

**RECORDER CONNECTOR — 50 TYPE
 CONNECTIONS**

**TABLE A
 SELECTION OF APPARATUS**

Specific Use of Recorder	Type Telephone Equipment	1 Each Per Installation	1 Each Per Station
Recording on individual central office or PBX line	300- or 500-type telephone set, etc		Fig. 4, 7
Recording on any line terminated in key set	1A key telephone system, 400- or 460-type telephone set		Fig. 4, 11, 11A
	1A key telephone system, 540- or 560-type telephone set		Fig. 4, 12
	1A1 key telephone system, 440- or 460-type telephone set		Fig. 4, 11, 11B
	1A1 key telephone system, 540- or 560-type telephone set		Fig. 4, 12
Recording on any line terminated in two or more key sets	1A key telephone system, 440- or 460-type telephone set	Fig. 2, 4, 5*	Fig. 1, 3, 11, 11A
	1A key telephone system, 540- or 560-type telephone set	Fig. 2, 4, 5*	Fig. 1, 2, 3
	1A1 key telephone system, 440- or 460-type telephone set	Fig. 2, 4, 5*	Fig. 1, 3, 11, 11B
	1A1 key telephone system, 540- or 560-type telephone set	Fig. 2, 4, 5*	Fig. 1, 3, 12
Recording on any line terminated in attendant position	100-type key equipment attendant position		Fig. 4, 9
	101-type key equipment attendant position		Fig. 4, 10
	600 series telephone set		Fig. 4, 8
Recording on any line terminated in two or more attendant positions	100-type key equipment attendant position	Fig. 2, 4, 5*	Fig. 1, 3, 9
	101-type key equipment attendant position	Fig. 2, 4, 5*	Fig. 1, 3, 10
	600 series telephone set	Fig. 2, 4, 5*	Fig. 1, 3, 8
Recording at several station locations using portable recorder connector	Regular station apparatus	Fig. 4, 13	Fig. 15
Recording at cord-type PBX using portable jack box and recorder connector	Cord-type PBX attendant position	Fig. 4, 13, 14	
Recording at cord-type PBX using permanent recorder connector	Cord-type PBX attendant position	Fig. 4, 6	

* Use Fig. 5 when automatic start and stop of recorder is required.

TABLE B
CIRCUIT REQUIREMENTS
SWITCHING CIRCUIT FOR RECORDER CONNECTOR

Apparatus			Mech Reqt			Circuit Preparation			Test Set Prep	See Test Note	Direct Current Flow Reqt				Remarks	
Desig	Code	Fig.	BSP Fig.	Cont Press.	Arm. Trvl	Block or Insulate	Test Clip Data				Test Wdg	Test For	Test ma	Readj ma		Reqt
							Conn Bat.	Conn Grd								
L	U290	1	102/108	H	53	L1 NO		TF L	GRD		P	O	44.5	42		
							BR L			1	S	O	71.5			
L1	U298	1	130/130	H	44			T L1	GRD			O	50	47.5		
W	U652	2	110/110	H	35							O	33.5	32	For wdg alone	
												R	8.4	8		
						Z NO		T W	GRD	2		O	70	67	For ckt comb. of W and Z relays	
						Z NO		T W	GRD			R	15.5	14.5		
Z	U203	2	108/106	H	47							O	30	28	For wdg alone	
						W O		T Z	GRD	2		O	53.5	51	For ckt comb. of W and Z relays	
RS	KS-8232, L3	5						RW RS	BAT.			O	13.1	12.4		

Test Notes:

1. Remove lamp from indicator.
2. Insulate 2T W and 3T W. All a contacts shall make before b contacts break.

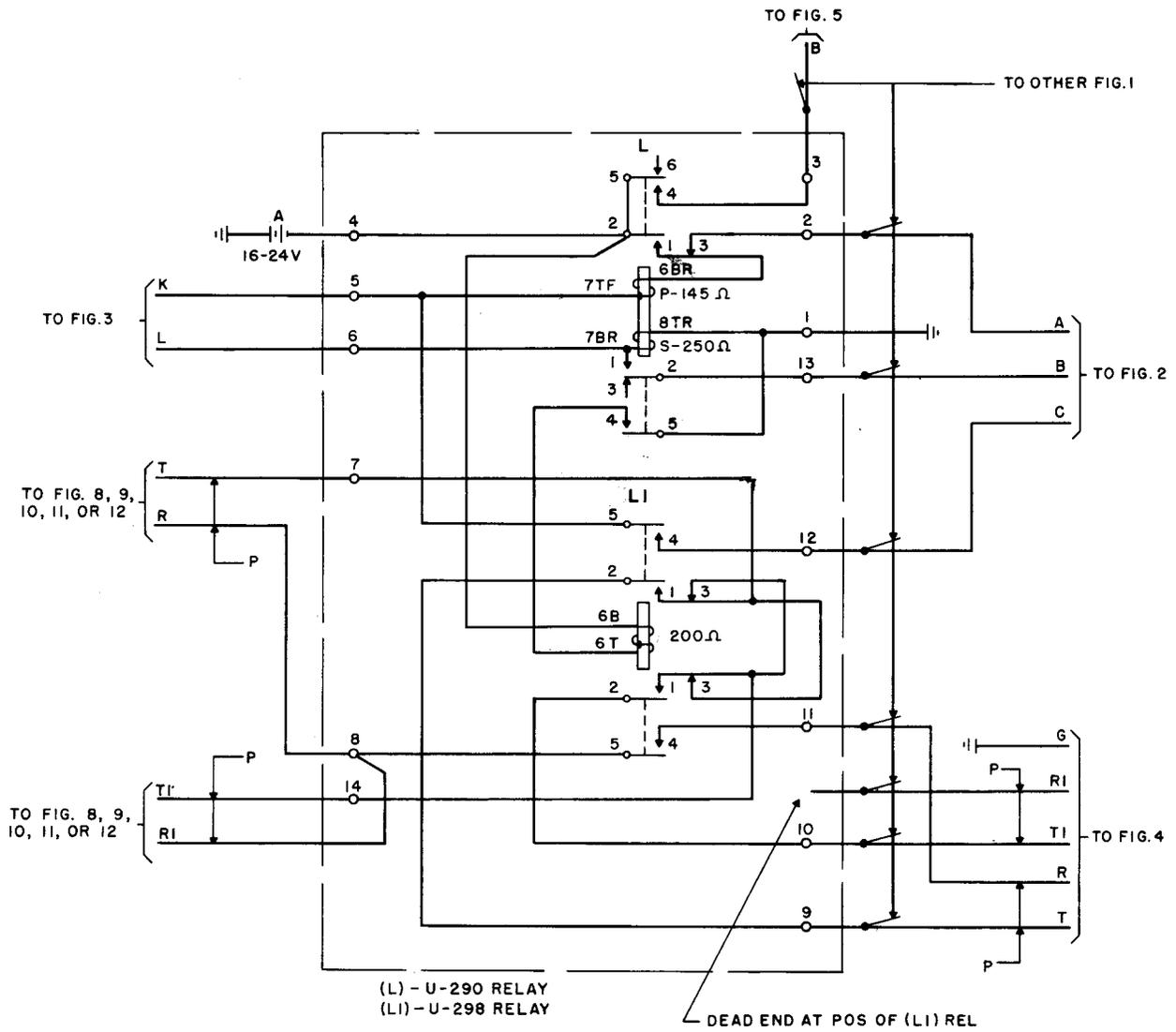


Fig. 1 - Line Circuit (See Note 4)

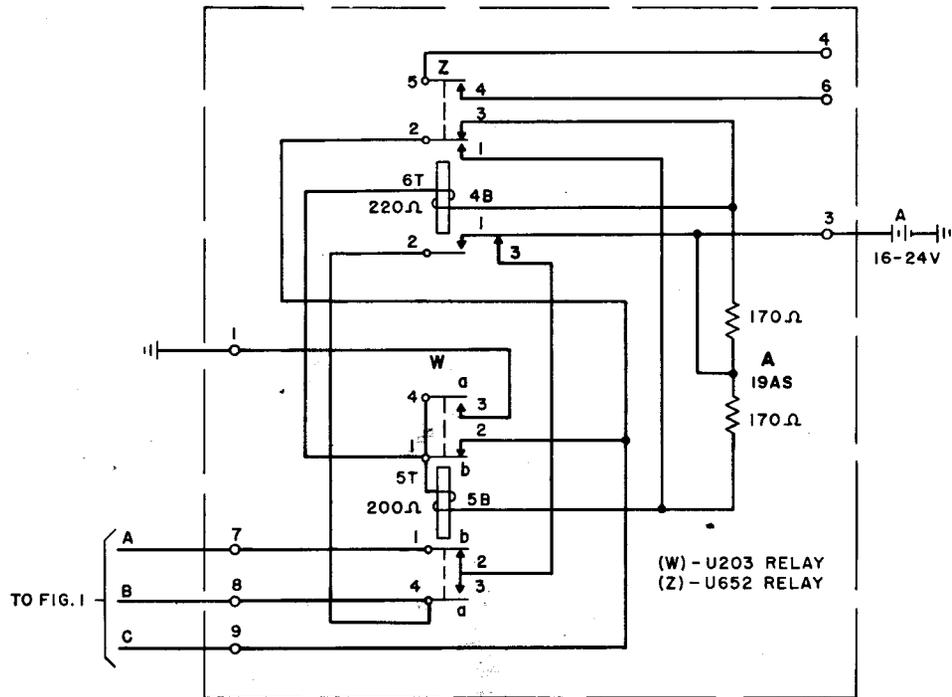


Fig. 2 - Lockout Circuit (See Notes 3 and 4)

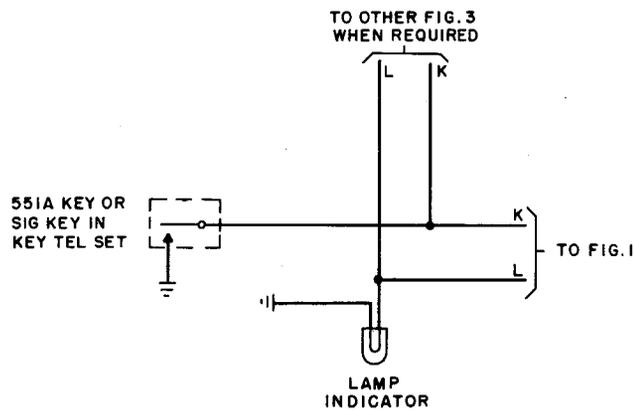


Fig. 3 - Key and Lamp Circuit

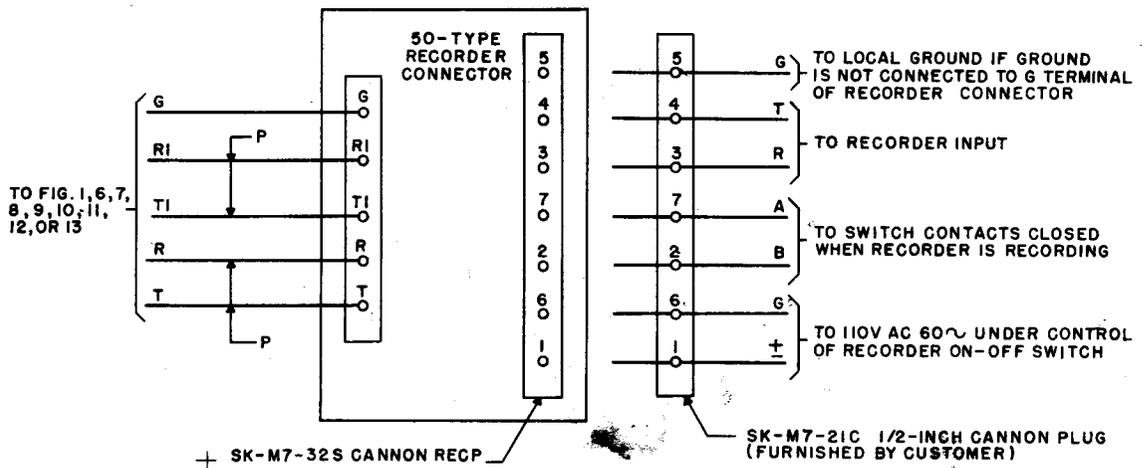


Fig. 4 - Recorder Connector and Coupling Cable

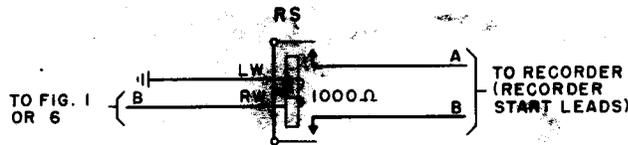


Fig. 5 - Recorder Start Circuit

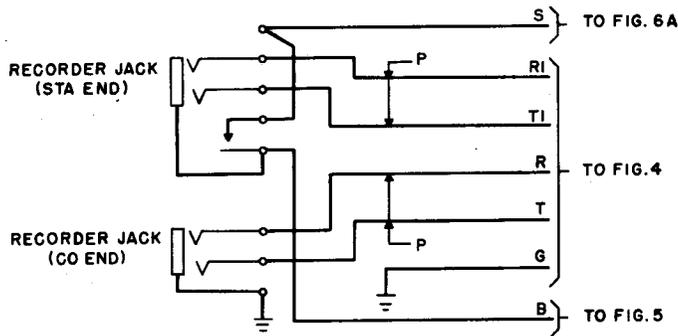


Fig. 6 - Connecting Circuit for Cord-type PBX (See Note 1)

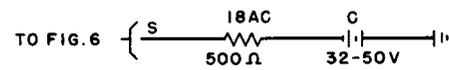


Fig. 6A - (See Note 2)

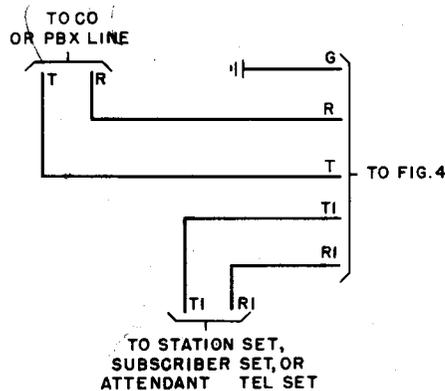


Fig. 7 - Line Connection Circuit

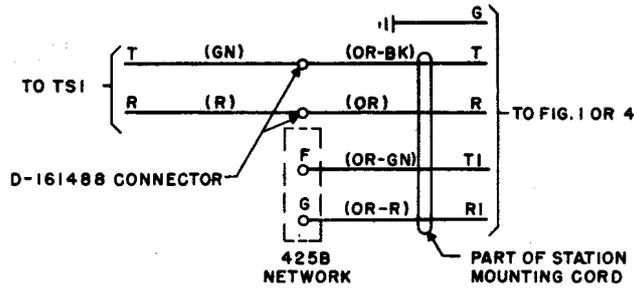


Fig. 8 - Modification of 600 Series Telephone Set (See Note 5)

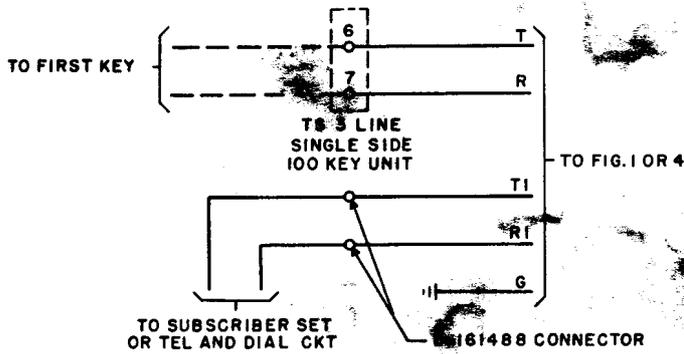


Fig. 9 - Modification of 100-type Key Unit

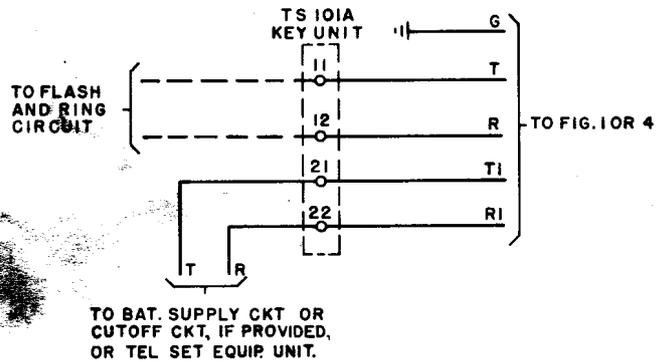


Fig. 10 - Modification of 101-type Key Unit

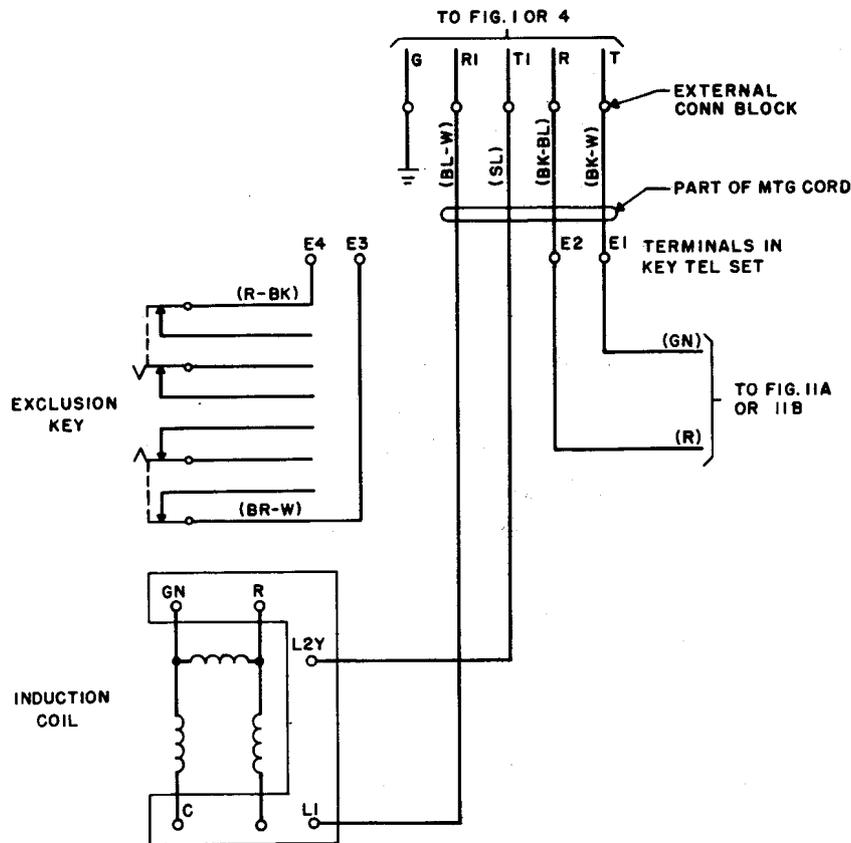


Fig. 11 - Modification of 400-type Key Telephone Set (See Note 6)

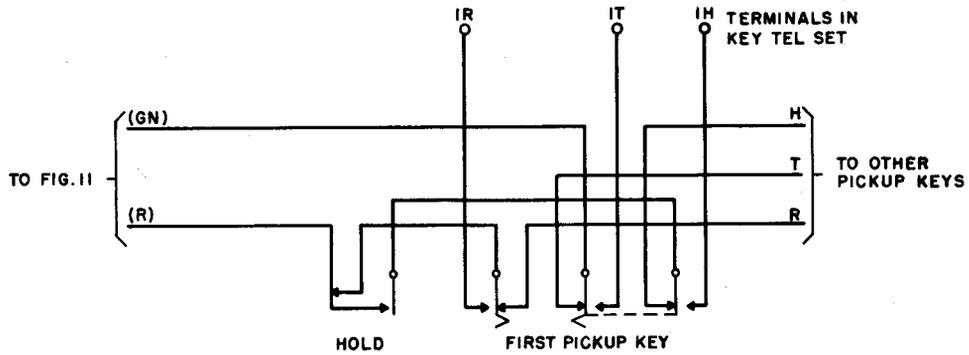


Fig. 11A - 1A Key Telephone Set

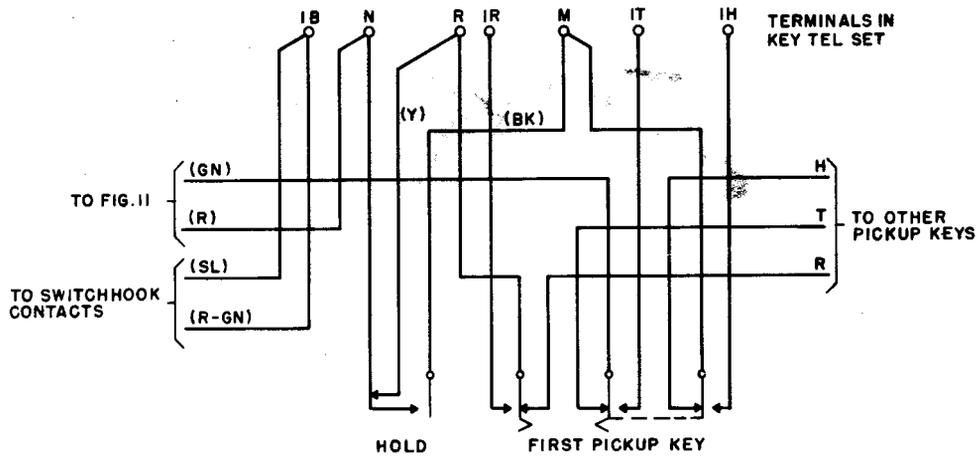


Fig. 11B - Combination 1A and 1A1 Key Telephone Set

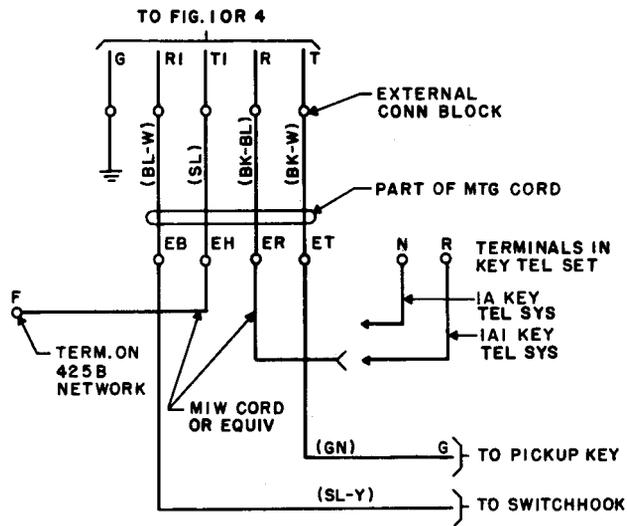


Fig. 12 - Modification of 500-type Key Telephone Set Using SD-69219-01, Fig. 5 (See Note 6)

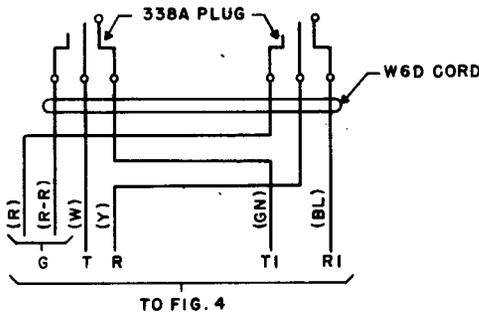


Fig. 13 - Plug Arrangement for Portable Recorder Connector

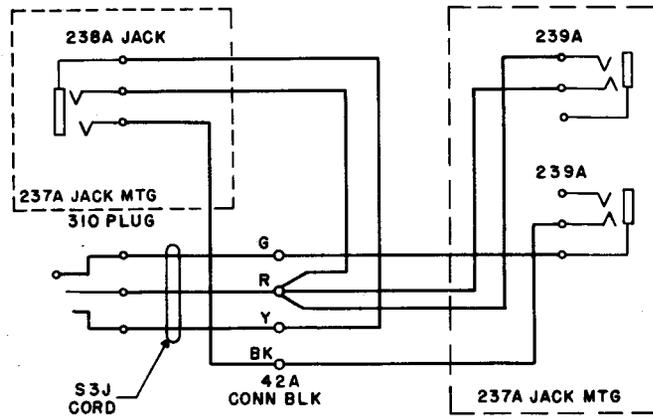


Fig. 14 - Portable Jack Box

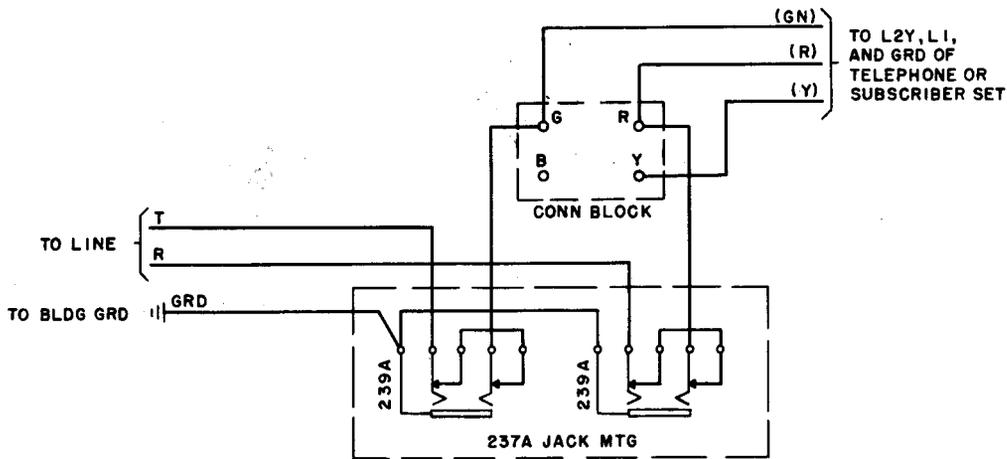


Fig. 15 - Jack Arrangement for Stations Using Portable Recorder Connector

Note 1: When this arrangement is used, PBX must be wired for nonthrough supervision.

Note 2: Provide Fig. 6A when recorder connector is used with 552A, 552B, 552D, 552E, 605A, or 701A PBX, using cord circuit drawing SD-66198-01.

Note 3: On relay *W*, Fig. 2, *a* contacts shall make before *b* contacts break.

Note 4: The relays in this system may be mounted on 8C key telephone units and assembled in 105A apparatus boxes.

Note 5: With this arrangement, neither hold key conversion to pickup key nor 1A answering set features may be used.

Note 6: Use exclusion-type telephone sets to provide sufficient number of cord conductors and connection points. Exclusion feature cannot be used with this arrangement.