

TELEPHONE SETS

617 TYPE

CONNECTIONS

1.00 GENERAL

1.01 This section gives connection information for the 617A15-61 telephone set. It covers terminal board connections in the set as well as mounting cord and connector cable conductors and their associated plugs and connectors.

1.02 The 617A15-61 telephone set is similar in appearance to THE CALL DIRECTOR telephone set. It is equipped with an 8B dial (with a dial light) and five 598A keys. The set is also equipped with a 42A face plate, a D150K-61 cord, and a pair of 241C jacks to which a 52GR head telephone set or a G5LR-61 hand set is plugged.

1.03 The 598A keys are converted to nonlocking to operate as pushbutton keys. They use 51A lamps in all lamp positions.

1.04 The dial light in the telephone set circuit uses a 51A lamp.

2.00 APPLICATION

This set is intended for use in FAA installations where 2- and 4-wire operation, with push-to-talk control of the talk battery circuit, is desired.

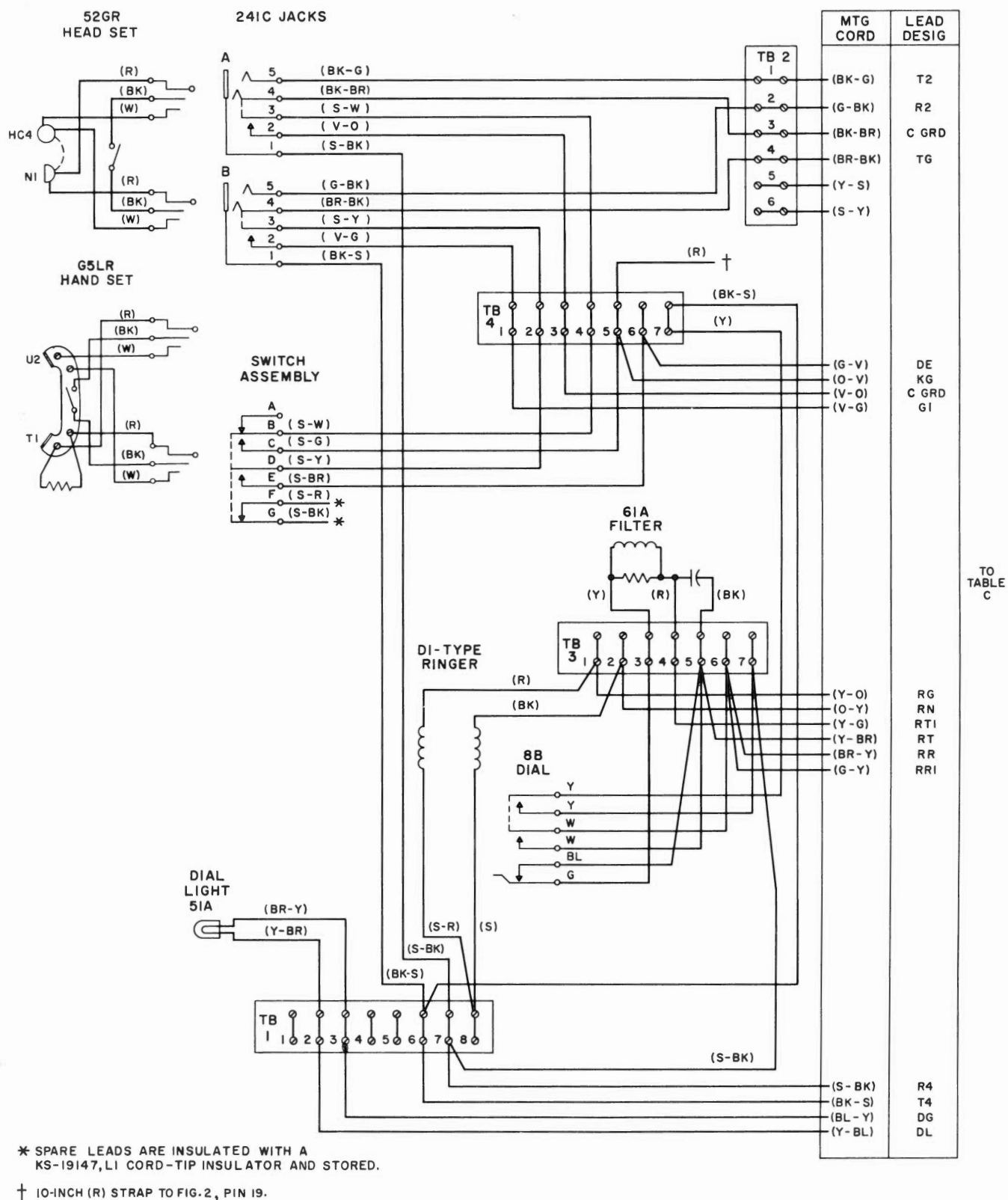


Fig. 1 - Telephone Set Circuit for 617A15 Telephone Set

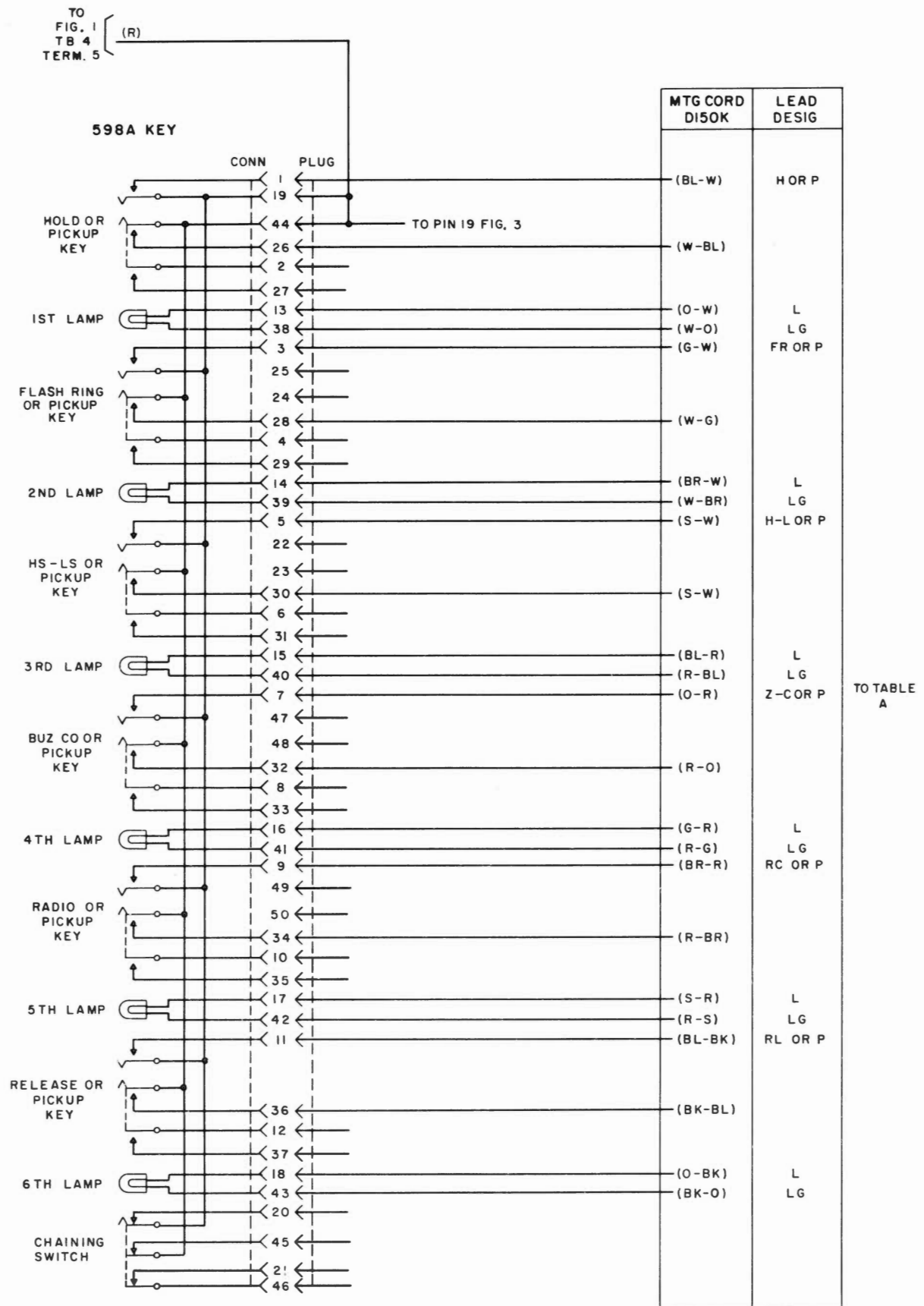


Fig. 2 - First Key Unit, Common Originating Key

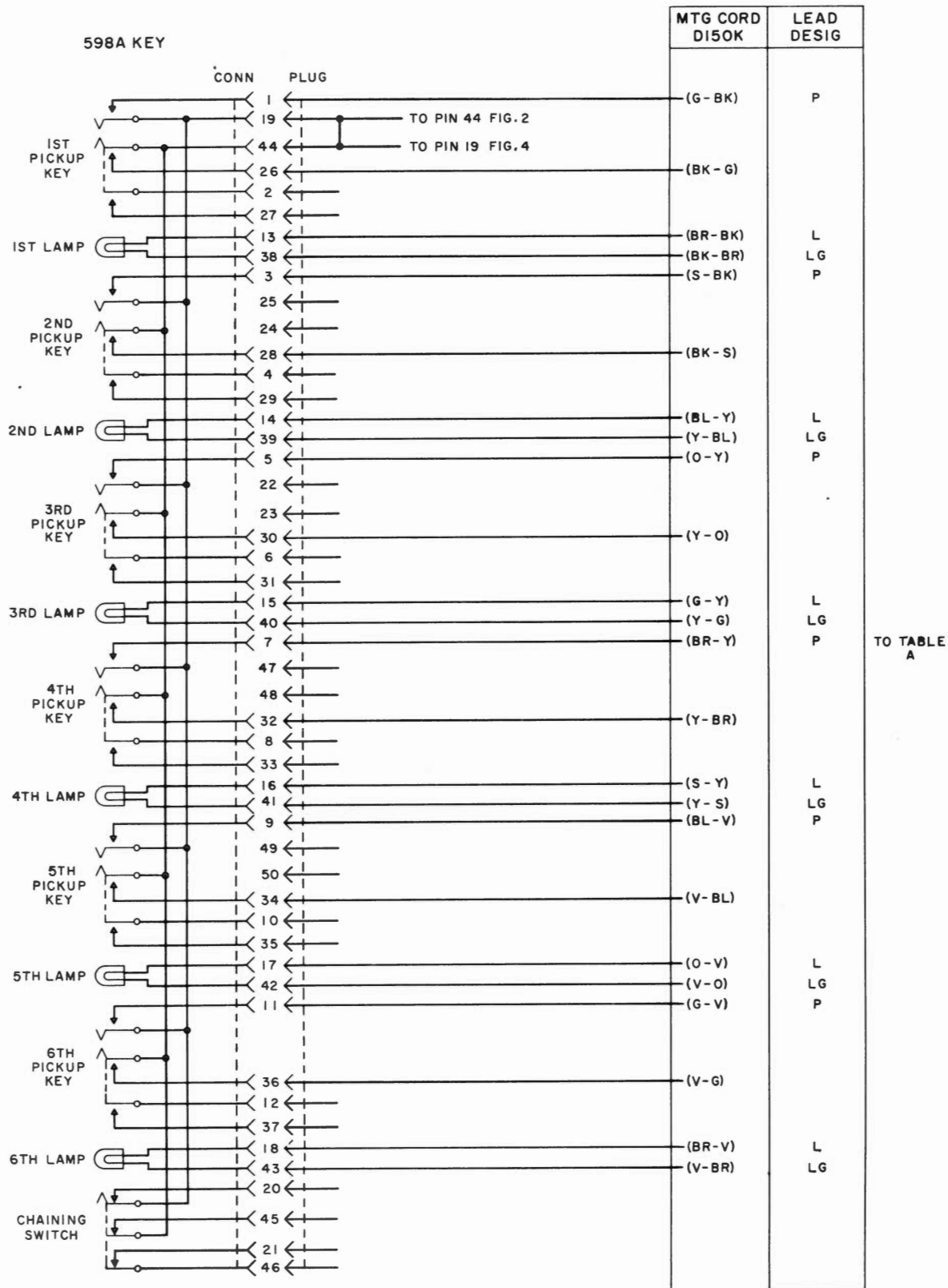


Fig. 3 - Second Key Unit

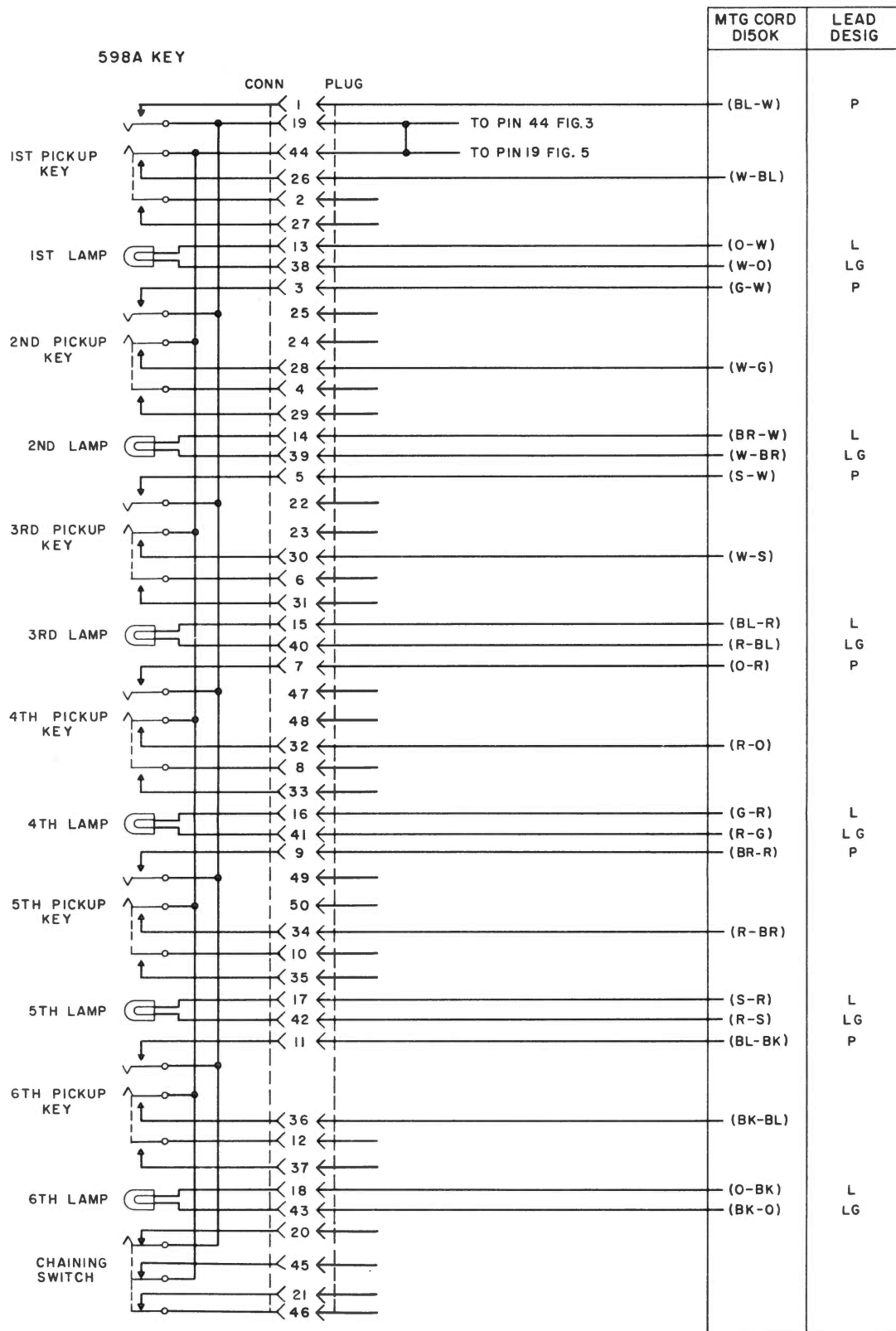


Fig. 4 - Third Key Unit

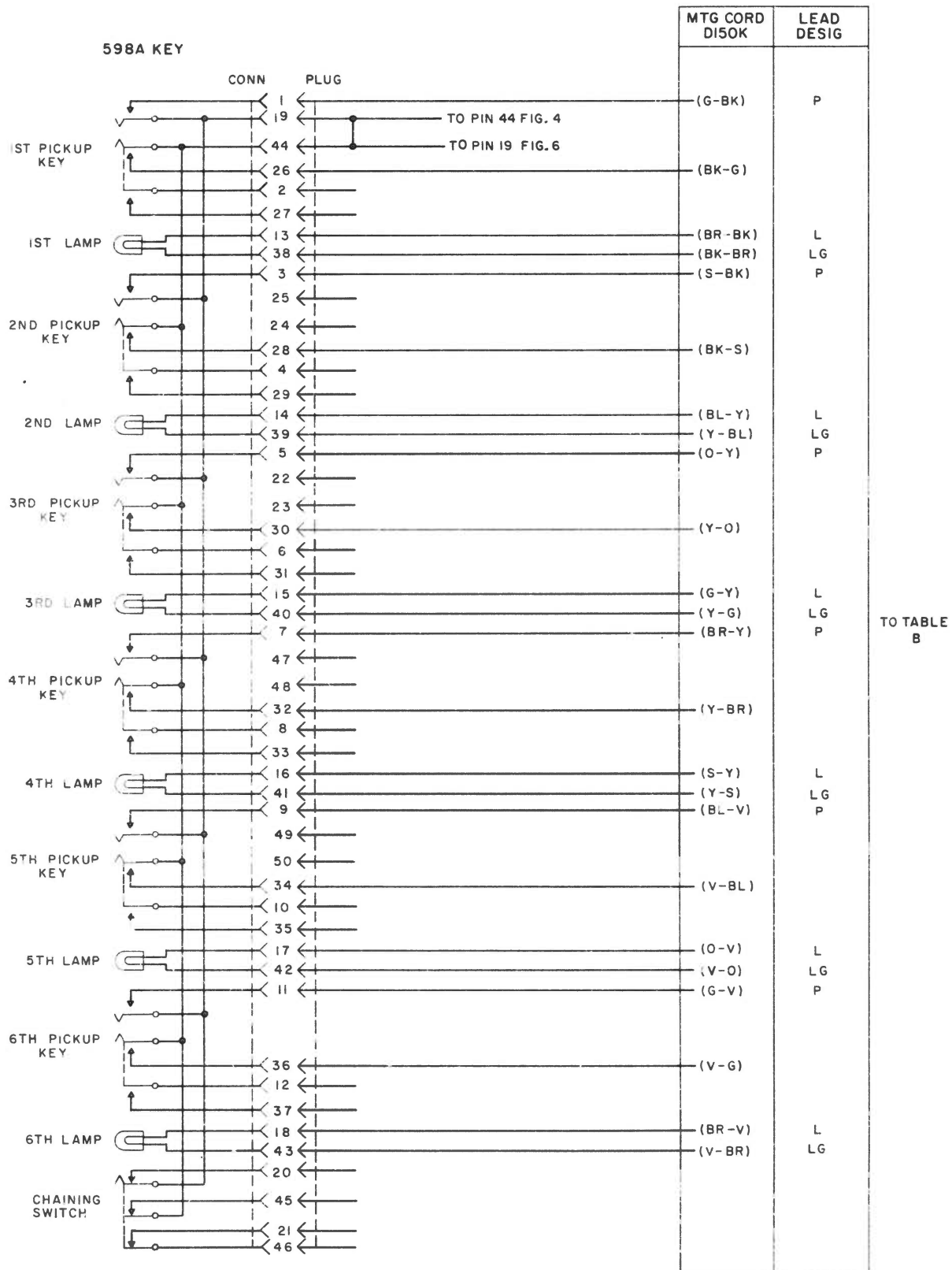


Fig. 5 - Fourth Key Unit

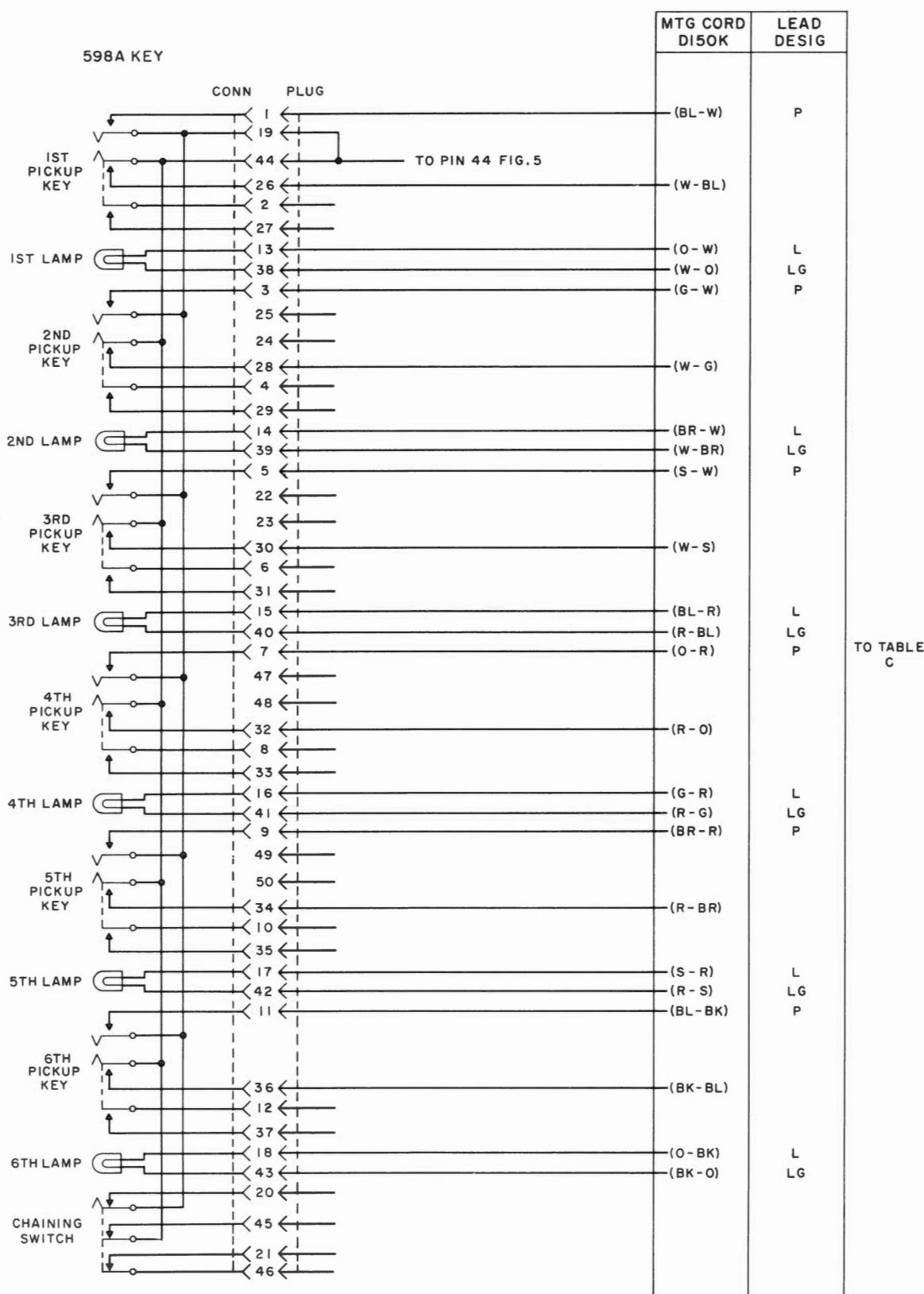


Fig. 6 - Fifth Key Unit

TABLE A
FIRST PLUG - BLUE SERVING

Termination in Set		Lead Desig	D150K Mtg Cord Lead Color	Pin No. of Mtg Cord and Connector Cable	A75A Connector Cable Lead Color	Connects to
Connection for	Term. or Pin No.					
1st Key Unit	1st Pos	1	H or P	BL-W	1	BL-W
		26	HI	W-BL	26	W-BL
		13	L	O-W	2	O-W
		38	LG	W-O	27	W-O
	2nd Pos	3	F or P	G-W	3	G-W
		28		W-G	28	W-G
		14	L	BR-W	4	BR-W
		39	LG	W-BR	29	W-BR
	3rd Pos	5	LS or P	S-W	5	S-W
		30		W-S	30	W-S
		15	L	BL-R	6	BL-R
		40	LG	R-BL	31	R-BL
	4th Pos	7	CO or P	O-R	7	O-R
		32		R-O	32	R-O
		16	L	G-R	8	G-R
		41	LG	R-G	33	R-G
	5th Pos	9	RC or P	RR-R	9	RR-R
		34		R-BR	34	R-BR
		17	L	S-R	10	S-R
		42	LG	R-S	35	R-S
	6th Pos	11	RL or P	BL-BK	11	BL-BK
		36		BK-BL	36	BK-BL
		18	L	O-BK	12	O-BK
		43	LG	BK-O	37	BK-O
2nd Key Unit	1st Pos	1	P	G-BK	13	G-BK
		26		BK-G	38	BK-G
		13	L	BR-BK	14	BR-BK
		38	LG	BK-BR	39	BK-BR
	2nd Pos	3	P	S-BK	15	S-BK
		28		BK-S	40	BK-S
		14	L	BL-Y	16	BL-Y
		39	LG	Y-BL	41	Y-BL
	3rd Pos	5	P	O-Y	17	O-Y
		30		Y-O	42	Y-O
		15	L	G-Y	18	G-Y
		40	LG	Y-G	43	Y-G
	4th Pos	7	P	BR-Y	19	BR-Y
		32		Y-BR	44	Y-BR
		16	L	S-Y	20	S-Y
		41	LG	Y-S	45	Y-S
	5th Pos	9	P	BL-V	21	BL-V
		34		V-BL	46	V-BL
		17	L	O-V	22	O-V
		42	LG	V-O	47	V-O
	6th Pos	11	P	G-V	23	G-V
		36		V-G	48	V-G
		18	L	BR-V	24	BR-V
		43	LG	V-BR	49	V-BR
Spare				S-V	25	S-V
				V-S	50	V-S

Line Selection Circuit
SD-69439-01

TABLE B
SECOND PLUG - ORANGE

Termination in Set		Lead Desig	D150K Mtg Cord Lead Color	Pin No. of Mtg Cord and Connector Cable
Connection for	Term. or Pin No.			
3rd Key Unit	1st Pos	1	P	BL-W
		26		W-BL
		13	L	O-W
		38	LG	W-O
	2nd Pos	3	P	G-W
		28		W-G
		14	L	BR-W
		39	LG	W-BR
	3rd Pos	5	P	S-W
		30		W-S
		15	L	BL-R
		40	LG	R-BL
	4th Pos	7	P	O-R
		32		R-O
		16	L	G-R
		41	LG	R-G
	5th Pos	9	P	RR-R
		34		R-BR
		17	L	S-R
		42	LG	R-S
	6th Pos	11	P	BL-BK
		36		BK-BL
		18	L	O-BK
		43	LG	BK-O
4th Key Unit	1st Pos	1	P	G-BK
		26		BK-G
		13	L	BR-BK
		38	LG	BK-BR
	2nd Pos	3	P	S-BK
		28		BK-S
		14	L	BL-Y
		39	LG	Y-BL
	3rd Pos	5	P	O-Y
		30		Y-O
		15	L	G-Y
		40	LG	Y-G
	4th Pos	7	P	BR-Y
		32		Y-BR
		16	L	S-Y
		41	LG	Y-S
	5th Pos	9	P	BL-V
		34		V-BL
		17	L	O-V
		42	LG	V-O
	6th Pos	11	P	G-V
		36		V-G
		18	L	BR-V
		43	LG	V-BR
Spare				S-V
				V-S

SERVING

o. rd tor e	A75A Connector Cable Lead Color	Connects to
	BL-W	Line Selection Circuit SD-69439-01
	W-BL	
	O-W	
	W-O	
	G-W	
	W-G	
	BR-W	
	W-BR	
	S-W	
	W-S	
	BL-R	
	R-BL	
	O-R	
	R-O	
	G-R	
	R-G	
	BK-R	
	R-BR	
	S-R	
	R-S	
	BL-BK	
	BK-BL	
	O-BK	
	BK-O	
	G-BK	
	BK-G	
	BR-BK	
	BK-BR	
	S-BK	
	BK-S	
	BL-Y	
	Y-BL	
	O-Y	
	Y-O	
	G-Y	
	Y-G	
	BR-Y	
	Y-BR	
	S-Y	
	Y-S	
	BL-V	
	V-BL	
	O-V	
	V-O	
	G-V	
	V-G	
	BR-V	
	V-BR	
	S-V	
	V-S	

TABLE C
THIRD PLUG - GREEN SERVING

Termination in Set		Lead Desig	D150K Mtg Cord Lead Color	Pin No. of Mtg Cord and Connector Cable	A75A Connector Cable Lead Color	Connects to
Connection for	Term. or Pin No.					
5th Key Unit	1st Pos	1	P	BL-W	1	BL-W
		26		W-BL	26	W-BL
		13	L	O-W	2	O-W
		38	LG	W-O	27	W-O
	2nd Pos	3	P	G-W	3	G-W
		28		W-G	28	W-G
		14	L	BR-W	4	BR-W
		39	LG	W-BR	29	W-BR
	3rd Pos	5	P	S-W	5	S-W
		30		W-S	30	W-S
		15	L	BL-R	6	BL-R
		40	LG	R-BL	31	R-BL
	4th Pos	7	P	O-R	7	O-R
		32		R-O	32	R-O
		16	L	G-R	8	G-R
		41	LG	R-G	33	R-G
	5th Pos	9	P	BR-R	9	BR-R
		34		R-BR	34	R-BR
		17	L	S-R	10	S-R
		42	LG	R-S	35	R-S
	6th Pos	11	P	BL-BK	11	BL-BK
		36		BK-BL	36	BK-BL
		18	L	O-BK	12	O-BK
		43	LG	BK-O	37	BK-O
TB 2		2	T2	G-BK	13	G-BK
		1	T1	BK-G	38	BK-G
		4	TG	BR-BK	14	BR-BK
		3	C GRD	BK-BR	39	BK-BR
TB 1		7	R1	S-BK	15	S-BK
		6	R2	BK-S	40	BK-S
		3	DG	BL-Y	16	BL-Y
		2	DL	Y-BL	41	Y-BL
TB 3		2	RN	O-Y	17	O-Y
		1	RG	Y-O	42	Y-O
		6	T1	G-Y	18	G-Y
		4	R1	Y-G	43	Y-G
		6	T	BR-Y	19	BR-Y
Spare		5	R2	Y-BR	44	Y-BR
				S-Y	20	S-Y
				Y-S	45	Y-S
				BL-V	21	BL-V
				V-BL	46	V-BL
TB 4		5	KG	O-V	22	O-V
		3	C GRD	V-O	47	V-O
		6	DE	G-V	23	G-V
		1	G1	V-G	48	V-G
Spare				BR-V	24	BR-V
				V-BR	47	V-BR
				S-V	25	S-V
				V-S	50	V-S

Tables A, B, C