

# ATTENDANT AND STATION EQUIPMENT

## IDENTIFICATION, INSTALLATION, AND CONNECTIONS

### 761B PBX

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#### 1. GENERAL

1.01 This section provides information for the identification, installation, and connections for the 761B attendant call, answer, and switching console, and either rotary dial 500YR (MD) or 500YM, or TOUCH-TONE® 1500Y (MD), 2500Y (MD), or 2500YM station telephone sets.

1.02 This section is reissued to:

- Show 500YR and 1500Y telephone sets MD
- Add 500YM, 2500Y (MD), and 2500YM telephone sets identification.
- Show G3AR handset MD.
- Add G3A4 (MD) and G3A6 handset identification.
- Show J58843-attendant equipment MD and add J58862-attendant equipment to Table A.

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## SECTION 551-722-210

- Add console jack and pin identification and emergency transfer leads (ET and ETG) to Table B.
- Make minor changes.

Since this reissue is a general revision, arrows ordinarily used to indicate changes have been omitted.

**1.03** For a general description of the 761B PBX, refer to Section 981-669-100.

**1.04** For identification, installation, and connections of the 761B PBX switching cabinet, refer to Section 551-720-210.

**1.05** The console provides talking, establishing, and holding connections between the attendant and central office trunks, toll operator trunks, or station lines. Direct station selection (DSS) keys, message waiting control keys, and message registers for each station set are also provided.

**1.06** The station telephone sets provide direct dial access to the attendant, central office, and long distance operator and remote answer trunk. A rotary or TOUCH-TONE® dial and message waiting lamp are provided on each telephone set.

**1.07** An A125A connector cable is required to connect the console to the equipment cabinet. The cable is available in 50-, 75-, or 100-foot lengths.

**1.08** If a flexible connection to the console is required, a D250E mounting cord (8-foot length) is available for use between the console and the A125A cable.

**1.09** The attendant equipment may be ordered as an integral unit with the 761B switching cabinet using the mechanized order blank Form E-8077. Message register and message waiting key plug-in assemblies will be factory installed in accordance with information provided on Form E-8077. For existing systems, message register plug-in assemblies of ten registers per unit must be ordered separately to build out the system as required. Similarly, a plug-in assembly of 20 message waiting keys must be ordered separately to build out the system to the maximum capacity of 40 keys.

**1.10** This issue of the section is based on the following drawings:

SD-1E060-01, Issue 25

SD-66905-01, Issue 10

If this issue is to be used with equipment or apparatus reflecting other issue(s) of the drawing(s), reference should be made to the SDs and CDs to determine the extent of the changes and the manner in which the section may be affected.

## 2. IDENTIFICATION

**2.01** The basic 761B PBX attendant equipment is listed in Table A.

**2.02** A KS-16107, List 2 speaker, mounted inside the console, is used for audible signaling. An interrupted tone signal is supplied by an ED-1E001-30 tone generator, mounted inside the console. A volume controlling potentiometer is provided which can be used to reduce the signal tone to near cutoff.

**2.03** The attendant, call, answer, and switching console (Fig. 1) is approximately 22 inches wide, 17 inches deep, and 9-1/2 inches high. The console includes either a rotary or TOUCH-TONE dial, a handset, 20 message waiting keys (an additional 20 may be added as required), 40 DSS keys, and 10 attendant control buttons (alarm, remote answer, emergency transfer, release, hold 1, hold 2, local, long distance, room, and spare). The volume control, handset dial, and switch hook assembly are mounted at the lower left of the console face.

**2.04** Transmission from the G3AR (MD), G3A4 (MD), or G3A6 handset in the console to the PBX system is by means of a 425E network.

### A. Station Equipment

**2.05** A maximum of 40 500YR (MD), 500YM, 1500Y (MD), 2500Y (MD) or 2500YM telephone sets are used as PBX station equipment with the 761B PBX. Each set is equipped with a message waiting lamp for that feature. (See Fig. 2 and 3). The 500YM/2500YM telephone sets are modular sets consisting of 500/2500-type base, G15A handset, H4DU handset cord, and D48U mounting cord which

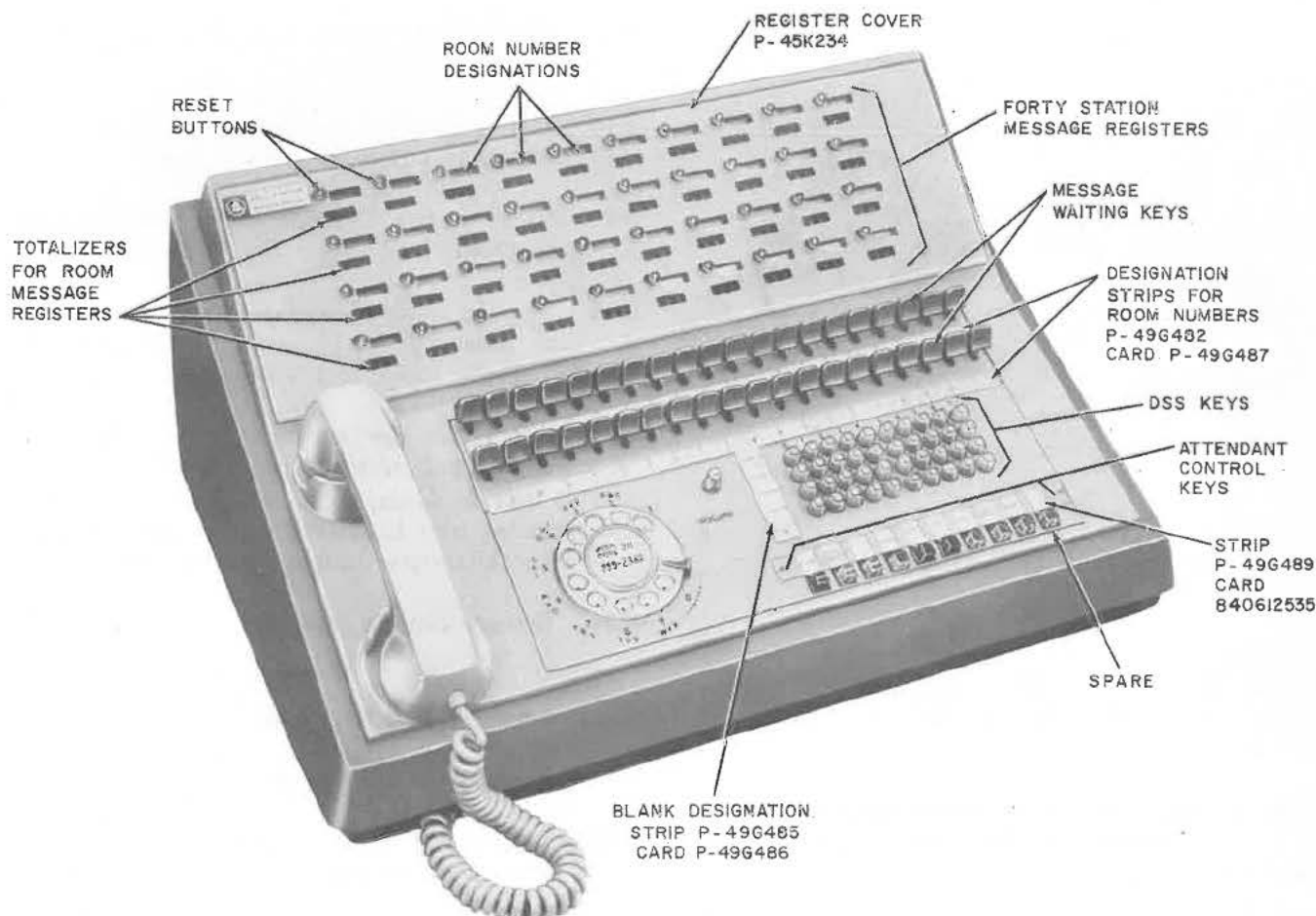


Fig. 1—Attendant Call, Answer, and Switching Console With Rotary Dial



Fig. 2—500YR (MD) Telephone Set

are individually replaceable and separately ordered units.

### 3. INSTALLATION

#### A. Attendant Equipment

**3.01** Place the console in the required location and place connector cable A125A in position between the console and the quick-connect blocks in the crown of the 761B PBX switching cabinet.

**Note:** If a flexible connection to the console is required, place a D250E mounting cord between the console and the A125A cable. It may be necessary to drill an access hole in the mounting surface for the A125A cable.

**3.02** Remove the console casing (Fig. 4) by grasping the bottom of each side, flexing



Fig. 3—1500Y (MD) Telephone Set

outward (Fig. 4A and B), and lifting upward as the casing lips clear the console frame (Fig. 4C). Casing and console lips are shown in Figures 4D and 4E.

**3.03** Remove the spacer across the rear of the console base by removing the four spacer mounting screws.

**3.04** Loosen screw at each end of P-48J427 connector bracket and swing bracket to the top. Remove dust covers from console connector assembly and A125A connector cable. Connect the A125A cable to the associated connectors on the console, or if D250E mounting cord is used, to the associated connectors on the mounting cord and then connect the D250E mounting cord to the associated plugs on the console. Swing P-48J427 bracket down and tighten screws at each end of bracket to secure connectors. Figure 5 shows the console with the plugs properly positioned and the bracket in place.

**3.05** Replace the spacer across the rear of the console base.

**3.06** Replace the console casing.

#### B. Message Register Installation

**3.07** Remove the console casing.

**3.08** Remove the console faceplate by removing two screws on top rear of faceplate.

**3.09** Remove the message register P-48J426 blank plate(s) as required.

**3.10** Install message registers and secure using screws removed from blank plates.

**3.11** Remove the P-45K226 plug buttons as required.

**3.12** Plug in applicable message register plugs as follows: MR (0-9) to J6, MR (10-19) to J7, MR (20-29) to J8, and MR (30-39) to J9.

**Note:** Message registers should be built up from the bottom to the top row of the console. It may be necessary to readjust the message register unit to ensure correct dial readings after the console faceplate has been reinstalled.

**3.13** Replace console faceplate and casing.

#### C. Message Waiting Key Strip

**3.14** Remove the console casing.

**3.15** Remove the console faceplate by removing two screws on top rear of faceplate.

**3.16** Remove all message waiting key knobs by pulling outward.

**3.17** Remove the P-49G493, 20-key message waiting cover by removing four screws.

**3.18** Remove the designation strip from the P-49G493 (old) cover and insert in lower position of P-49G494 (new) cover for 40 message waiting keys.

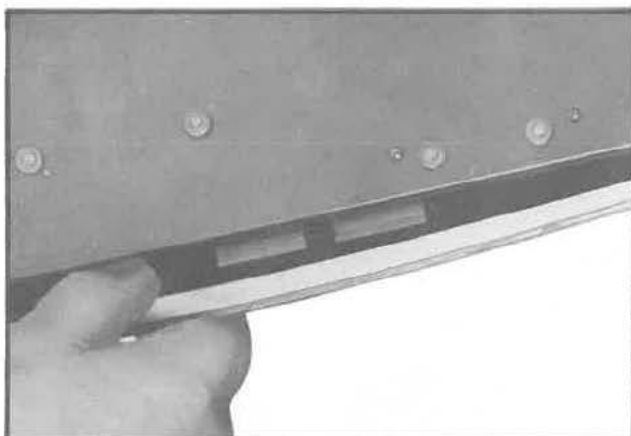
**3.19** Remove the upper designation on P-49G494 cover; designate as required and replace.

**3.20** Install 20-key message waiting unit and secure using four P124483 RHM screws.

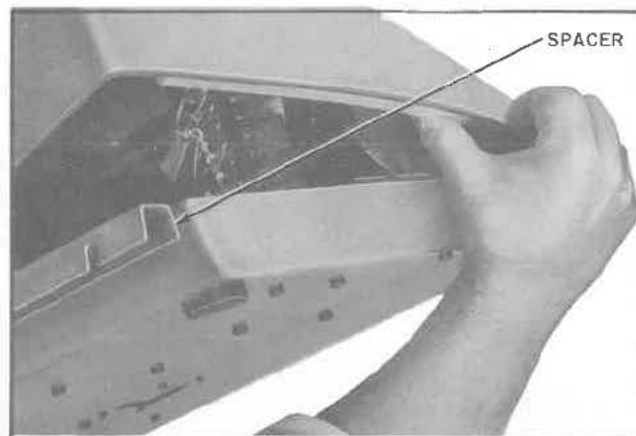
**3.21** Plug 20-key message waiting unit plug into J11.

**3.22** Install P-49G494 cover using four screws removed from P-49G493 cover.

**3.23** Install message waiting key knobs by pressing knobs on message waiting key shafts.



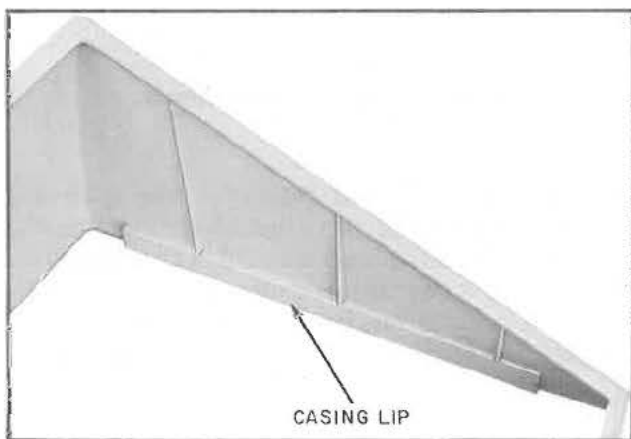
A



B

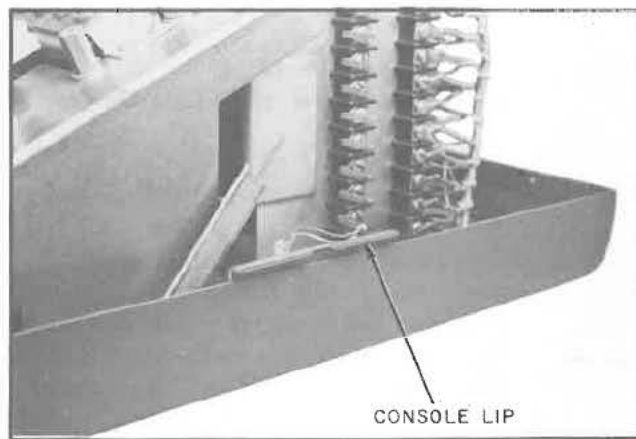


C



CASING LIP

D



CONSOLE LIP

E

Fig. 4—Removal of Console Casing

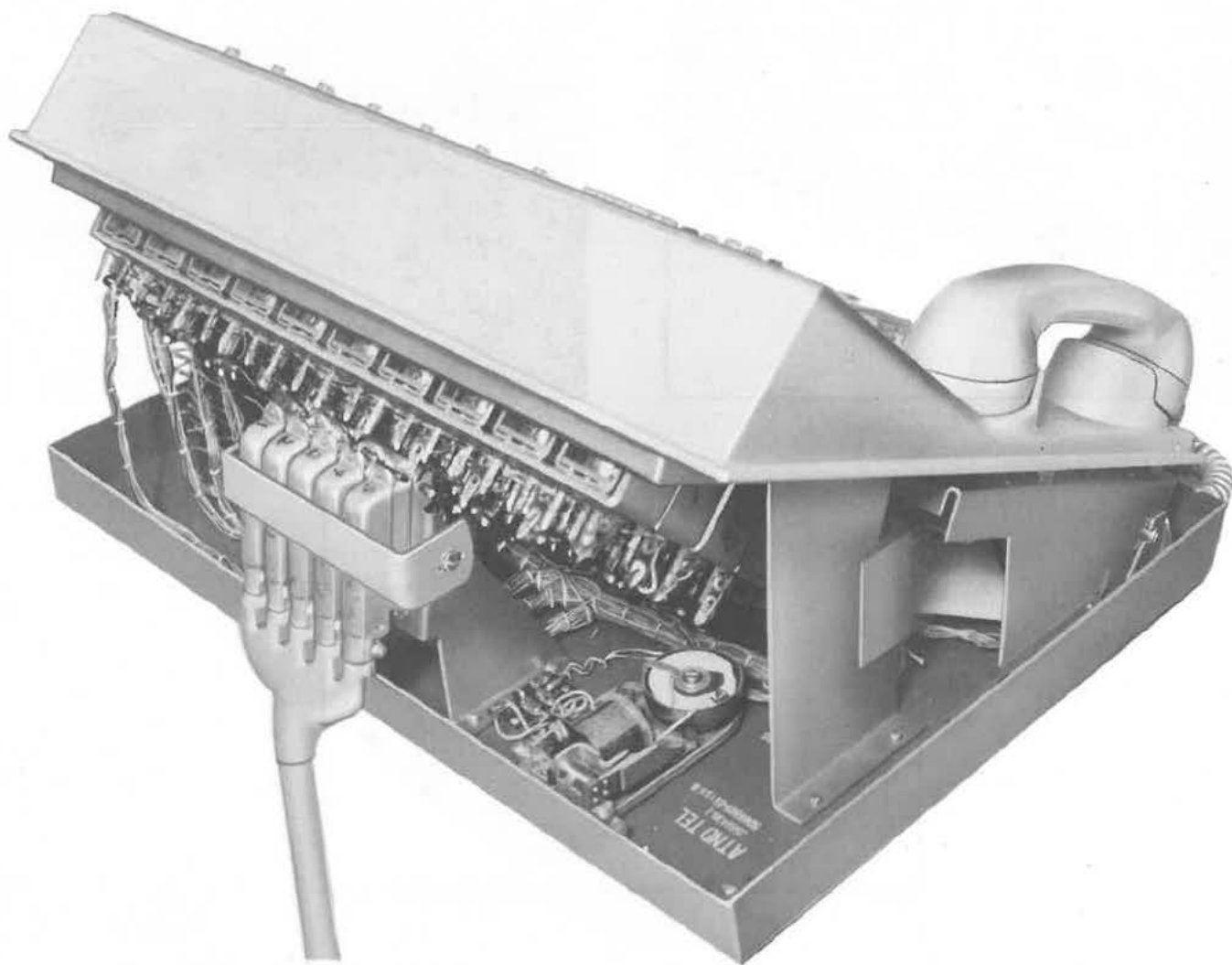


Fig. 5—Rear View of Console Showing Cable Connector Properly Positioned—Less Spacer

**3.24** Replace console faceplate and console casing.



*To ensure proper operation of the DSS keys after the faceplate has been reinstalled, depress each button of the DSS unit a minimum of three times to insure that it operates freely. When depressing the buttons, apply pressure in a direction which approximates actual operating conditions. Depress the button to the limit of its travel and hold for approximately 1 second.*

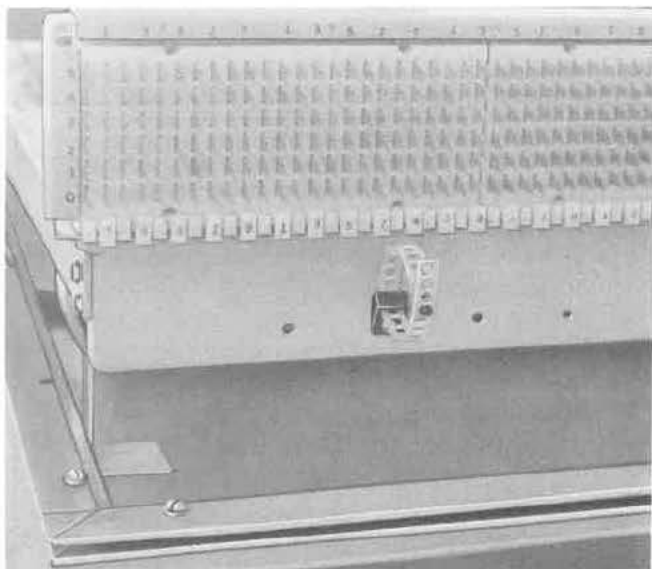
**3.25** If binding occurs due to misalignment of the DSS buttons and the faceplate, remove

the bezel assembly and reposition the DSS key assembly block for proper alignment. Bending the mounting tabs on the bezel may aid in the alignment. (Use care.) After adjustments have been made, check the console for free operation as described previously. If buttons squeak when depressed, replace the DSS unit.

**3.26** Remove the plastic designation strips; designate as required and replace.

**D. Station Equipment**

**3.27** Each station set requires a tip and ring connection to the switching cabinet. These connections are made by extending locally furnished house and feeder cable from the station terminal



**Fig. 6—Method of Mounting Cable Clamp**

box to the PBX. Knock-outs at the right or left rear of the crown allow the cable to enter the PBX crown. The cable must be extended to the

vertical cross-connection field at the front of the crown. Allow sufficient cable slack to permit the field to be raised or lowered without binding.

**3.28** Secure the cable to the terminal field framework with plastic clamps furnished in the loose parts bag. Four holes are provided on the front of the terminal frame assembly for bolting the clamps to the frame (Fig. 6).

#### **4. CONNECTIONS**

##### **A. Attendant Console**

**4.01** Form and fan the A125A cable from the console at the quick-connect blocks as shown in Table B. Connections are the same for both rotary dial and TOUCH-TONE consoles. See Section 461-604-100 for method of making connections.

##### **B. Station Equipment**

**4.02** Connect station sets as required to associated terminals as shown in Table C. A maximum of 40 stations is shown.



TABLE A

## 761B PBX ATTENDANT EQUIPMENT

ORDER NO.	NOMENCLATURE	DESCRIPTION
J58843B, List 2 (MD) or J58862AW List 1	Attendant call, answer, and switching console	One console assembly equipped with rotary dial, 20 message waiting keys wired for, but not equipped with 20 additional message waiting keys and 40 message registers
J58843B, List 3 (MD) or J58862AW List 2	Attendant call, answer, and switching console	One console assembly equipped with TOUCH- TONE dial, 20 message waiting keys wired for, but not equipped with 20 additional message waiting keys and 40 message registers
J58843BC List 1 (MD) or J58862BA List 1	20-key message waiting unit	Wiring and equipment for one 20-key message waiting plug-in unit
P49G494	Cover	Required when second J58843BC, List 1 (MD) or J58862BA, List 1 20-key message waiting unit installed
P49G482	Strip	
P49G487	Designation card	
P124483	RHM screw	
J58843BB, List 1 (MD) or J58862AY List 1	Message register unit	Wiring and equipment for one 10-message register plug-in unit
ED-67000-50, Group 1 — moss green  Group 2 — white  Group 3 — light beige  Group 4 — light gray	Console casing	Required in addition to J58843B, List 2 or 3 (MD) or J58862AW List 1 or 2 to provide required color console
100017292	50 ft. A125A	Required to connect console to switching cabinet
100017300	75 ft. Connector	
100017318	100 ft. Cable	



TABLE B

125-PAIR A125A CABLE FROM ATTENDANT  
CONSOLE TO QUICK-CONNECT BLOCKS

FROM ATTENDANT CONSOLE				TO QUICK-CONNECT BLOCK:	
J1	BLUE BINDER	PAIR	COLOR	LEAD	TERM.
26		1T	W-BL	SBL01	10
1		1R	BL-W	SBL00	00
27		2T	W-O	SBL03	11
2		2R	O-W	SBL02	01
28		3T	W-G	SBL05	12
3		3R	G-W	SBL04	02
29		4T	W-BR	SBL07	13
4		4R	BR-W	SBL06	03
30		5T	W-S	SBL09	14
5		5R	S-W	SBL08	04
31		6T	R-BL	SBL11	15
6		6R	BL-R	SBL10	05
32		7T	R-O	SBL13	16
7		7R	O-R	SBL12	06
33		8T	R-G	SBL15	17
8		8R	G-R	SBL14	07
34		9T	R-BR	SBL17	18
9		9R	BR-R	SBL16	08
35		10T	R-S	SBL19	19
10		10R	S-R	SBL18	09
36		11T	BK-BL	T1	57
11		11R	BL-BK	T0	47
37		12T	BK-O	T3	58
12		12R	O-BK	T2	48
38		13T	BK-G	U1	52
13		13R	G-BK	U0	42
39		14T	BK-BR	U3	53
14		14R	BR-BK	U2	43
40		15T	BK-S	U5	54
15		15R	S-BK	U4	44
41		16T	Y-BL	U7	55
16		16R	BL-Y	U6	45
42		17T	Y-O	U9	56
17		17R	O-Y	U8	46
43		18T	Y-G	SL0	13
18		18R	G-Y	TG	11
44		19T	Y-BR	DSS	12
19		19R	BR-Y		
45		20T	Y-S		
20		20R	S-Y		
46		21T	V-BL		
21		21R	BL-V		
47		22T	V-O		
22		22R	O-V		
48		23T	V-G		
23		23R	G-V		
49		24T	V-BR		
24		24R	BR-V		
50		25T	V-S		
25		25R	S-V		

A

C

TABLE B (Contd)

125-PAIR A125A CABLE FROM ATTENDANT  
CONSOLE TO QUICK-CONNECT BLOCKS

FROM ATTENDANT CONSOLE				TO QUICK-CONNECT BLOCK:	
J2		PAIR	COLOR	LEAD	TERM.
26 1	ORANGE BINDER	26T	W-BL	DSG	10
27 2		26R	BL-W		
28		27T	W-O		
		27R	O-W		
		28T	W-G		
3 29		28R	G-W		
4		29T	W-BR		
30		29R	BR-W		
5		30T	W-S		
		30R	S-W		
31 6		31T	R-BL		
32		31R	BL-R		
7		32T	R-O		
33		32R	O-R		
		33T	R-G		
8 34		33R	G-R		
9		34T	R-BR		
35		34R	BR-R		
10		35T	R-S		
		35R	S-R		
36 11		36T	BK-BL	SBL21	10
37		36R	BL-BK	SBL20	00
12		37T	BK-O	SBL23	11
38		37R	O-BK	SBL22	01
		38T	BK-G	SBL25	12
13 39		38R	G-BK	SBL24	02
14		39T	BK-BR	SBL27	13
40		39R	BR-BK	SBL26	03
15		40T	BK-S	SBL29	14
		40R	S-BK	SBL28	04
41 16		41T	Y-BL	SBL31	15
42		41R	BL-Y	SBL30	05
17		42T	Y-O	SBL33	16
43		42R	O-Y	SBL32	06
		43T	Y-G	SBL35	17
18 44		43R	G-Y	SBL34	07
19		44T	Y-BR	SBL37	18
45		44R	BR-Y	SBL36	08
20		45T	Y-S	SBL39	19
		45R	S-Y	SBL38	09
46 21		46T	V-BL		
47		46R	BL-V		
22		47T	V-O		
48		47R	O-V		
		48T	V-G		
23 49		48R	G-V		
24		49T	V-BR		
50		49R	BR-V		
25		50T	V-S		
		50R	S-V		

TABLE B (Contd)

125-PAIR A125A CABLE FROM ATTENDANT  
CONSOLE TO QUICK-CONNECT BLOCKS

FROM ATTENDANT CONSOLE				TO QUICK-CONNECT BLOCK:		
J3		PAIR	COLOR	LEAD	TERM.	
26	GREEN BINDER	51T	W-BL	MR01	30	A
1		51R	BL-W	MR00	20	
27		52T	W-O	MR03	31	
2		52R	O-W	MR02	21	
28		53T	W-G	MR05	32	
3		53R	G-W	MR04	22	
29		54T	W-BR	MR07	33	
4		54R	BR-W	MR06	23	
30		55T	W-S	MR09	34	
5		55R	S-W	MR08	24	
31		56T	R-BL	MR11	35	
6		56R	BL-R	MR10	25	
32		57T	R-O	MR13	36	
7		57R	O-R	MR12	26	
33		58T	R-G	MR15	37	
8		58R	G-R	MR14	27	
34		59T	R-BR	MR17	38	
9		59R	BR-R	MR16	28	
35		60T	R-S	MR19	39	
10		60R	S-R	MR18	29	
36		61T	BK-BL	MW1	50	
11		61R	BL-BK	MW0	40	
37		62T	BK-O	MW3	51	
12		62R	O-BK	MW2	41	
38		63T	BK-G	MW5	52	
13		63R	G-BK	MW4	42	
39		64T	BK-BR	MW7	53	
14		64R	BR-BK	MW6	43	
40		65T	BK-S	MW9	54	
15		65R	S-BK	MW8	44	
41		66T	Y-BL	MW11	55	
16		66R	BL-Y	MW10	45	
42		67T	Y-O	MW13	56	
17		67R	O-Y	MW12	46	
43		68T	Y-G	MW15	57	
18		68R	G-Y	MW14	47	
44		69T	Y-BR	MW17	58	
19		69R	BR-Y	MW16	48	
45		70T	Y-S	MW19	59	
20		70R	S-Y	MW18	49	
46		71T	V-BL	SWG	51	D
21		71R	BL-V			
47		72T	V-O			
22		72R	O-V			
23		73T	V-G	TST	42	C
49		73R	G-V			
24		74T	V-BR			
50		74R	BR-V			
25		75T	V-S			
		75R	S-V	R	50	D

TABLE B (Contd)

125-PAIR A125A CABLE FROM ATTENDANT  
CONSOLE TO QUICK-CONNECT BLOCKS

FROM ATTENDANT CONSOLE				TO QUICK-CONNECT BLOCK:	
J4		PAIR	COLOR	LEAD	TERM.
26	BROWN BINDER	76T	W-BL	MW21	50
1		76R	BL-W	MW20	40
27		77T	W-O	MW23	51
2		77R	O-W	MW22	41
28		78T	W-G	MW25	52
3		78R	G-W	MW24	42
29		79T	W-BR	MW27	53
4		79R	BR-W	MW26	43
30		80T	W-S	MW29	54
5		80R	S-W	MW28	44
31		81T	R-BL	MW31	55
6		81R	BL-R	MW30	45
32		82T	R-O	MW33	56
7		82R	O-R	MW32	46
33		83T	R-G	MW35	57
8		83R	G-R	MW34	47
34		84T	R-BR	MW37	58
9		84R	BR-R	MW36	48
35		85T	R-S	MW39	59
10		85R	S-R	MW38	49
36		86T	BK-BL	MR21	30
11		86R	BL-BK	MR20	20
37		87T	BK-O	MR23	31
12		87R	O-BK	MR22	21
38		88T	BK-G	MR25	32
13		88R	G-BK	MR24	22
39		89T	BK-BR	MR27	33
14		89R	BR-BK	MR26	23
40		90T	BK-S	MR29	34
15		90R	S-BK	MR28	24
41		91T	Y-BL	MR31	35
16		91R	BL-Y	MR30	25
42		92T	Y-O	MR33	36
17		92R	O-Y	MR32	26
43		93T	Y-G	MR35	37
18		93R	G-Y	MR34	27
44		94T	Y-BR	MR37	38
19		94R	BR-Y	MR36	28
45		95T	Y-S	MR39	39
20		95R	S-Y	MR38	29
46	C	96T	V-BL	MRG0	20
21		96R	BL-V	LP0	00
47		97T	V-O	MRG1	30
22		97R	O-V	LP1	01
48	D	98T	V-G	MWB0	40
23		98R	G-V	LP2	02
49		99T	V-BR	MWB1	50
24		99R	BR-V	LP3	03
50		100T	V-S	TBS	52
25		100R	S-V	SWGRD	53

TABLE B (Contd)

125-PAIR A125A CABLE FROM ATTENDANT  
CONSOLE TO QUICK-CONNECT BLOCKS

FROM ATTENDANT CONSOLE				TO QUICK-CONNECT BLOCK:			
J5	SLATE BINDER	PAIR	COLOR	LEAD	TERM.		
26 1 27 2 28		101T 101R 102T 102R 103T	W-BL BL-W W-O O-W W-G	AT SWG1	53 44	E	
3 29 4 30 5		103R 104T 104R 105T 105R	G-W W-BR BR-W W-S S-W	RM  COC LDC	43  42 52		
31 6 32 7 33		106T 106R 107T 107R 108T	R-BL BL-R R-O O-R R-G	PFS CTL HC1	51 54 59		D
8 34 9 35 10		108R 109T 109R 110T 110R	G-R R-BR BR-R R-S S-R	H1 HA1 HB1 HC2 H2	58 57 48 49 47		
36 11 37 12 38		111T 111R 112T 112R 113T	BK-BL BL-BK BK-O O-BK BK-G	HA2 HB2	50 40		
13 39 14 40 15		113R 114T 114R 115T 115R	G-BK BK-BR BR-BK BK-S S-BK	RLS ET ETG	56 31 21	D C	
41 16 42 17 43		116T 116R 117T 117R 118T	Y-BL BL-Y Y-O O-Y Y-G			D	
18 44 19 45 20		118R 119T 119R 120T 120R	G-Y Y-BR BR-Y Y-S S-Y	ALP ACO	55 46		
46 21 47 22 48		121T 121R 122T 122R 123T	V-BL BL-V V-O O-V V-G	TRA HLP1	45 54		
23 49 24 50 25		123R 124T 124R 125T 125R	G-V V-BR BR-V V-S S-V	TTL HLP2 PTL LP4 LPG1	45 44 55 46 56		E D E

TABLE C

## CONNECTIONS FROM STATION SETS TO PBX

FROM		TO	FROM		TO
STATION	DESIG	CONN BLK C TERM.	STATION	DESIG	CONN BLK C TERM.
1st	T00	05	21st	T20	25
	R00	15		R20	35
2nd	T01	06	22nd	T21	26
	R01	16		R21	36
3rd	T02	07	23rd	T22	27
	R02	17		R22	37
4th	T03	08	24th	T23	28
	R03	18		R23	38
5th	T04	09	25th	T24	29
	R04	19		R24	39
STATION	DESIG	CONN BLK D TERM.	STATION	DESIG	CONN BLK D TERM.
6th	T05	00	26th	T25	20
	R05	10		R25	30
7th	T06	01	27th	T26	21
	R06	11		R26	31
8th	T07	02	28th	T27	22
	R07	12		R27	32
9th	T08	03	29th	T28	23
	R08	13		R28	33
10th	T09	04	30th	T29	24
	R09	14		R29	34
11th	T10	05	31st	T30	25
	R10	15		R30	35
12th	T11	06	32nd	T31	26
	R11	16		R31	36
13th	T12	07	33nd	T32	27
	R12	17		R32	37
14th	T13	08	34th	T33	28
	R13	18		R33	38
15th	T14	09	35th	T34	29
	R14	19		R34	39
STATION	DESIG	CONN BLK E TERM.	STATION	DESIG	CONN BLK E TERM.
16th	T15	00	36th	T35	20
	R15	10		R35	30
17th	T16	01	37th	T36	21
	R16	11		R36	31
18th	T17	02	38th	T37	22
	R17	12		R37	32
19th	T18	03	39th	T38	23
	R18	13		R38	33
20th	T19	04	40th	T39	24
	R19	14		R39	34