

INSTALLATION
(MANUAL AUXILIARY FOR 756A PBX)
556A PBX

	PAGE
1. GENERAL	1
2. APPARATUS	1
3. REQUIREMENTS AND METHODS	1
Placing the PBX	1
Placing Cross-Connecting Terminal	3
Cabling Between Cross-Connecting Terminal and PBX	4
Lettering and Numbering	7
Terminating Cables at 556A PBX	7
Power Supply	7
Miscellaneous Equipment	7
4. PLACING IN SERVICE	9
Cord Circuits	9
5. FINAL TESTS AND INSPECTIONS	9

1. GENERAL

- 1.01** This section covers the general requirements and methods for installing the 556A PBX when used with the 756A PBX as a manual auxiliary attendant position.
- 1.02** Information for installing the 556A PBX was previously contained in Section B556.201, Issue 1.
- 1.03** For information concerning the preparation for installing the 556A PBX see Section B523.211.
- 1.04** The 556A PBX when used with the 756A PBX is arranged on a package basis as shown in Table A.

TABLE A — 556A PBX PACKAGE FOR USE WITH 756A PBX		
EQUIPMENT	NO.	NOTES
Dial Station Lines	60	
Attendant Trunks	3	
Manual CO Trunks	6	1
Cord Circuits	8	2

Note 1: Provision is made for adding four additional plug-in CO trunks.

Note 2: Provision is made for adding seven additional plug-in cord units.

1.05 Fig. 1 shows a front view of the 556A PBX.

2. APPARATUS

- 2.01** Tools normally required for installing a PBX.
- 2.02** Material required for protecting the customer's premises and the equipment during installation.

3. REQUIREMENTS AND METHODS

Placing the PBX

- 3.01** The basic switchboard is constructed of a steel inner framework on which the equipment given in Table A is carried. A writing shelf is shipped dismantled to facilitate packing. A wooden casing of the desired finish must be ordered separately.
- 3.02** The PBX should be unpacked and assembled as near the selected location as possible to prevent damage to the equipment.

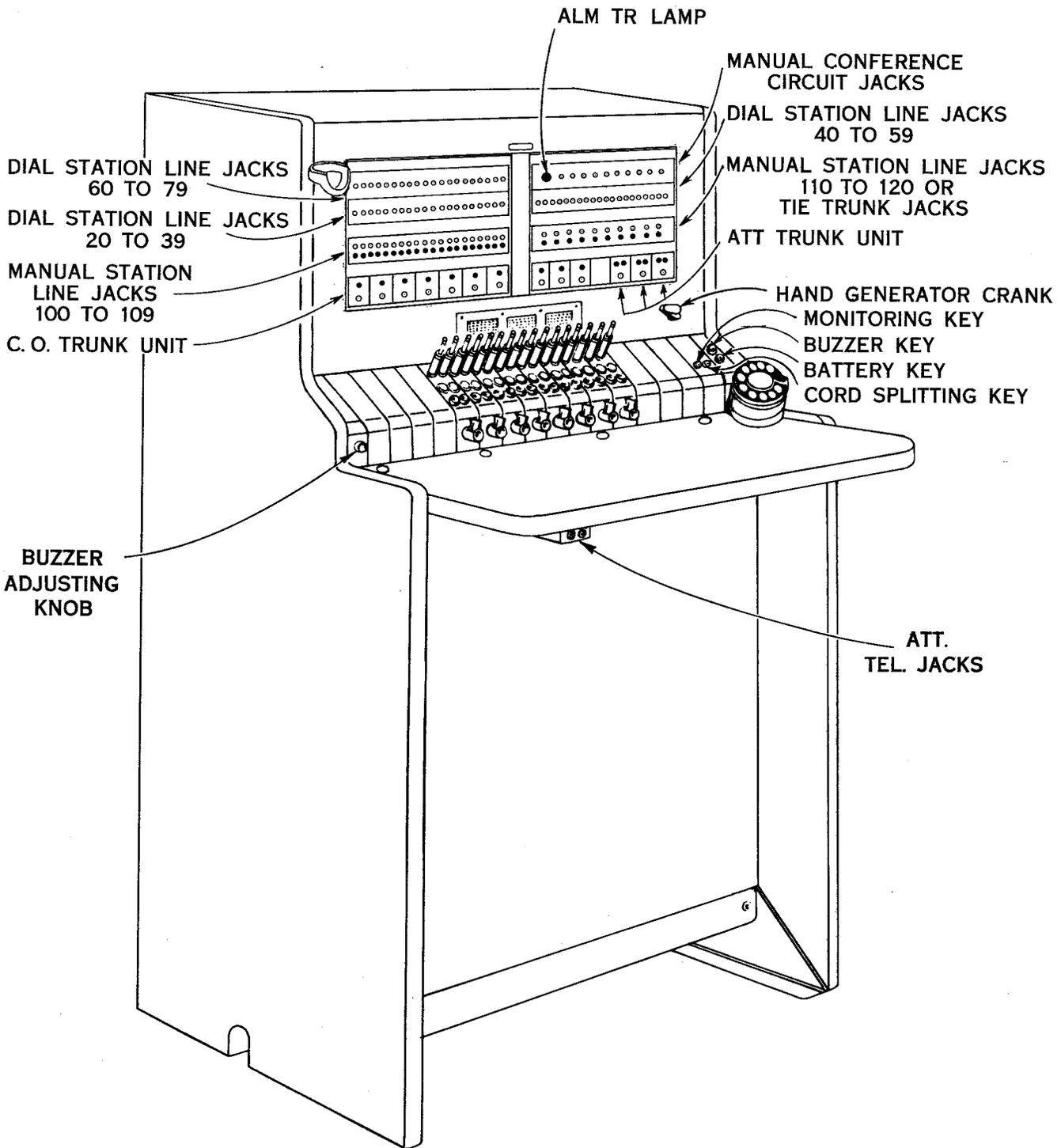


Fig. 1 - 556A Switchboard with Wooden Casing

3.03 Place the PBX in the location designated by the job instructions. The PBX should stand approximately level.

3.04 When the PBX is to be located on a metal surface such as the inserts used for terrazzo floors, insulate the framework by means of insulating strips as shown in Fig. 2.

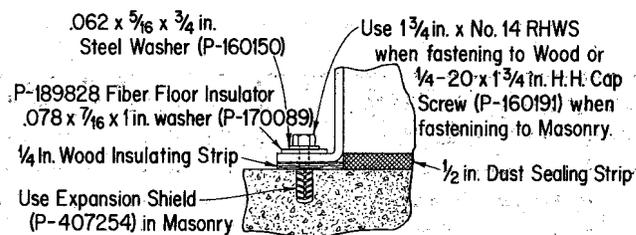


Fig. 2 — Method of Fastening 556A PBX

3.05 When the PBX is to be installed on a floor covered with an insulating material which may have metal concealed under it, insulating strips are not required. The fiber floor insulator washers furnished with the PBX provide insulation for the framework in all cases.

3.06 Fasten the PBX to the floor as shown in Fig. 2. The PBX should stand approximately level.

Caution: Do not drill cement floors containing radiant heat to fasten the PBX. For installations of this type placing the PBX on a rubber mat or some other nonskid or adhesive material may be required to prevent the PBX from sliding.

3.07 Where insulating strips are used (3.04) install dust sealing strips as shown in Fig. 3.

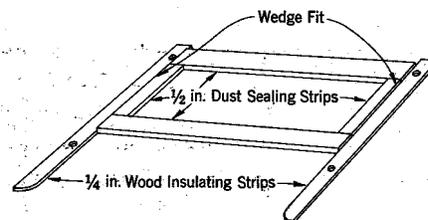


Fig. 3 — Placement of Dust Sealing Strips

Placing Cross-Connecting Terminal

3.08 The binding post chambers or connecting blocks and adapters to be used with the PBX should, if possible, be installed in the cross-connecting terminal provided for the 756A PBX. See Fig. 4. If this is not possible, an additional terminal must be provided and should be mounted as near as possible to the cross-connecting terminal of the existing 756A PBX installation.

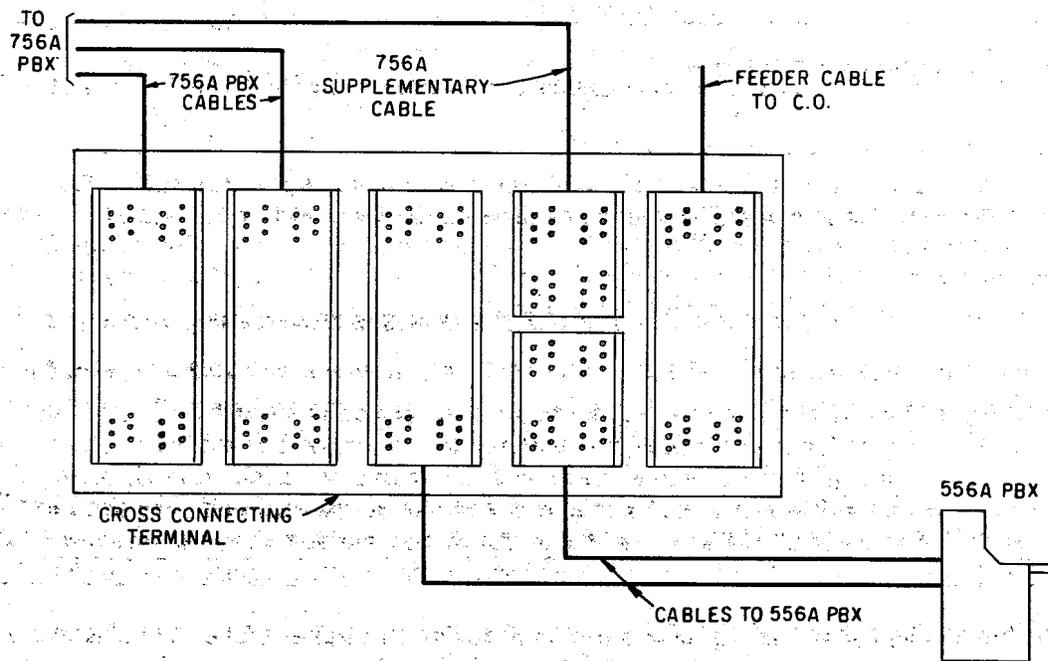


Fig. 4 — Typical Arrangement of Cross-Connecting Terminal Showing Binding Post Chambers for 556A PBX

Cabling Between Cross-Connecting Terminal and PBX

3.09 The 556A PBX is furnished with two cables as follows:

(a) *A station line house and feeder cable* (plug in), 100 feet long, for leads from the cross-connecting terminal to the line cutoff unit mounted in the bottom rear of the switchboard. This is a 100-pair cable. See Fig. 5.

(b) *A trunk and miscellaneous house and feeder cable*, 100 feet long, to extend central office trunk leads, attendant trunk leads, and other miscellaneous leads from a miscellaneous terminal strip in the bottom rear of the switchboard. This is a 50-pair cable. See Fig. 5.

3.10 Run and fasten cables to the cross-connecting terminal box according to the standards in the Bell System Practices applicable and terminate the cables as shown in Fig. 6 and 7.

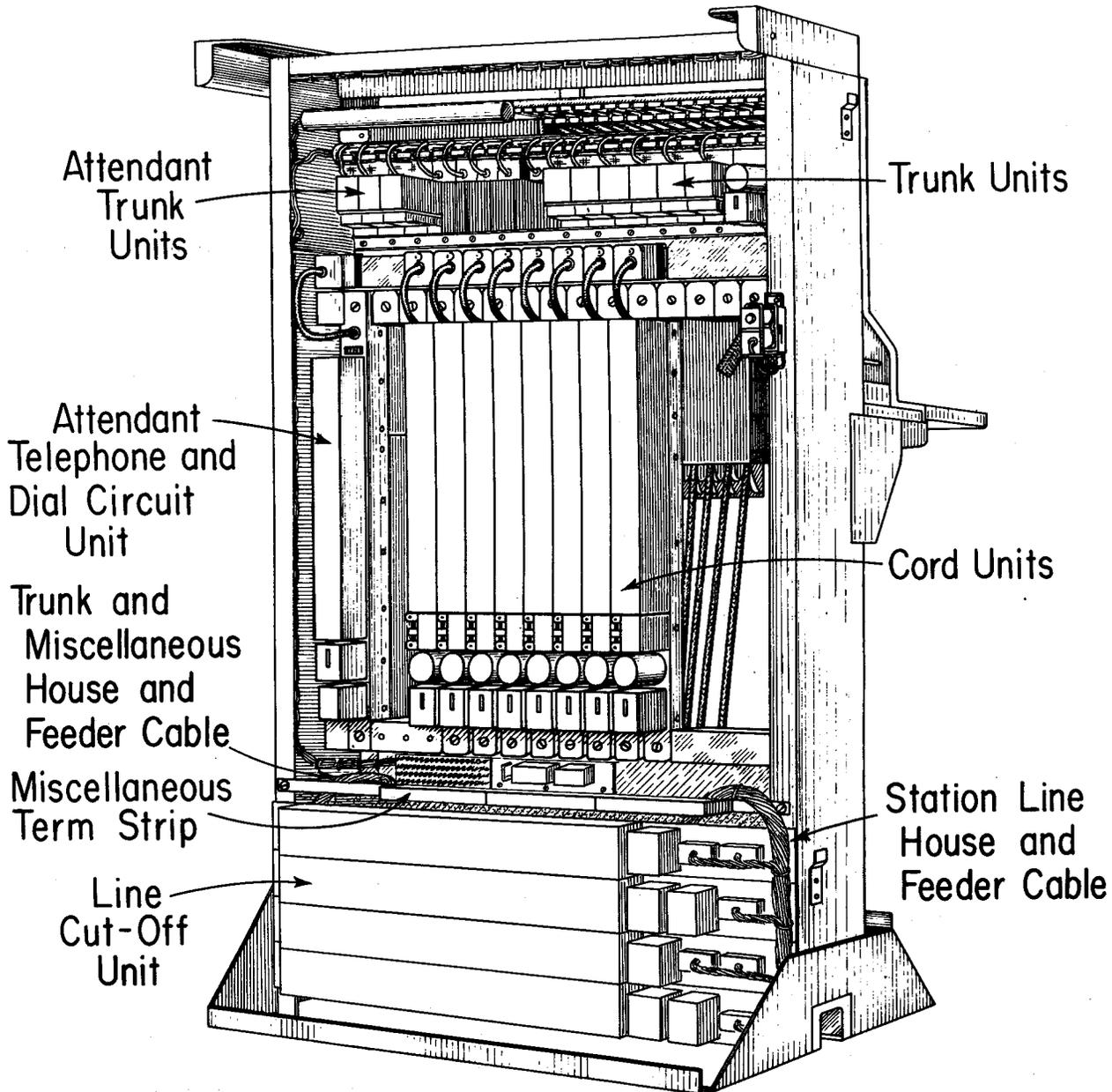


Fig. 5 — Rear View of 556A PBX

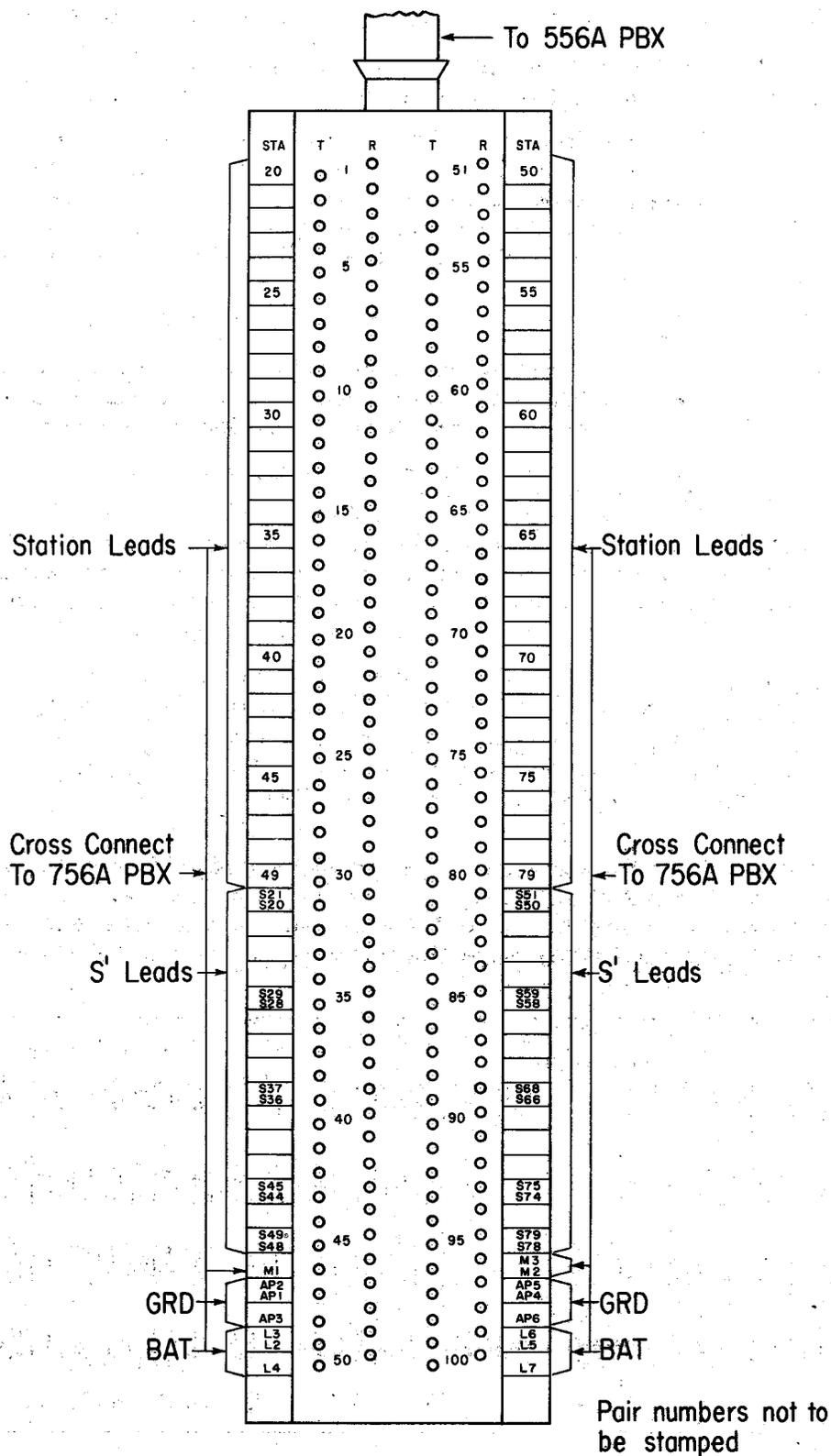


Fig. 6 — Typical Arrangement for Termination of 556A PBX Station Line House and Feeder Cable Using Binding Post Chamber

To 556A PBX
MISC TERM STRIP

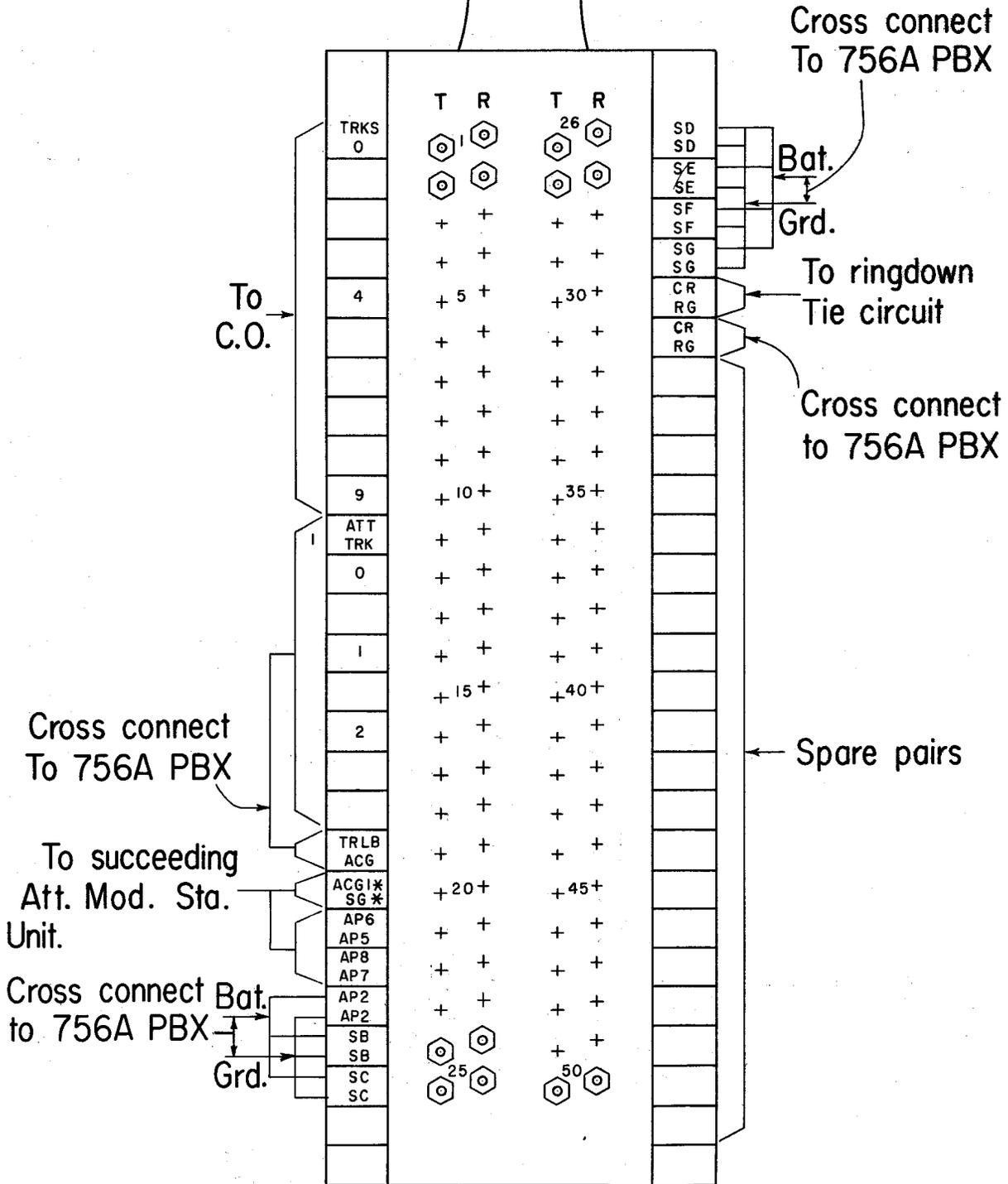


Fig. 7 — Typical Arrangement for Termination of 556A PBX Trunk and Miscellaneous House and Feeder Cable Using Binding Post Chambers

3.11 A supplementary plug-in cable should be provided between the 756A PBX and the cross-connecting terminal for the 556A PBX. (See Fig. 4.) Run and fasten this cable and terminate as shown in Section B556.201.

Lettering and Numbering

3.12 Letter and number the fanning strips as shown in Fig. 6 and 7 using 1/8-inch or 3/16-inch rubber stamps in accordance with Section B502.605. When connecting blocks are used which have the tip binding post above and to the left of the ring binding post, transpose the designations for single leads.

Terminating Cables at 556A PBX

3.13 The cables may enter the PBX through a hole in the floor or through the cable entrance hole provided in the side of the PBX. (See Fig. 5.)

3.14 After the cables have been placed and fastened, cut the fiber cover to fit snugly around the cable. When cables enter the PBX through the floor, the remaining hole should be sealed with Plastic Duct Seal.

3.15 Plug in the house and feeder cable provided on the jacks of the line cutoff unit (3.09). Terminate the trunk and miscellaneous cable as shown in Fig. 8 and Table B.

Power Supply

3.16 The power for the 556A PBX is furnished by the power equipment of the 756A PBX.

Note: When a tie trunk is used with the 556A PBX and ringing supply for the tie trunk is delivered either directly or through a cord, a continuous ringing supply from the central office should be used for the tie trunks.

Miscellaneous Equipment

3.17 The following equipment must be ordered separately and installed locally in accordance with SD-65658-01 as required.

(a) *Attendant Head Telephone Set*

(b) *Attendant Handset:* When provided, a 9A handset hanger must be furnished for the handset. Mounting screws come with the PBX and serve to fill the screw holes in the PBX when the hanger is not used.

(c) *Attendant Dial:* A 10- or 20- pps dial may be used depending upon the type of central office and trunks. When the dial is not required, the 1 and 3, 4, and 5 leads of the dial and telephone set socket should be spliced by the installer.

(d) *Dial Mounting:* Three black flathead screws are furnished by the factory with the writing shelf as apparatus blanks to conceal the three holes used for installing the

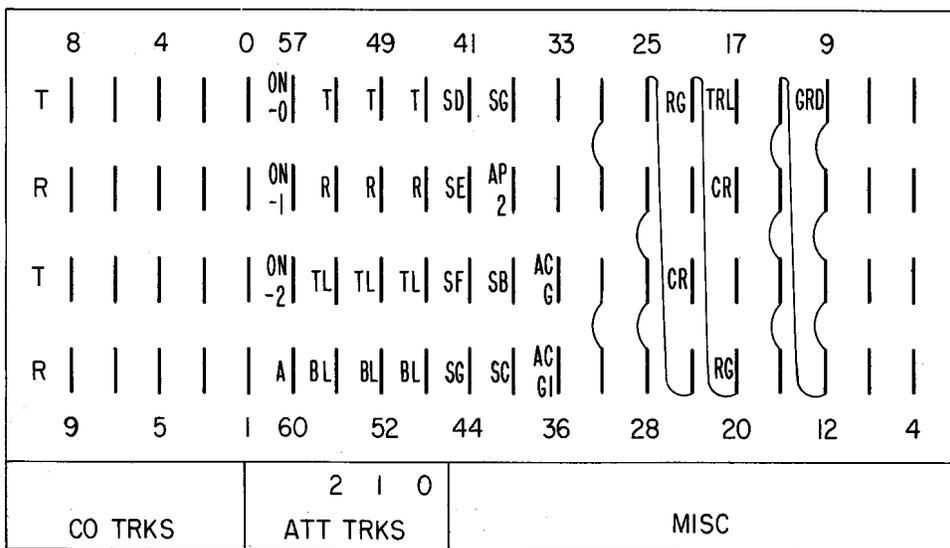


Fig. 8 – Miscellaneous Terminal Strip in Rear of 556A PBX

TABLE B - TERMINATION OF CABLE IN 556A PBX											
"D" IN CABLE		BLUE BINDER			TERM PCHGS		ORANGE BINDER			TERM PCHGS	
LEAD COLOR		PAIR	LEAD DESIG		IN 556A		PAIR	LEAD DESIG		IN 556A	
TIP	RING	NO.	TIP	RING	TIP	RING	NO.	TIP	RING	TIP	RING
W	BL	1	T	R	CO TRK	0	26	SD	SD	12	41
W	O	2	T	R		1	27	SE	SE	13	42
W	G	3	T	R		2	28	SF	SF	14	43
W	BL	4	T	R		3	29	SG	SG	15	44
W	S	5	T	R		4	30	RG	CR	21	23
R	BL	6	T	R		5	31	RG	CR	20	18
R	O	7	T	R		6	32				
R	G	8	T	R		7	33				
R	BL	9	T	R		8	34				
R	S	10	T	R		9	35				
BK	BL	11	T	R	45	46	36				
BK	O	12	TL	BL	47	48	37				
BK	G	13	T	R	49	50	38				
BK	BR	14	TL	BL	51	52	39				
BK	S	15	T	R	53	54	40				
Y	BL	16	TL	BL	55	56	41				
Y	O	17	ON-0	ON-1	57	58	42				
Y	G	18	ON-2	A	59	60	43				
Y	BR	19	ACG	TRLB	35	17	44				
Y	S	20	SG	ACGI	37	36	45				
V	BL	21	AP5	AP6	9	10	46				
V	O	22	AP7	AP8	11	12	47				
V	G	23	AP2	AP2	9	38	48				
V	BR	24	SB	SB	10	39	49				
V	S	25	SC	SC	11	40	50				
							51				

SPARE PAIRS
FOR TIE TRUNKS OR
MANUAL STA LINES

dial mounting. When a dial mounting is installed, the two 1 1/4-inch screws are reused to mount the dial mounting connector block. The 1 1/2-inch nut and washer are discarded.

(e) **Foot Switch**

(f) **Hand Generator:** Wiring for the hand generator is provided in the local cable and must be connected when a hand generator is provided.

(g) **Monitoring Key**

3.18 Instruction Card: The card is mounted by the factory with "Dial Area" instructions showing. Where "Manual Area" instructions are required the card should be turned over.

3.19 Cord Circuits: The PBX uses a single circuit self-contained cord unit. When additional units are to be provided, they must be ordered separately and installed locally. Table C shows typical arrangements when more than eight cord units are provided. Local instructions may provide for other arrangements of cords.

TABLE C — CORD CIRCUIT UNIT POSITIONS															
NUMBER OF CORDS	CORD UNIT POSITION NUMBERS														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
8					R	S	R	S	R	S	R	S			
9				S	R	S	R	S	R	S	R	S			
10				S	R	S	R	S	R	S	R	S	R		
11			R	S	R	S	R	S	R	S	R	S	R		
12			R	S	R	S	R	S	R	S	R	S	R	S	
13		S	R	S	R	S	R	S	R	S	R	S	R	S	
14	R	S	R	S	R	S	R	S	R	S	R	S	R	S	
15	R	S	R	S	R	S	R	S	R	S	R	S	R	S	R

R—Red Cord

S—Slate Cord

3.20 Manual Station Lines: Twenty manual station lines may be provided with the PBX. They must be ordered separately and installed locally in accordance with SD-66082-01.

3.21 The Tie Trunk and Manual Conference Circuit Equipment listed as follows may be provided. They must be ordered separately and installed locally.

(a) **Manual Conference Circuits** per SD-66462-01 and SD-65719-01.

(1) The manual conference circuit jacks are located in the jack field of the switchboard as shown in Fig. 1.

(2) The relay equipment may be mounted in any approved apparatus mounting equipment.

(b) **Tie Trunk Circuits** per SD-65521-01, SD-65781-01, SD-66029-01, SD-66042-01, SD-66065-01, SD-66066-01, and SD-66578-01.

(1) The tie trunk jacks are mounted in the lower right-hand section of the jack field as shown in Fig. 1.

(2) The relay equipment may be mounted in any approved apparatus mounting equipment.

3.22 Apparatus Blanks should be provided in unequipped cord and trunk positions.

4. PLACING IN SERVICE

Cord Circuits

4.01 Holding Bridge Resistance: According to the central office trunk loop resistance, a strap or straps may have to be removed from the compensating resistor (A) in the cord circuits to adjust the resistance of the holding bridge.

Note: In cord circuits containing an RB relay with contact springs, the cord circuit option mentioned in 4.01 is administered by insulating specific contacts of the RB relay in accordance with SD-65658-01. Plastic sleeves (P-32B860), placed over the contacts of the relay, are used to insulate these contacts. These sleeves are furnished with the PBX.

4.02 Station Loops: Where a cable pair to any one station exceeds 1000 feet including bridge taps, capacitor per SD-65658-01 must be ordered separately and installed locally.

5. FINAL TESTS AND INSPECTIONS

5.01 Circuit tests and inspections shall be made as covered by Section B523.602 before turning the PBX over to the customer.