

TELEPHONE SETS

610-TYPE

CONNECTIONS

1.00 INTRODUCTION

1.01 This section is reissued to:

- Include information on 610B telephone sets.
- Add Fig. 1A.

1.02 Due to extensive changes marginal arrows have been omitted.

2.00 GENERAL

2.01 This section covers connections for 610A and 610B telephone sets.

These sets are used in conjunction with equipment mounted in slide 5 of a 756A PBX to constitute a cordless position circuit for the PBX.

2.02 The 610B telephone set differs from the 610A telephone set by the use of a 151E amplifier in place of the 151B amplifier which did not include a polarity guard.

2.03 In general practice, a maximum of two cordless position circuits and one key telephone set are connected to one PBX.

2.04 TT and TR leads are chained through jacks A and B of the 610-type telephone sets. When a headset or handset is plugged into jacks A and B of the first 610-type telephone set, these leads are open to the succeeding cordless position circuit and to the key telephone set. However, SL and TL lamps will light at all locations.

2.05 The 610-type telephone set comes equipped with a 598B key in right (originating) position and a 598A key in center position. The 610A1 and 610B1 sets have a 105B apparatus blank in left position. The 610A2 and 610B2 sets have a 598A key in left position; in this case Fig. 4 will apply.

3.00 CONVERSION OF 610A TO 610B

A 610A telephone set may be converted to a 610B as follows:

1. Disconnect leads to 151B amplifier and remove amplifier mounting screws.

2. Replace 151B amplifier with 151E amplifier.

3. Reconnect spade-tipped leads to amplifier terminals as follows:

- BR-W to terminal 2.
- BK-BL to terminal 1.
- Move S-BK lead from terminal 12 of TS2 to terminal 1 of amplifier.
- Move BR-BK lead from terminal 3 of network to terminal 4 of amplifier.
- S-W to terminal E.
- G to terminal W.
- BL to terminal V.
- S to terminal N.

4. Add two strap leads (preferably slate color) with spade tip at each end as follows:

One 6-inch strap lead connecting terminal 3 of network to terminal 3 of amplifier.

One 2-1/2-inch strap lead connecting terminal 1 of amplifier to terminal L of amplifier.

5. Check for proper operation of the telephone set.

4.00 INDEX FOR CONNECTION FIGURES

Fig. 1 - Attendant Telephone Circuit for 610A Telephone Set

Fig. 1A - Attendant Telephone Circuit for 610B Telephone Set

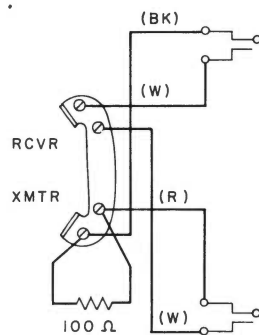
Fig. 2 - Right Key and Lamp Unit

Fig. 3 - Center Key and Lamp Unit

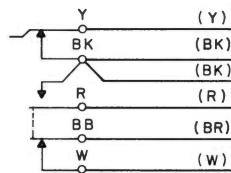
Fig. 4 - Left Key and Lamp Unit

Table A - Connections for 610-type Telephone Set

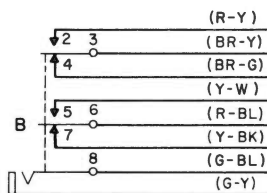
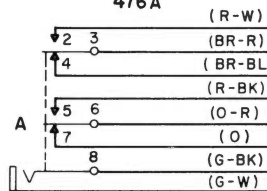
HAND SET
G3CR



DIAL
6N3

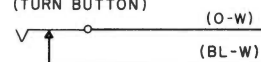


JACKS
476A

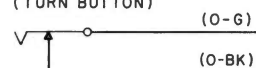


SWITCH ASSEMBLIES
P-11E462

AUD SIG
CUTOFF KEY
(TURN BUTTON)



NIGHT SERVICE
KEY
(TURN BUTTON)



(BK)

(Y-W)

(Y-BL)

(Y-BK)

(G-W)

(O-W)

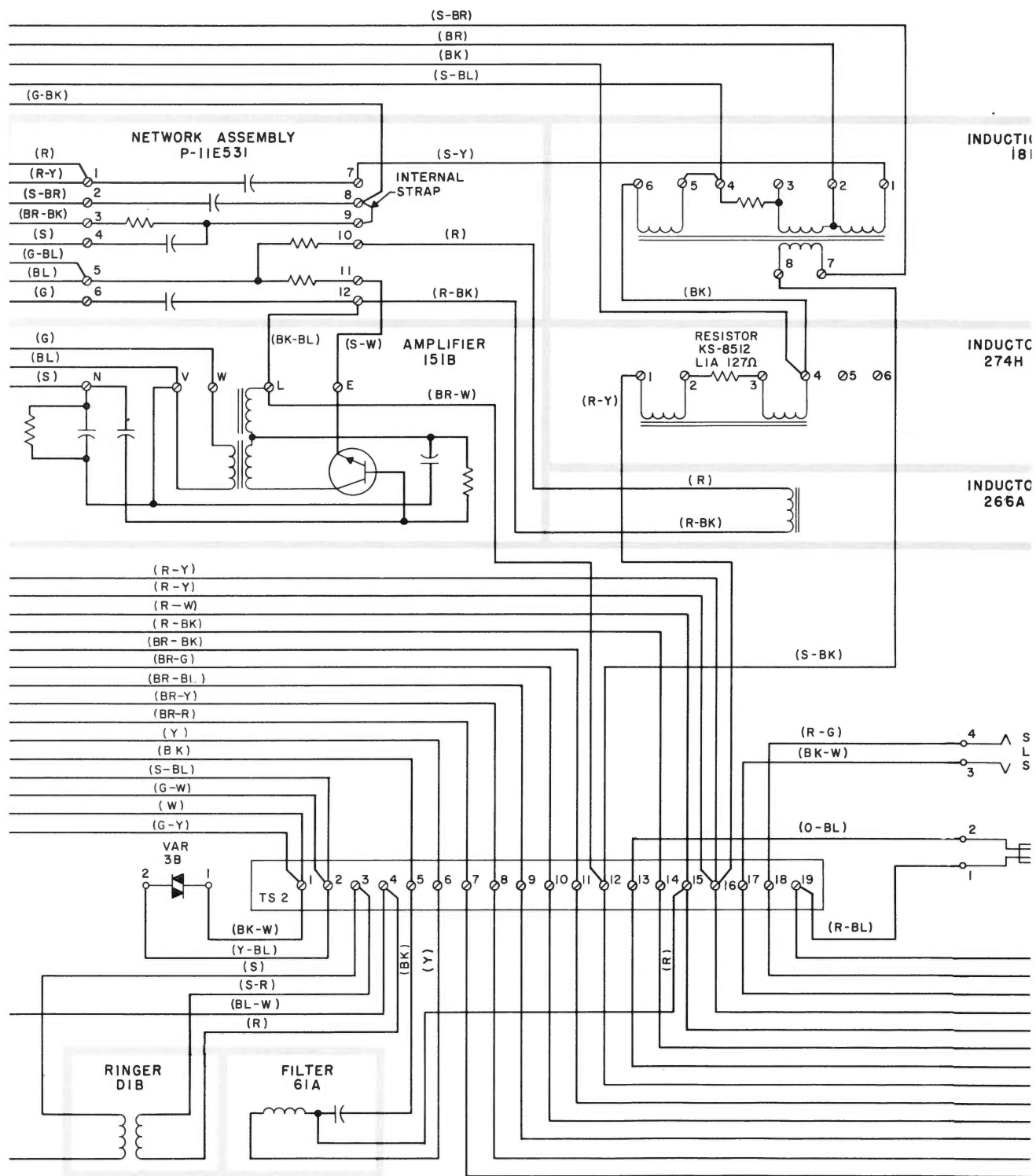
(O)

(O-BL)

(S)

(BL-W)

(BK-W)



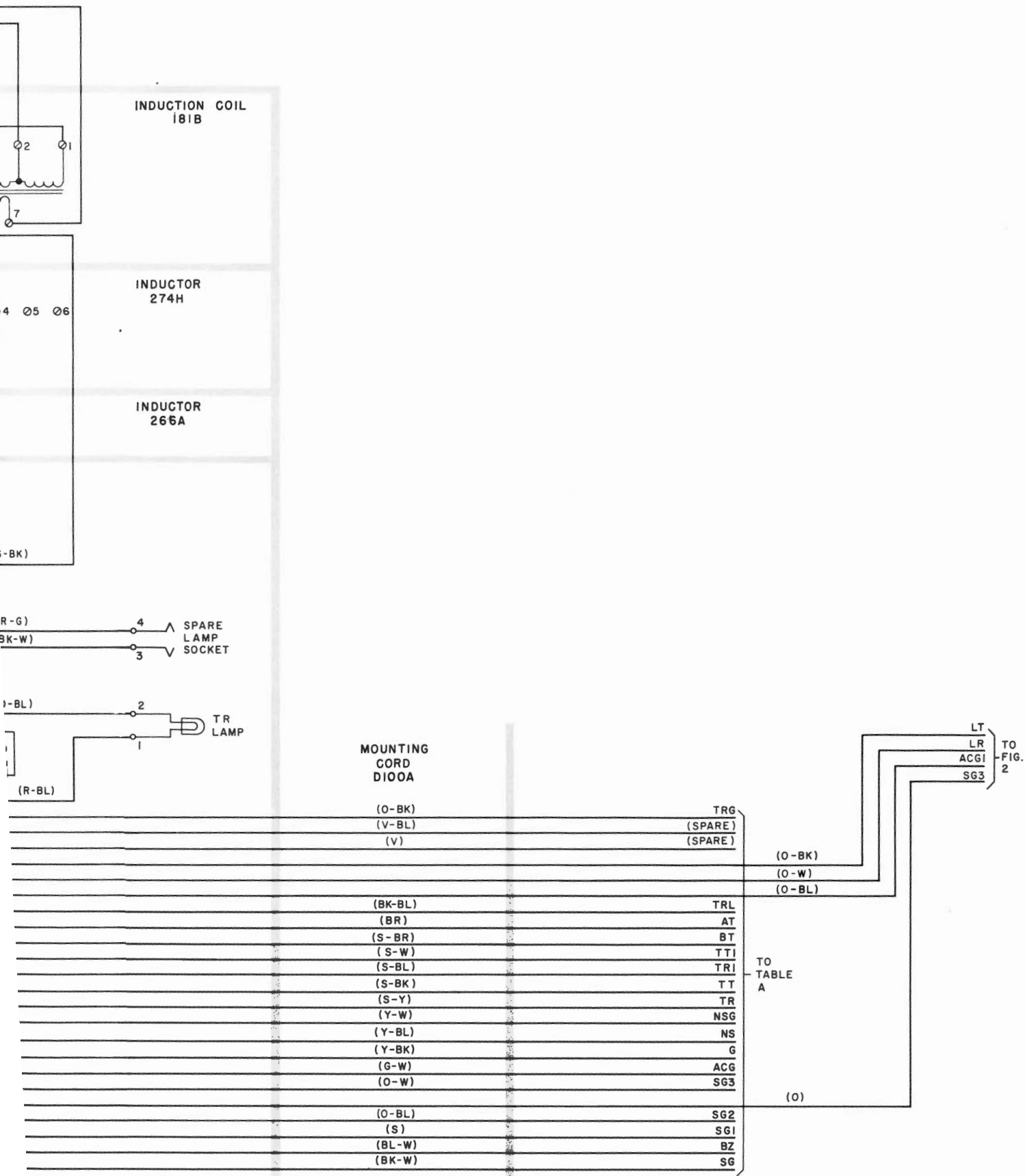
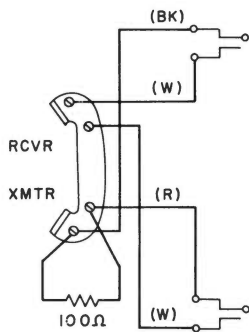
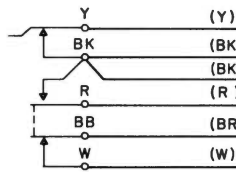


Fig. 1 - Attendant Telephone Circuit for 610A Telephone Set

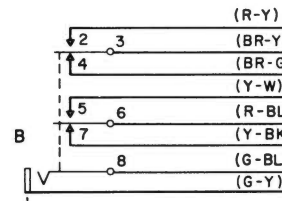
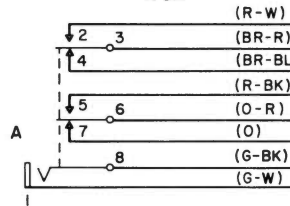
HAND SET
G3CR



DIAL
6N3



JACKS
476A

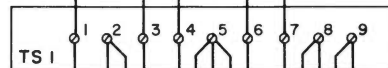


SWITCH ASSEMBLIES
P-11E462

AUD SIG
CUTOFF KEY
(TURN BUTTON)



NIGHT SERVICE
KEY
(TURN BUTTON)



(BK)

(Y-W)

(Y-BL)

(Y-BK)

(G-W)

(O-W)

(O)

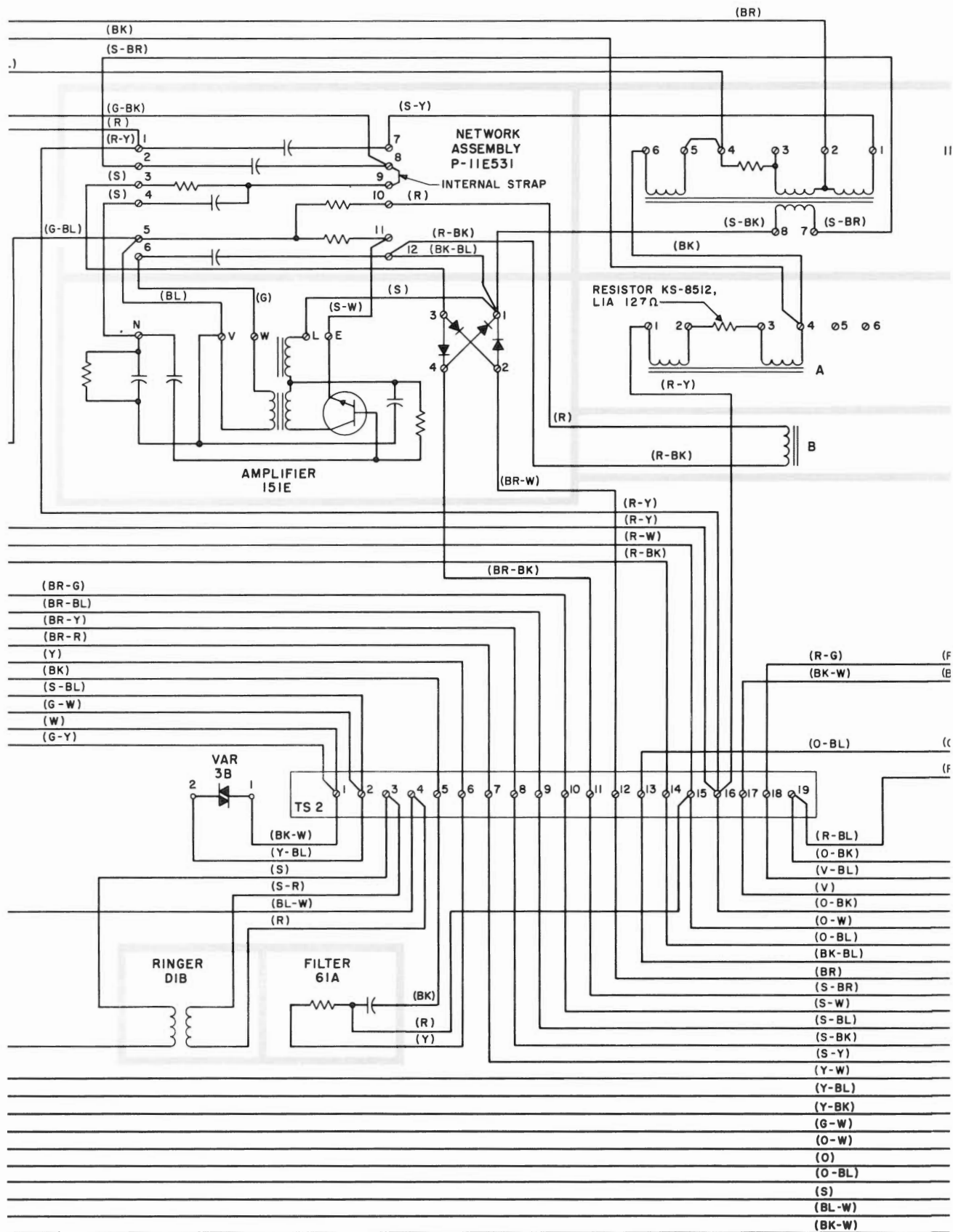
(O-BL)

(S)

(BL-W)

(BK-W)

(S-BI)



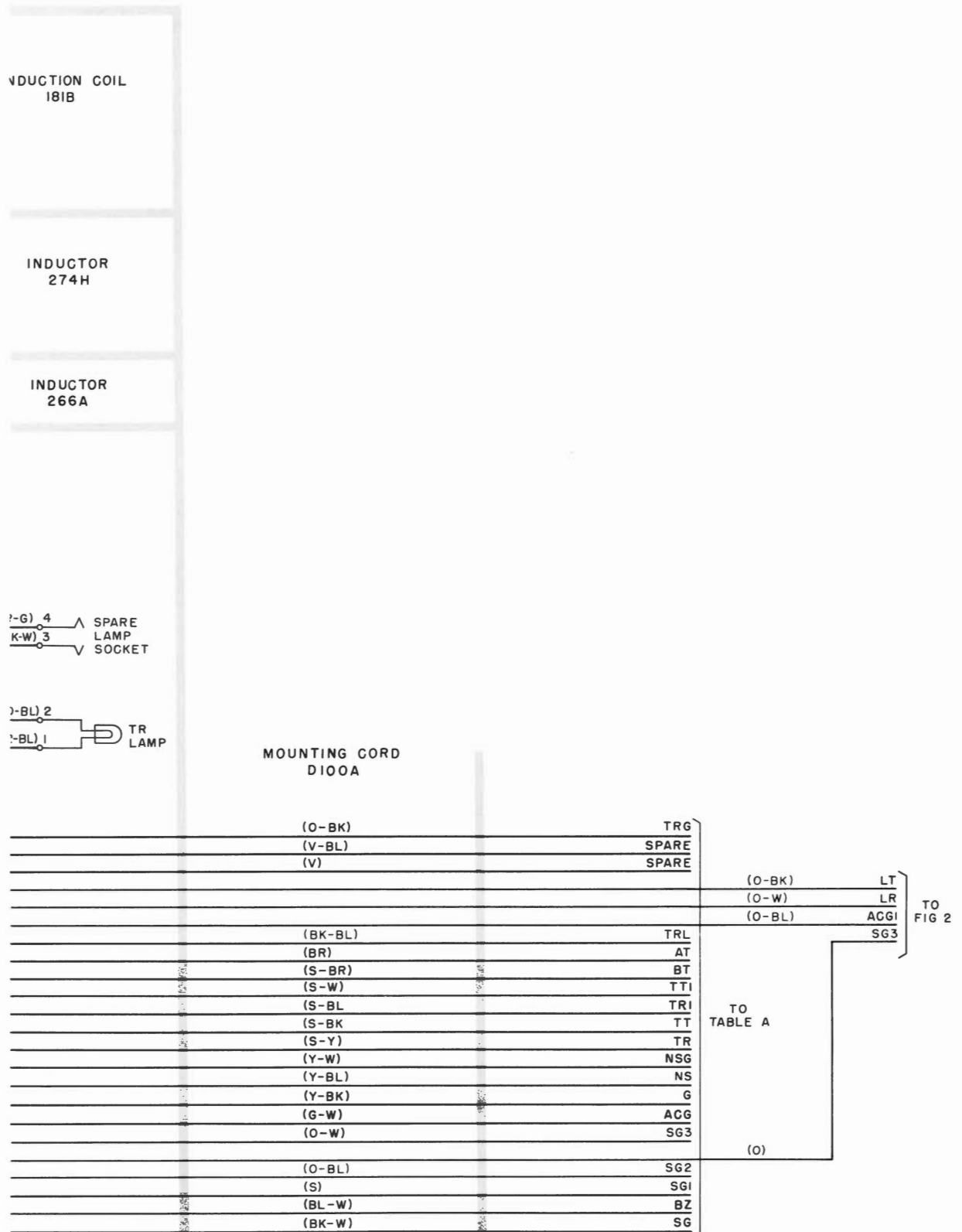


Fig. 1A - Attendant Telephone Circuit for 610B Telephone Set

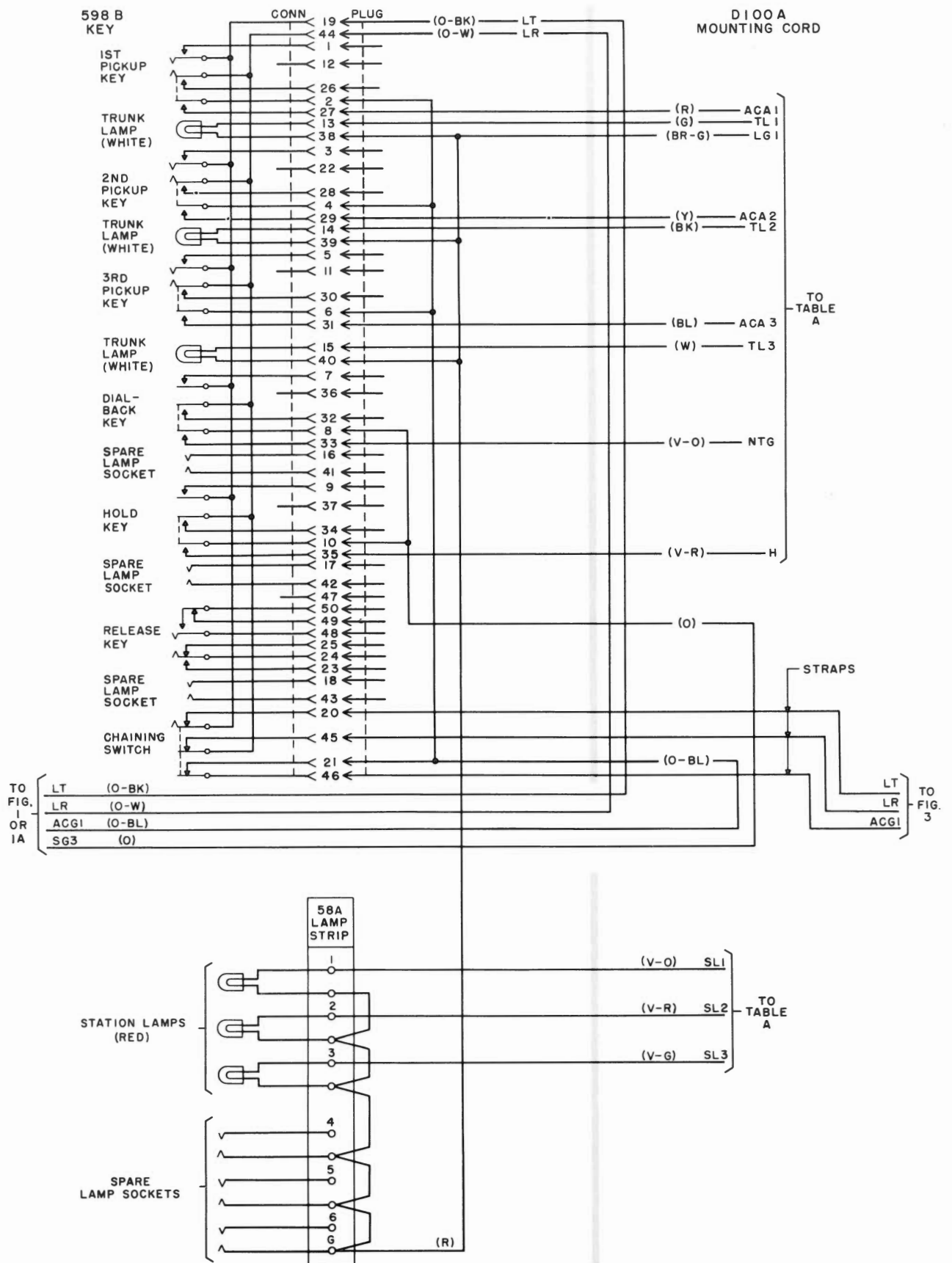


Fig. 2 - Right Key and Lamp Unit

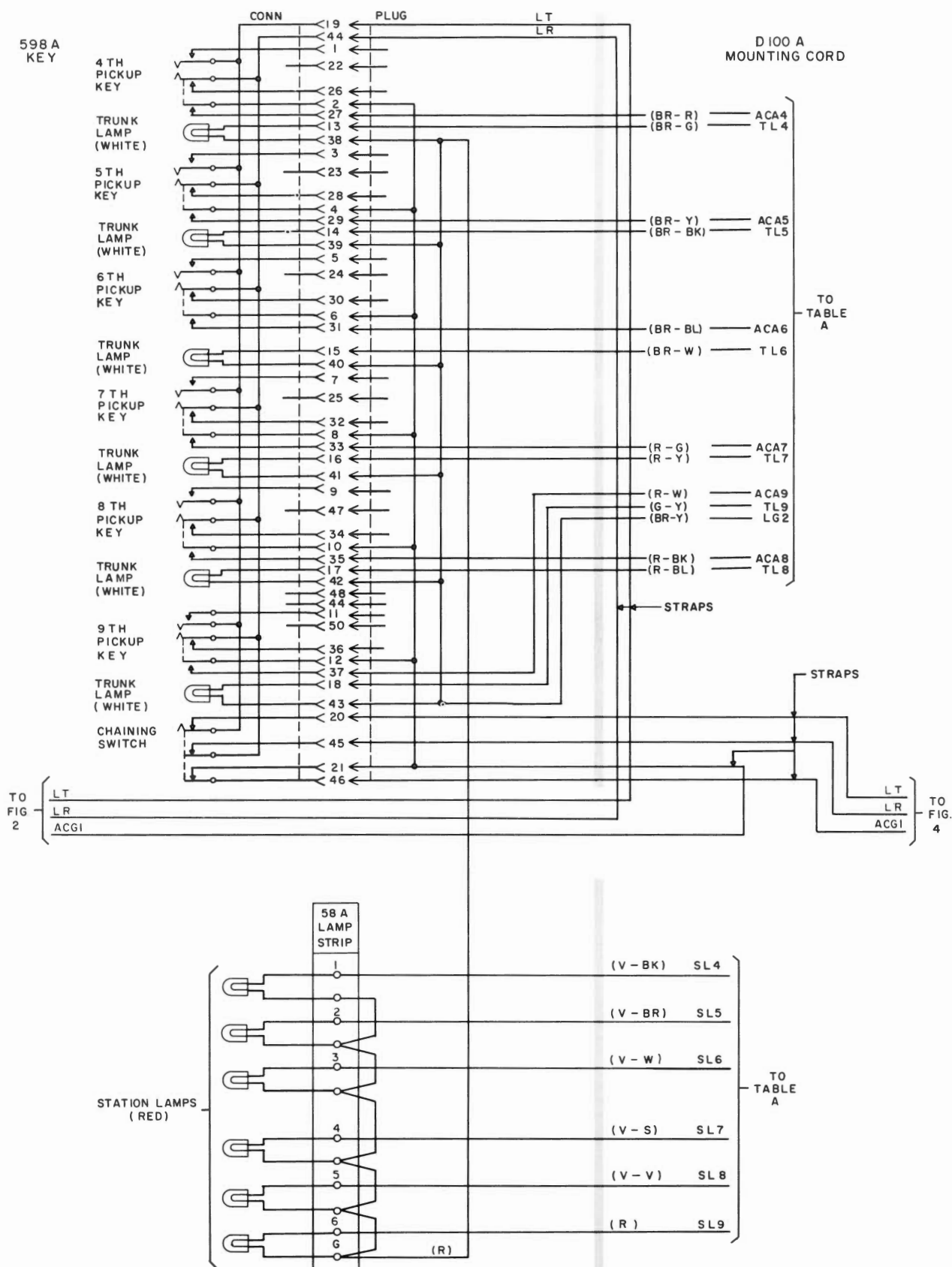


Fig. 3 - Center Key and Lamp Unit

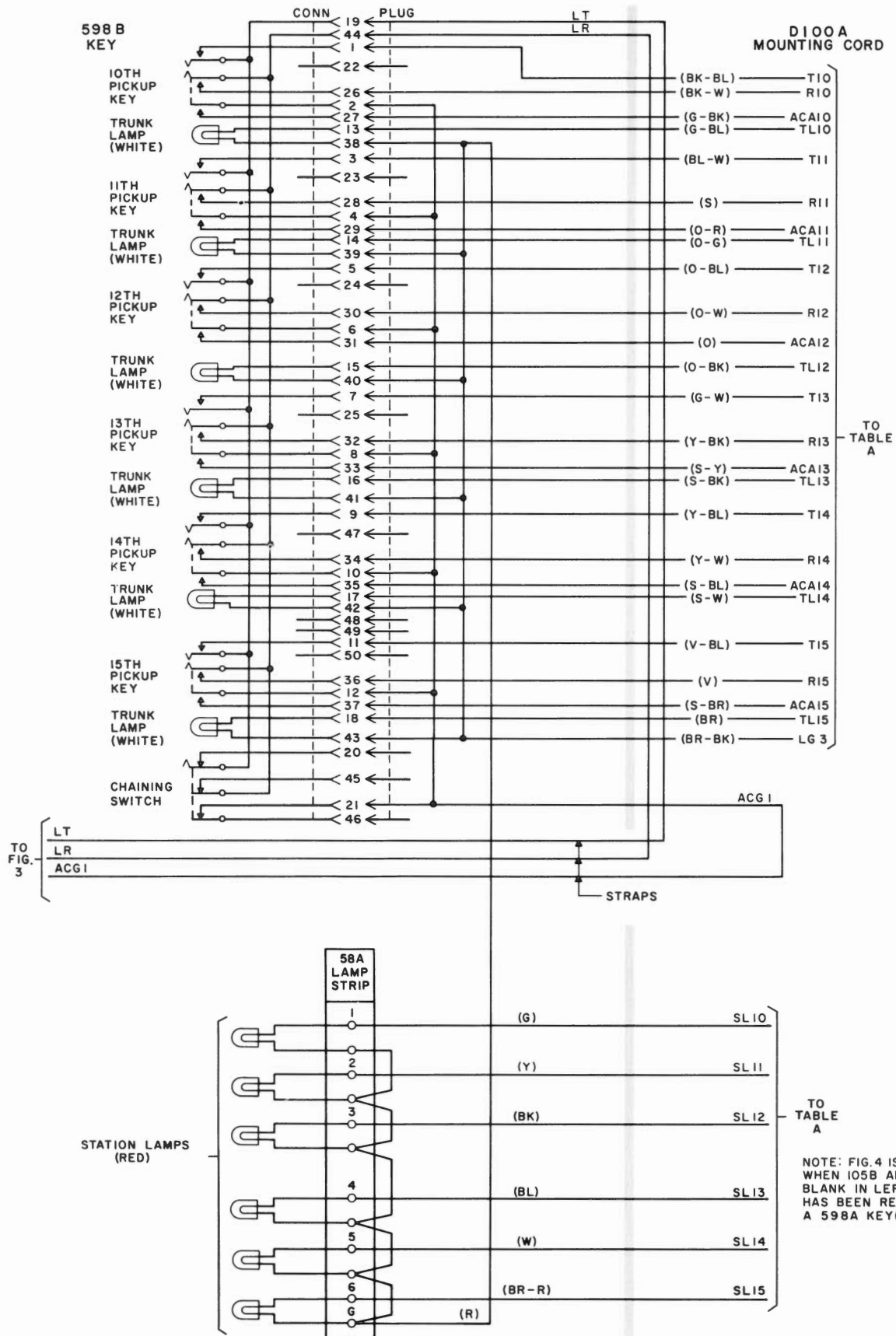


Fig. 4 - Left Key and Lamp Unit

FROM	D100A MOUNTING CORD					A50B CONNECTOR CABLE					
FIG. NO.	TERMINATION IN SET		LEAD DESIG	CORD CONDUCTOR COLOR	PIN NUMBER OF CORD CONNECTOR AND CABLE PLUG	CABLE CONDUCTOR COLOR	CABLE PAIR	CABLE BINDER COLOR	CONNECT TO		
	CONNECTION FOR	TERMINAL OR PIN NUMBER									
2	RIGHT KEY	27	ACA1	R	1	BL	1	BLUE	TRUNK CIRCUIT		
		13	TL1	G	26	W					
		29	ACA2	Y	2	O	2				
		14	TL2	BK	27	W					
		31	ACA3	BL	3	G	3				
		15	TL3	W	28	W					
3	CENTER KEY	27	ACA4	BR-R	4	BR	4				
		13	TL4	BR-G	29	W					
		29	ACA5	BR-Y	5	S	5				
		14	TL5	BR-BK	30	W					
		31	ACA6	BR-BL	6	BL	6				
		15	TL6	BR-W	31	R					
		33	ACA7	R-G	7	O	7				
		16	TL7	R-Y	32	R					
		35	ACA8	R-BK	8	G	8				
		17	TL8	R-BL	33	R					
		37	ACA9	R-W	9	BR	9				
		18	TL9	G-Y	34	R					
		4	LEFT KEY	27	ACA10	G-BK	10			S	10
				13	TL10	G-BL	35			R	
29	ACA11			O-R	11	BL	11				
14	TL11			O-G	36	BK					
31	ACA12			O	12	O	12				
15	TL12			O-BK	37	BK					
33	ACA13			S-Y	13	G	13				
16	TL13			S-BK	38	BK					
35	ACA14			S-BL	14	BR	14				
17	TL14			S-W	39	BK					
37	ACA15			S-BR	15	S	15				
18	TL15			BR	40	BK					
1	T10			BK-BL	16	BL	16				
26	R10			BK-W	41	Y					
3	T11			BL-W	17	O	17				
28	R11			S	42	Y					
5	T12			O-BL	18	G	18				
30	R12			O-W	43	Y					
7	T13			G-W	19	BR	19				
32	R13			Y-BK	44	Y					
9	T14			Y-BL	20	S	20				
34	R14			Y-W	45	Y					
11	T15			V-BL	21	BL	21				
36	R15			V	46	V					
2	58A LAMP STRIP			1	SL1	V-O	22		O	22	TRUNK CIRCUIT
				2	SL2	V-R	47		V		
		3	SL3	V-G	23	G	23				
3	58A LAMP STRIP	1	SL4	V-BK	48	V					
		2	SL5	V-BR	24	BR	24				
		3	SL6	V-W	49	V					
		4	SL7	V-S	25	S	25				
		5	SL8	V-Y	50	V					

FROM	
FIG. NO.	C
3	58A
4	58A
2	R
3	C
4	L
1 OR 1A	
2	I

NOTE: SPA

TABLE A
CONNECTIONS FOR 610-TYPE TELEPHONE SET

D100A MOUNTING CORD							
TERMINATION IN SET		LEAD DESIG	CORD CONDUCTOR COLOR	PIN NUMBER OF CORD CONNECTOR AND CABLE PLUG	CABLE CONDUCTOR COLOR	CABLE PAIR	CABLE BINDER COLOR
CONNECTION FOR	TERMINAL OR PIN NUMBER						
LAMP STRIP	6	SL9	R	1	BL	26	ORANGE
	1	SL10	G	26	W		
	2	SL11	Y	2	O	27	
LAMP STRIP	3	SL12	BK	27	W		
	4	SL13	BL	3	G	28	
	5	SL14	W	28	W		
	6	SL15	BR-R	4	BR	29	
RIGHT KEY	40	LG1	BR-G	29	W		
ENTER KEY	43	LG2	BR-Y	5	S	30	
LEFT KEY	43	LG3	BR-BK	30	W		
CONNECTOR AND CORD CONDUCTORS ARE SPARE			BR-BL	6	BL	31	
			BR-W	31	R		
			R-G	7	O	32	
			R-Y	32	R		
			R-BK	8	G	33	
			R-BL	33	R		
			R-W	9	BR	34	
			G-Y	34	R		
			G-BK	10	S	35	
			G-BL	35	R		
			O-R	11	BL	36	
			O-G	36	BK		
			O	12	O	37	
			O-BK	37	BK		
TS 2	19	TRG	O-BK	37	BK		
	7	TR	S-Y	13	G	38	
	8	TT	S-BK	38	BK		
	9	TR1	S-BL	14	BR	39	
	10	TT1	S-W	39	BK		
	11	BT	S-BR	15	S	40	
TS 1	12	AT	BR	40	BK		
	13	TRL	BK-BL	16	BL	41	
	1	SG	BK-W	41	Y		
	2	BZ	BL-W	17	O	42	
	3	SG1	S	42	Y		
	4	SG2	O-BL	18	G	43	
	5	SG3	O-W	43	Y		
	6	ACG	G-W	19	BR	44	
	7	G	Y-BK	44	Y		
TS 2	8	NS	Y-BL	20	S	45	
	9	NSG	Y-W	45	Y		
RIGHT KEY	18	SPARE LAMP	V-BL	21	BL	46	
	17	STRIP	V	46	V		
	33	NTG	V-O	22	O	47	
	35	H	V-R	47	V		
(SEE NOTE)	SPARE		V-G	23	G	48	
			V-BK	48	V		
			V-BR	24	BR	49	
			V-W	49	V		
			V-S	25	S	50	
			V-Y	50	V		

RE CONDUCTORS SHALL BE CUT DEAD AND OF SUFFICIENT LENGTH TO REACH FARTHEST TERMINAL IN SET.

A50B CONNECTOR CABLE
CONNECT TO
TRUNK CIRCUIT
AP GROUND
AP GROUND
CORDLESS POSITION CIRCUIT EQUIPMENT MOUNTED IN SLIDE 5 OR TO 1ST CORDLESS POSITION CIRCUIT
2ND CORDLESS POSITION CIRCUIT OR 6-BUTTON KEY TELEPHONE SET
CORDLESS POSITION CIRCUIT (BT INDUCTOR)
ALARM, TEST, AND TRANSFER CIRCUIT
AP GROUND, SG1 LEAD AT CORD SWITCHBOARD, OR 1ST CORDLESS POSITION CIRCUIT
POSITION CIRCUIT
SG LEAD OF 2ND CORDLESS POSITION CIRCUIT OR 6-BUTTON KEY TELEPHONE SET
DIAL PULSE REGISTER CIRCUIT (RELAYS POSITION 1 OR 2)
POSITION CIRCUIT RELAYS, CORD SWITCHBOARD, OR 1ST CORDLESS POSITION CIRCUIT
2ND CORDLESS POSITION CIRCUIT OR 6-BUTTON KEY TELEPHONE SET
ALARM, TEST, AND TRANSFER CIRCUIT
AP GROUND
CORDLESS POSITION CIRCUIT

Table A - Connections for 610-type Telephone Set