

1A1 KEY TELEPHONE SYSTEM
TYPICAL 1A1 INSTALLATIONS
CONDENSED CONNECTION CHARTS

1.00 GENERAL

1.01 This section covers illustrations of typical 1A1 key telephone system installations and their associated equipment and connections.

1.02 The condensed connection charts contained in this section are included to assist the installer and are not intended to replace any of the other individual sections.

2.00 DESCRIPTION

2.01 Table 81.01 shows all connection information necessary to install a 1A1 key telephone system consisting of: five central office (CO) or private branch exchange (PBX) lines using one 212A and two 202B key telephone units; a 16A key telephone unit for the common audible signal circuit; a 101G power plant; and 564B key telephone sets.

2.02 Table 81.02 shows all connection information necessary to install a 1A1 key telephone system consisting of: three central office (CO) or private branch exchange (PBX) lines using three 202B key telephone units; a 209A key telephone unit for the system flashing and time-out circuit; a 16A key telephone unit for the common audible signal circuit; a 101G power plant; and 544B key telephone sets.

2.03 This information has been compiled from the various sections included in C71.353, 1A and 1A1 Key Telephone Systems, Connection Data, Index.

3.00 REFERENCES

Reference information for this section is given in Section C71.355, 1A1 Key Telephone System, Connection Data, Description and Use.

Condensed Connection Chart—1A1 Key Telephone System
Consisting of: One 212A Key Telephone Unit; Two 202B
Key Telephone Units; One 16A Key Telephone Unit; a
101G Power Plant; and 564B Key Telephone Sets

Connections to Be Made at Apparatus Cabinet																				
Incoming Cable Connections								Strapping				Key and Running Cable Connections								
CO or PBX Line No.	Lead Desig	Incoming Cable		Key Telephone Units				Key Telephone Units				Key and Running Cable		Conn Block		564B Key Tel Set				
		Pair No.	C Type	D Type	212A (A, B, C)	1st 202B	2nd 202B	16A	212A (A, B, C)	1st 202B	2nd 202B	16A	Pair No.	C Type	D Type	Term.	No.	Term. Desig	Cord Conductor	
		Color		Terminal				Terminal				Terminal		Color				Color		
1	R T	1	BL W	BL W	(A)32 (A)31			(A)9—(A)10 (B)9—(B)10				(A)2, 12, 22 (A)1, 11, 21	1	BL W	BL W	1 2	1	1R 1T	R G	
2	R T	2	O W	O W	(B)32 (B)31			(C)9—(C)10 (A)27—(A)37				(A)6, 16, 26 (A)3, 13, 23	2	O W	O W	4 5		1B 1H	Y BK	
3	R T	3	G W	G W	(C)32 (C)31				9—10		9—10	(B)2, 12, 22 (B)1, 11, 21	3	G W	G W	6 7		2R 2T	BL W	
4	R T	4	BR W	BR W		32 31		(A)30 (A, B, C)36 (A, B, C)7	30 36 7	30 36 7	1 4	(B)6, 16, 26 (B)3, 13, 23	4	BR W	BR W	9 10		2H	BR-R† BR-G	
5	R T	5	S W	S W								(C)2, 12, 22 (C)1, 11, 21	5	S W	S W	3 8		3R 3T	BR-Y BR-BK	
101G Power Plant*								(A)17 (A)18	27 28	27 28		(C)6, 16, 26 (C)3, 13, 23	6	BL-W W	BL R	1 2	2	3H	BR-BL† BR-W	
Power Desig								(B)19 (B)20	37 38	37 38			2, 12, 22 1, 11, 21	7	BL-O W	O R		4 5	4R 4T	R-G R-Y
20-volt DC Talk	BAT.	7 8	BL-O(W) BL-G(W)	O(R) G(R)	(A)29	29	29	(C)18 (C)17	32 31				6, 16, 26 3, 13, 23	8	BL-G W	G R		6 7	4H	R-BK† R-BL
	GRD	7 8	W(BL-O) W(BL-G)	R(O) R(G)	(A)30	30	30	(C)20 (C)19	34 33				2, 12, 22 1, 11, 21	9	BL-BR W	BR R		9 10	5R 5T	R-W G-Y
18-volt AC Signal	± GRD	11	O-W W	BL BK	(A)19 (A)20	19 20	19 20	(B)17 (B)18	17 18				6, 16, 26 3, 13, 23	10	BL-S W	S R		3 8	5H	G-BK† G-BL
10-volt AC Lamp	±	12 13	O-G(W) O-BR(W)	O(BK) G(BK)	(A)39	39	39	(C)28 (C)27		32 31			3 9	12	O-G W	O BK	4 5	3	RR RT	Y-BL Y-W
		14 15	O-S(W) G-W(W)	BR(BK) S(BK)				(C)30 (C)29		34 33			(A)4, 14, 24 (A)5, 15, 25	16	G-BR W	BL Y	1 2	4	1 LG	S-Y S-BK
	GRD	12 13	W(O-G) W(O-BR)	BK(O) BK(G)	(A)40	40	40	(B)27 (B)28		17 18				(B)4, 14, 24 (B)5, 15, 25	17	G-S W	O Y	4 5	†	S-BL
		14 15	W(O-S) W(G-W)	BK(BR) BK(S)				(C)4, 14, 24 (C)5, 15, 25	18	BR-W W	G Y	6 7	†	S-W						
		4, 14, 24 5, 15, 25	19	BR-S W	BR Y	9 10	†	S-BR												
		4, 14, 24 5, 15, 25	20	S-W W	S Y	3 8	†	BR												

† These conductors are not terminated in set.

‡ Lamp ground leads—strap to terminal 2(LG) of fourth block.

* Make certain that power plant has satisfactory local ground.

Condensed Connection Chart—1A1 Key Telephone System
 Consisting of: One 209A Key Telephone Unit; Three 202B
 Key Telephone Units; One 16A Key Telephone Unit; a
 101G Power Plant; and 544B Key Telephone Sets

Connections to Be Made at Apparatus Cabinet																									
Incoming Cable Connections										Strapping					Key and Running Cable Connections										
CO or PBX Line No.	Lead Desig	Incoming Cable		Key Telephone Units					Key Telephone Units					Key Telephone Units		Key and Running Cable		Conn Block		544B Key Tel Set					
		Pair No.	C Type	D Type	209A (A, B)	1st 202B	2nd 202B	3rd 202B	16A	209A (A, B)	1st 202B	2nd 202B	3rd 202B	16A	1st 202B	2nd 202B	3rd 202B	16A	Pair No.	C Type	D Type	Term.	No.	Term. Desig	Cord Conductor
		Color		Terminal					Terminal					Terminal		Color				Color					
1	R T	1	BL W	BL W		32 31			(A)4 (A)3	27 28	27 28	27 28		2, 12, 22 1, 11, 21				1	BL W	BL W	1 2		1R 1T	R G	
2	R T	2	O W	O W			32 31		(A)2 (A)1	37 38	37 38	37 38		6, 16, 26 3, 13, 23				2	O W	O W	4 5		1B 1H	Y BK	
3	R T	3	G W	G W				32 31	(A)34 (A)33	32 31					2, 12, 22 1, 11, 21			3	G W	G W	6 7	1	2R 2T	BL W	
101G Power Plant*									(A)36 (A)35	34 33					6, 16, 26 3, 13, 23			4	BR W	BR W	9 10		2H	BR-R† BR-G	
Power Desig									(A)38 (A)37		32 31					2, 12, 22 1, 11, 21		5	S W	S W	3 8		3R 3T	BR-Y BR-BK	
20-volt DC Talk	BAT. GRD	7 8	BL-O(W) BL-G(W)	O(R) G(R)	(B)18	29	29	29	(A)40 (A)39		34 33					6, 16, 26 3, 13, 23		6	BL-W W	BL R	1 2	2	3H	BR-BL† BR-W	
18-volt AC Signal	± GRD	11	O-W W	BL BK		19 20	19 20	19 20	(B)2 (B)1			32 31					3 9	12	O-G W	O BK	4 5	3	RR RT	Y-BL Y-W	
10-volt AC Lamp	±	12 13	O-G(W) O-BR(W)	O(BK) G(BK)					(B)4 (B)3			34 33		4, 14, 24 5, 15, 25				16	G-BR W	BL Y	1 2		1 LG	S-Y S-BK	
		14 15	O-S(W) G-W(W)	BR(BK) S(BK)		39	39	39		(A)25 (A)26			17 18						17	G-S W	O Y	4 5	4	‡	S-BL
	GRD	12 13	W(O-G) W(O-BR)	BK(O) BK(G)					(A)14—(A)15	9—10					4, 14, 24 5, 15, 25			18	BR-W W	G Y	6 7		3 ‡	S-W	
		14 15	W(O-S) W(G-W)	BK(BR) BK(S)		40	40	40				9—10	9—10												
											36	36	36	4											

† These conductors are not terminated in set.

‡ Lamp ground leads—strap to terminal 2(LG) of fourth block.

* Make certain that power plant has satisfactory local ground.