

1A KEY TELEPHONE SYSTEM

POWER SUPPLY CONNECTIONS

1.00 GENERAL

1.01 Power connections for the various power leads to key telephone units commonly used with the 1A key telephone system are shown in Fig. 1.

1.02 The type of power source used will be determined locally.

1.03 When the J86731A, List 4 or List 6 power plant is used, no additional fusing is required if it serves only one system.

1.04 When central office or building battery is used, fuse as shown in Fig. 1, Table C.

2.00 CONNECTIONS (See Fig. 1)

TABLE A
POWER SUPPLY CONNECTIONS
TO KEY TELEPHONE UNITS

Power Supply					Key Telephone Unit																														
CO, Bldg, or Local Bat. 14 to 26 Volts dc	393-type Trans or Power Plant J86731B, L1	Trans KS-5714	Power Plant J86731A, L6	Lead Desig	2A	3A	6B or 6C	7A	10A	13C	14A	15D	16A	17B	18D or 18E	19B	20A	25B	26B	30A	31A	33A	51A		52A	53A	54A	55A	56A TS K3	57A					
					Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal
*	*	*	20-volt dc Talk	BAT.	3	3		3	3	3		3		3	3	3		3	3	3, 4, 9	3	3	19	19, 20	19	19	19	19	19	16		19			
				GRD	1				1	1					1	1		1	1		1		1		13	13, 14	13	13	13	13	13	14		20	
			20-volt dc Signal	BAT.																															22
				GRD																															21
		18 volts ac	18 volts ac	±					9	6	6	9							6							16								25	
				GRD						9	11	1							7								22								24
		10 volts ac	10 volts ac	±			3		15	3	12												12		18	18	18	18	18	18					3
				GRD			2		7	1	1													5		15	15	15	15	15	15				

* See Table C for fusing connections.

TABLE C
CIRCUIT FUSE UNIT
CONNECTIONS

Fusing at Equipment*		
CO or Bldg Bat.	Screw Term. on 21A KTU	
Lead Desig	From Supply	To Cr't
BAT.	B	1
		2
		3
		4
		5
		6
GRD	7	7
		8
		9

* See Notes 1, 2, 3, and 4.

Note 1: Local battery fused at supply only.

Note 2: When the maximum current supplied to a system does not exceed 1.6 amp and the fuses at central office or building battery supply are readily accessible, no circuit fuses at equipment are required.

Note 3: Provide one 2-amp fuse for each circuit with current drain not to exceed 1.6 amp.

Note 4: If the lamp battery supply is 48 volts dc from central office, fuse with 1-1/3 amp.

TABLE B
LEAD DESIGNATIONS TO KEY TELEPHONE UNITS

Power Source	Lead Desig	Key Telephone Unit									
		11A	7A	13C	14A	15D	16A	20A	51A TS B	54A	57A TS A
		Terminal									
CO Generator, Static Generator, J86731A, L4 or L5 Power Plant	±	4	7	9	6	6	9	6	16	24	25
	GRD	1	6		9	11	1	7	22	16	24

Fig. 1 – 1A Key Telephone System Power Supply Connections