BR	R	9	BR	R	
		22	17KL	R	BR	34	R	BR	
		23	18KL	S	R	10	S	R	
		24	19KL	R	S	35	R	S	
7	PLUG 2 DESTINATION AND SOURCE LAMPS 11 TO 20	25	20KL	BL	BK	11	BL	BK	ATTENDANT ACCESS TRUNK OR POSITION LOOP CIRCUIT AS REQUIRED
		1	20SOL	BK	BL	36	BK	BL	
		26	20DEL	O	BK	12	O	BK	
		3	19SOL	BK	O	37	BK	O	
		28	19DEL	G	BK	13	G	BK	
		5	18SOL	BK	G	38	BK	G	
		30	18DEL	BR	BK	14	BR	BK	
		7	17SOL	BK	BR	39	BK	BR	
		32	17DEL	S	BK	15	S	BK	
		9	16SOL	BK	S	40	BK	S	
		34	16DEL	BL	Y	16	BL	Y	POWER SUPPLY CIRCUIT
		11	15SOL	Y	BL	41	Y	BL	
		36	15DEL	O	Y	17	O	Y	
		13	14SOL	Y	O	42	Y	O	
		38	14DEL	G	Y	18	G	Y	
		15	13SOL	Y	G	43	Y	G	
		40	13DEL	BR	Y	19	BR	Y	
		17	12SOL	Y	BR	44	Y	BR	
		42	12DEL	S	Y	20	S	Y	
		20	B2	Y	S	45	Y	S	
1	TERMINAL BOARD	19	11SOL	BL	V	21	BL	V	ATT ACCESS TRK OR POS LOOP CKT AS REQD
		44	11DEL	V	BL	46	V	BL	
2	PLUG NO.7 MISC KEYS & LP	45	B3	O	V	22	O	V	POWER SUPPLY CIRCUIT
		1	JK1	V	O	47	V	O	POS CKT B GRD (LEAD SHALL NOT EXCEED 600Ω)
1	TERMINAL BOARD	2	G2	G	V	23	G	V	POS CKT
		30	SPARE	V	G	48	V	G	V3 TELEPHONE REPEATER (OUTPUT)
		8	R	BR	V	24	BR	V	
		9	T	V	BR	49	V	BR	
1	TERMINAL BOARD	10	B	S	V	25	S	V	POS CKT
		11	G	V	S	50	V	S	

TABLE B
CONNECTIONS FOR 622-TYPE TELEPHONE SET
ORANGE-SERVED UNIT OF CONNECTOR CABLE

FROM	D150C MOUNTING CORD ORANGE-SERVED CORD UNIT						A75A CONNECTOR CABLE CONNECTOR NO.2 - ORANGE-SERVED CABLE UNIT		
FIG. NO	TERMINATION IN SET	TERMINAL OR PIN NUMBER	LEAD DESIG	CORD CONDUCTOR		PIN NUMBER OF CORD PLUG AND CABLE CONNECTOR	CABLE CONDUCTOR		ASSOCIATED WITH
	CONNECTION FOR			SOLID COLOR	BAND COLOR		SOLID COLOR	BAND COLOR	
6	PLUG 3 TALK KEYS AND KEY LAMPS 1 TO 10	26	1TK	BL	W	1	BL	W	ATTENDANT ACCESS TRUNK OR POSITION LOOP CIRCUIT AS REQUIRED
		27	2TK	W	BL	26	W	BL	
		28	3TK	O	W	2	O	W	
		29	4TK	W	O	27	W	O	
		30	5TK	G	W	3	G	W	
		31	6TK	W	G	28	W	G	
		32	7TK	BR	W	4	BR	W	
		33	8TK	W	BR	29	W	BR	
		34	9TK	S	W	5	S	W	
		35	10TK	W	S	30	W	S	
		16	1KL	BL	R	6	BL	R	POWER SUPPLY CKT
		41	B4	R	BL	31	R	BL	
		17	2KL	O	R	7	O	R	
		18	3KL	R	O	32	R	O	
		19	4KL	G	R	8	G	R	
		20	5KL	R	G	33	R	G	
		21	6KL	BR	R	9	BR	R	
		22	7KL	R	BR	34	R	BR	
		23	8KL	S	R	10	S	R	
		24	9KL	R	S	35	R	S	
5	PLUG 4 DESTINATION AND SOURCE LAMPS 1 TO 10	25	10KL	BL	BK	11	BL	BK	ATTENDANT ACCESS TRUNK OR POSITION LOOP CIRCUIT AS REQUIRED
		1	10SOL	BK	BL	36	BK	BL	
		26	10DEL	O	BK	12	O	BK	
		3	9SOL	BK	O	37	BK	O	
		28	9DEL	G	BK	13	G	BK	
		5	8SOL	BK	G	38	BK	G	
		30	8DEL	BR	BK	14	BR	BK	
		7	7SOL	BK	BR	39	BK	BR	
		32	7DEL	S	BK	15	S	BK	
		9	6SOL	BK	S	40	BK	S	
		34	6DEL	BL	Y	16	BL	Y	POWER SUPPLY CKT
		11	5SOL	Y	BL	41	Y	BL	
		36	5DEL	O	Y	17	O	Y	
		13	4SOL	Y	O	42	Y	O	
		38	4DEL	G	Y	18	G	Y	
		15	3SOL	Y	G	43	Y	G	
		40	3DEL	BR	Y	19	BR	Y	
		17	2SOL	Y	BR	44	Y	BR	
		42	2DEL	S	Y	20	S	Y	
		20	B5	Y	S	45	Y	S	
1	TERMINAL BOARD IN SET	19	1SOL	BL	V	21	BL	V	ATT ACCESS TRK OR POS CKT AS REQD
		44	1DEL	V	BL	46	V	BL	POWER SUPPLY CKT
		45	B6	O	V	22	O	V	SEE NOTE
		12	L	V	O	47	V	O	POSITION CKT
		14	NA	G	V	23	G	V	SEE NOTE
		13	CW	V	G	48	V	G	POS CKT B GRD (LEAD SHALL NOT EXCEED 600Ω)
		16	G1	BR	V	24	BR	V	POS CKT C GRD (LEAD SHALL NOT EXCEED 600Ω)
		17	G3	V	BR	49	V	BR	SPARE
		17	G4	S	V	25	S	V	
		18	G5	V	S	50	V	S	

NOTE: WHEN THE EXTERNAL LOOP TO THE CW LAMP IS LESS THAN 50 Ω, CONNECT THE CW LEAD TO -48 VOLT PBX BATTERY ON THE MDF AT THE CENTRAL OFFICE AND THE L LEAD TO THE CALLS WAITING SIGNAL CIRCUIT OR THE ATTENDANT TRUNK. WHEN THE EXTERNAL LOOP TO THE CW LAMP IS GREATER THAN 50 Ω CONNECT THE CW LEAD TO THE LOCAL LAMP BATTERY SUPPLY AND THE L LEAD TO THE LAMP REPEATING CIRCUIT, AND REPLACE 2Y CW LAMP WITH A 2F-TYPE LAMP.

TABLE C
CONNECTIONS FOR 622-TYPE TELEPHONE SET
GREEN-SERVED UNIT OF CONNECTOR CABLE

FROM	D150C MOUNTING CORD GREEN-SERVED CORD UNIT					A75A CONNECTOR CABLE CONNECTOR NO. 3 - GREEN-SERVED CABLE UNIT			
	TERMINATION IN SET	LEAD DESIG	CORD CONDUCTOR		PIN NUMBER OF CORD PLUG AND CABLE CONNECTOR	CABLE CONDUCTOR		ASSOCIATED WITH	
FIG. NO.	CONNECTION FOR	TERMINAL OR PIN NUMBER	SOLID COLOR	BAND COLOR		SOLID COLOR	BAND COLOR		
4	PLUG NO. 5 COM POS KEYS	26	PBK	BL	W	1	BL	W	POS CKT
		29	CA	W	BL	26	W	BL	CONFERENCE CKT
6	PLUG NO. 3 TLK KEYS & LP	4	4ATKA	O	W	2	O	W	POS LOOP CKT
4	PLUG NO. 5 COM POS KEYS	33	HK	W	O	27	W	O	POS LOOP CKT
		35	ATK	G	W	3	G	W	POS CKT
		16	PBL	W	G	28	W	G	POS CKT
		41	B7	BR	W	4	BR	W	POWER SUPPLY CKT
		25	ATL	W	BR	29	W	BR	POS CKT
3	PLUG NO. 6 PB DIAL	31	1	S	W	5	S	W	POS CKT
		16	2	W	S	30	W	S	POS CKT
		35	4	BL	R	6	BL	R	POS CKT
6	PLUG NO. 3 TLK KEYS & LP	6	6ATKA	R	BL	31	R	BL	POS LOOP CKT
3	PLUG NO. 6 PB DIAL	40	7	O	R	7	O	R	POS CKT
		2	LG	R	O	32	R	O	POS CKT
		1	LB	G	R	8	G	R	POWER SUPPLY CKT
		3	O	R	G	33	R	G	POS CKT
2	PLUG NO. 7 MISC KEYS & LP	1	SPARE	BR	R	9	BR	R	POS CKT
		26	LK	R	BR	34	R	BR	POS LOOP CKT
		29	NK	S	R	10	S	R	POS CKT
6	PLUG NO. 3 TLK KEYS & LP	7	7ATKA	R	S	35	R	S	POS LOOP CKT
2	PLUG NO. 7 MISC KEYS & LP	8	RK2	BL	BK	11	BL	BK	POS CKT
6	PLUG NO. 3 TLK KEYS & LP	8	8ATKA	BK	BL	36	BK	BL	POS LOOP CKT
2	PLUG NO. 7 MISC KEYS & LP	35	EK	O	BK	12	O	BK	POS CKT
		25	SPARE	BK	O	37	BK	O	POS CKT
		50	B8	G	BK	13	G	BK	POWER SUPPLY CKT
6	PLUG NO. 3 TLK KEYS & LP	2	2ATKA	BK	G	38	BK	G	POS LOOP CKT
2	PLUG NO. 7 MISC KEYS & LP	27	CK2	BR	BK	14	BR	BK	2ND CONFERENCE CKT
		28	CK1	BK	BR	39	BK	BR	1ST CONFERENCE CKT
		13	RK1	S	BK	15	S	BK	POS CKT
		9	SPARE	BK	S	40	BK	S	POS CKT
		24	SRL	BL	Y	16	BL	Y	POS CKT
6	PLUG NO. 3 TLK KEYS & LP	4	SPARE	Y	BL	41	Y	BL	POS CKT
6	PLUG NO. 3 TLK KEYS & LP	9	9ATKA	O	Y	17	O	Y	POS LOOP CKT
2	PLUG NO. 7 MISC KEYS & LP	34	SVK	Y	O	42	Y	O	POS CKT
6	PLUG NO. 3 TLK KEYS & LP	3	3ATKA	G	Y	18	G	Y	POS LOOP CKT
2	PLUG NO. 7 MISC KEYS & LP	5	SPARE	Y	G	43	Y	G	POS CKT
6	PLUG NO. 3 TLK KEYS & LP	1	1ATKA	BR	Y	19	BR	Y	POS LOOP CKT
2	PLUG NO. 7 MISC KEYS & LP	20	SPARE	Y	BR	44	Y	BR	POS CKT
		18	CL1	S	Y	20	S	Y	1ST CONFERENCE CKT
1	TERMINAL BOARD	4	RFK	Y	S	45	Y	S	POS CKT
2	PLUG NO. 7 MISC KEYS & LP	17	CL2	BL	V	21	BL	V	2ND CONFERENCE CKT
1	TERMINAL BOARD	5	RFK1	V	BL	46	V	BL	POS CKT
2	PLUG NO. 7 MISC KEYS & LP	16	SPARE	O	V	22	O	V	POS CKT
		7	FLK1	V	O	47	V	O	POS CKT
1	TERMINAL BOARD	6	R1	G	V	23	G	V	TO V3 TELEPHONE REPEATER (INPUT)
1	TERMINAL BOARD	7	T1	V	G	48	V	G	
6	PLUG NO. 3 TLK KEYS & LP	5	SATKA	BR	V	24	BR	V	POS LOOP CKT
2	PLUG NO. 7 MISC KEYS & LP	19	NCL	V	BR	49	V	BR	POS CKT
		21	SPARE	S	V	25	S	V	POS CKT
6	PLUG NO. 3 TLK KEYS & LP	10	10ATKA	V	S	50	V	S	POS LOOP CKT