

ATTENDANT AND STATION EQUIPMENT

IDENTIFICATION, INSTALLATION, AND CONNECTIONS

761B PBX

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4. CONNECTIONS	7	1. GENERAL	
A. Attendant Console	7	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.	
B. Station Equipment	7	1.02 This section is reissued to:	

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- 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

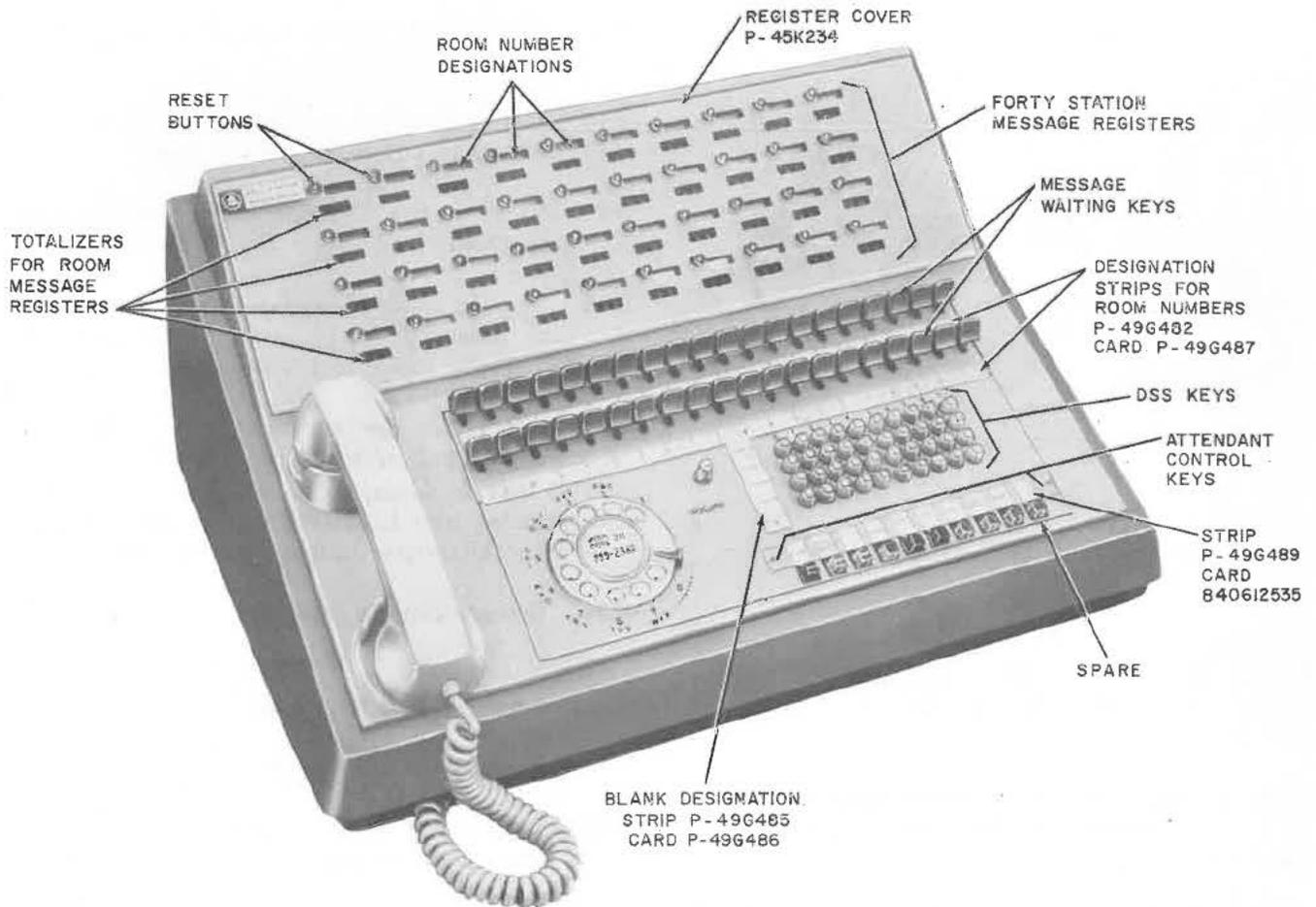


Fig. 1—Attendant Call, Answer, and Switching Console With Rotary Dial



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.

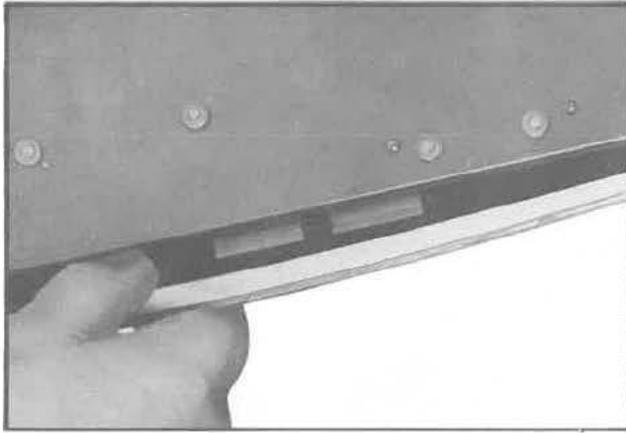
3.19 Remove the upper designation on P-49G494 cover; designate as required and replace.

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

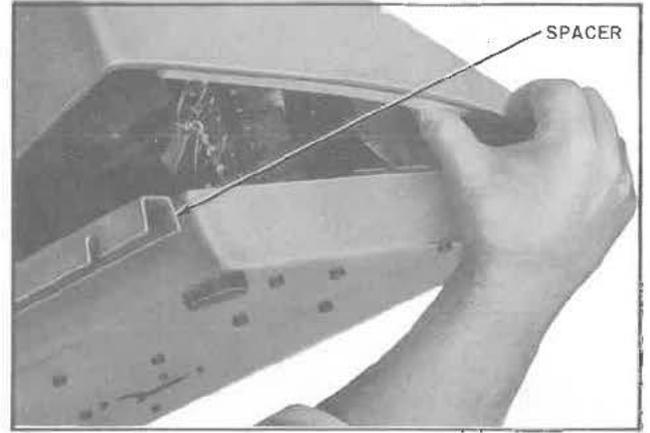
3.21 Plug 20-key message waiting unit plug into J11.

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.



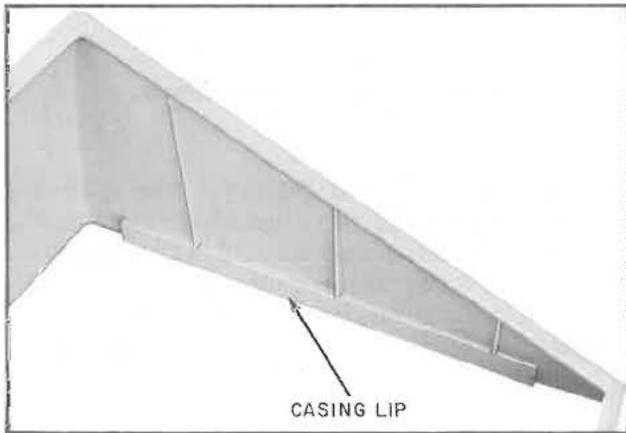
A



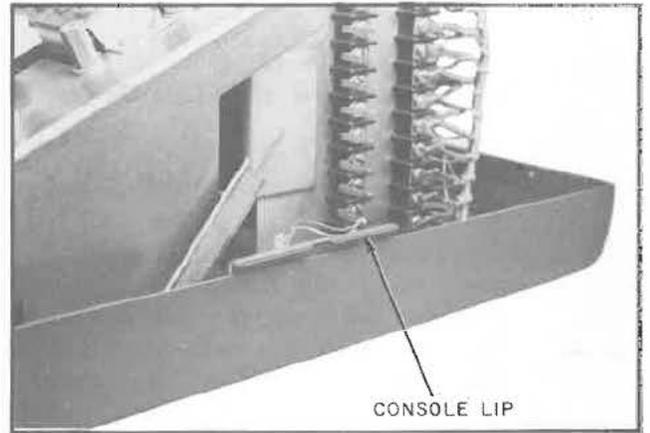
B



C



D



E

Fig. 4—Removal of Console Casing

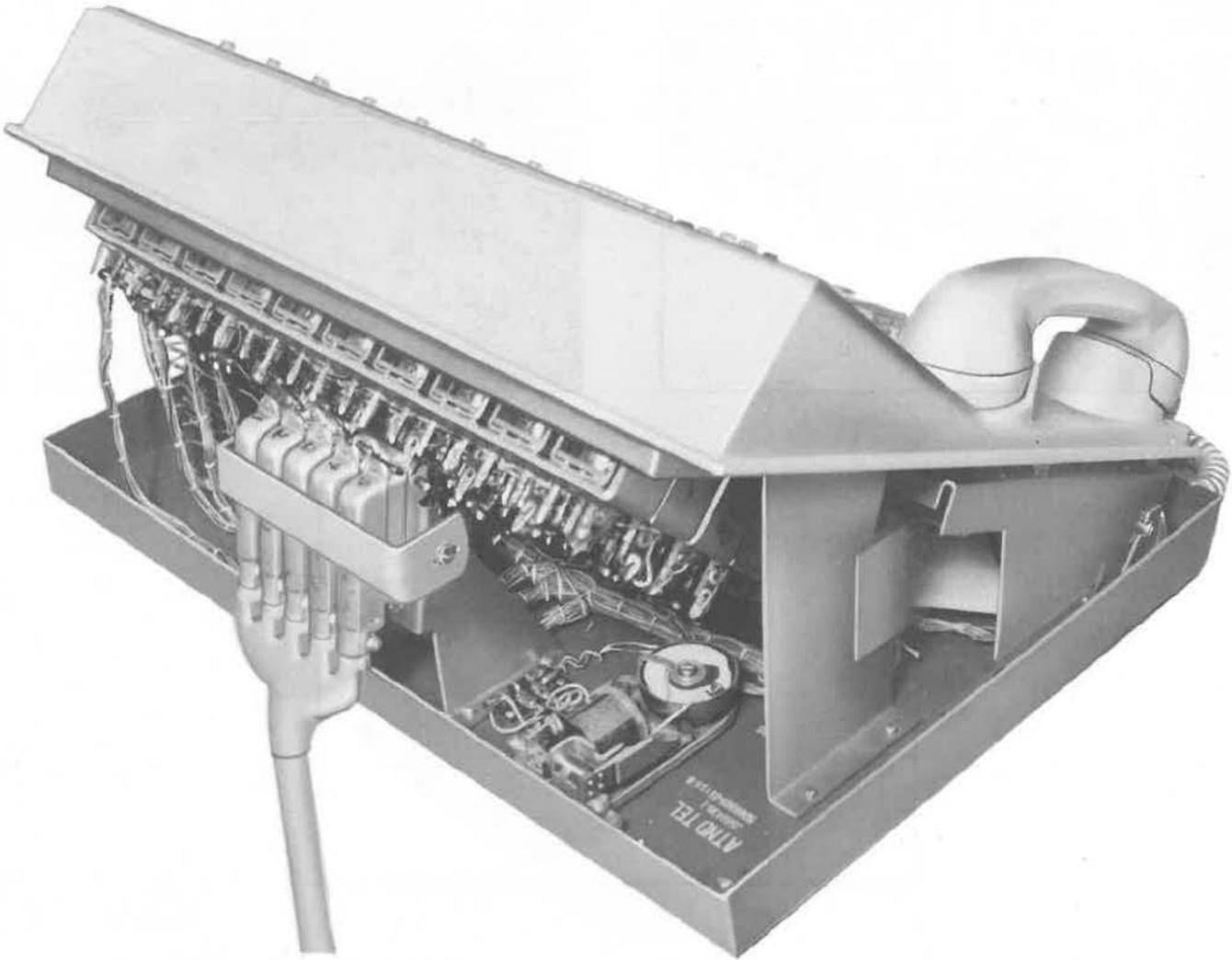


Fig. 5—Rear View of Console Showing Cable Connector Properly Positioned—Less Spacer

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

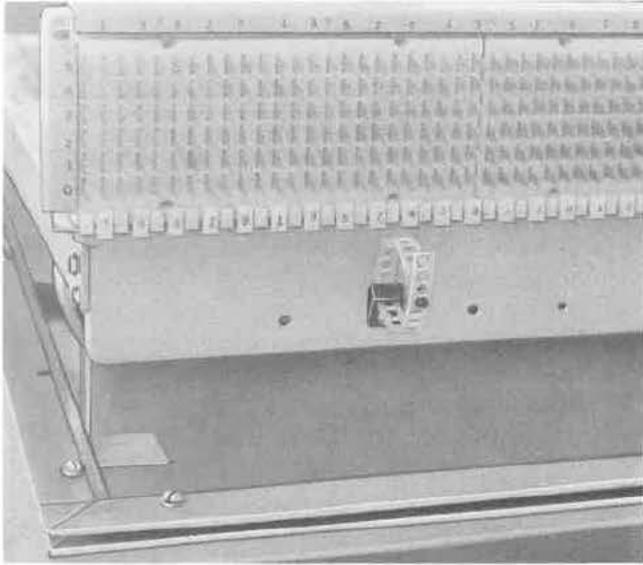


Fig. 6—Method of Mounting Cable Clamp

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	PAIR	COLOR	LEAD	TERM.	
26	1T	W-BL	SBL01	10	A
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	C
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			

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	26T 26R	W-BL BL-W	DSG	10	C
27 2	27T 27R	W-O O-W			
28	28T	W-G			
3	28R	G-W			
29 4	29T 29R	W-BR BR-W			
30 5	30T 30R	W-S S-W			
31 6	31T 31R	R-BL BL-R			
32 7	32T 32R	R-O O-R			
33	33T	R-G			
8 34	33R 34T	G-R R-BR			
9 35	34R 35T	BR-R R-S			
10	35R	S-R			
36 11	36T 36R	BK-BL BL-BK	SBL21 SBL20	10 00	B
37 12	37T 37R	BK-O O-BK	SBL23 SBL22	11 01	
38	38T	BK-G	SBL25	12	
13 39	38R 39T	G-BK BK-BR	SBL24 SBL27	02 13	
14 40	39R 40T	BR-BK BK-S	SBL26 SBL29	03 14	
15	40R	S-BK	SBL28	04	
41 16	41T 41R	Y-BL BL-Y	SBL31 SBL30	15 05	
42 17	42T 42R	Y-O O-Y	SBL33 SBL32	16 06	
43	43T	Y-G	SBL35	17	
18 44	43R 44T	G-Y Y-BR	SBL34 SBL37	07 18	
19 45	44R 45T	BR-Y Y-S	SBL36 SBL39	08 19	
20	45R	S-Y	SBL38	09	
46 21	46T 46R	V-BL BL-V			
47 22	47T 47R	V-O O-V			
48	48T	V-G			
23 49	48R 49T	G-V V-BR			
24 50	49R 50T	BR-V V-S			
25	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	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			D
21	71R	BL-V			
47	72T	V-O			
22	72R	O-V			
48	73T	V-G	SWG	51	
23	73R	G-V	TST	42	C
49	74T	V-BR	RG1	59	D
24	74R	BR-V	CR1	41	
50	75T	V-S	T	40	
25	75R	S-V	R	50	

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	76T	W-BL	MW21	50	B
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	96T	V-BL	MRG0	20	C
21	96R	BL-V	LP0	00	
47	97T	V-O	MRG1	30	
22	97R	O-V	LP1	01	
48	98T	V-G	MWB0	40	
23	98R	G-V	LP2	02	D
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	PAIR	COLOR	LEAD	TERM.		
26	101T	W-BL			E	
1	101R	BL-W				
27	102T	W-O	AT	53		
2	102R	O-W	SWG1	44		
28	103T	W-G				
3	103R	G-W			E	
29	104T	W-BR	RM	43		
4	104R	BR-W				
30	105T	W-S	COC	42		
5	105R	S-W	LDC	52		
31	106T	R-BL			D	
6	106R	BL-R				
32	107T	R-O	PFS	51		
7	107R	O-R	CTL	54		
33	108T	R-G	HC1	59		
8	108R	G-R	H1	58	D	
34	109T	R-BR	HA1	57		
9	109R	BR-R	HB1	48		
35	110T	R-S	HC2	49		
10	110R	S-R	H2	47		
36	111T	BK-BL	HA2	50	E	
11	111R	BL-BK	HB2	40		
37	112T	BK-O				
12	112R	O-BK				
38	113T	BK-G				
13	113R	G-BK	RLS	56	D	
39	114T	BK-BR	ET	31		
14	114R	BR-BK	ETG	21		
40	115T	BK-S				
15	115R	S-BK				
41	116T	Y-BL			D	
16	116R	BL-Y				
42	117T	Y-O				
17	117R	O-Y				
43	118T	Y-G				
18	118R	G-Y			E	
44	119T	Y-BR	ALP	55		
19	119R	BR-Y	ACO	46		
45	120T	Y-S				
20	120R	S-Y				
46	121T	V-BL			E	
21	121R	BL-V				
47	122T	V-O				
22	122R	O-V	TRA	45		
48	123T	V-G	HLP1	54		
23	123R	G-V	TTL	45	E	
49	124T	V-BR	HLP2	44		
24	124R	BR-V	PTL	55		
50	125T	V-S	LP4	46		
25	125R	S-V	LPG1	56		

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