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MERLIN LEGEND™ Communications System Key System Planning Forms 555-610-116

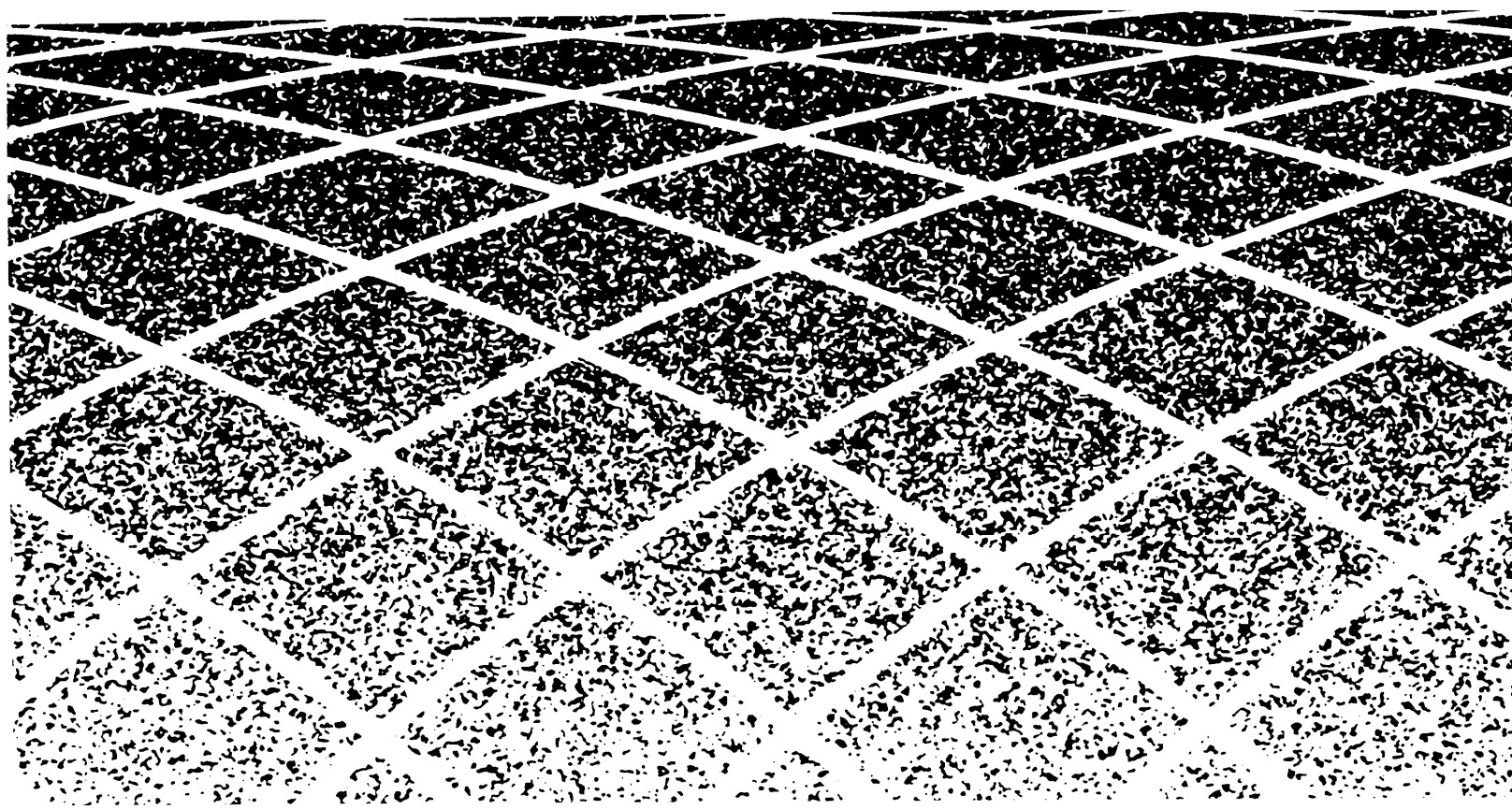
Ignore all references to the *small* processor module. The MERLIN LEGEND™ Communications System offers only one processor module. This processor module is referred to as a *large* processor module in this document.

Key System Form 1 - System Planning

Under the section "Size of Processor Module": *Always check the box labeled "large."*



MERLIN LEGEND™
Communications System
Key System Planning Forms



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**AT&T 555-610-116
Issue 1
August 1991**

Notice

Every effort was made to ensure that the information in this book was complete and accurate at the time of printing. However, information is subject to change.

Federal Communications Commission (FCC) Information

For important FCC interference, registration, and repair information, see "Customer Support Information" in *Key System Planning*.

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Support Telephone Number

AT&T provides a toll-free customer Helpline (1-800-628-2888) 24 hours a day (U.S.A. only). Call the Helpline, or your authorized dealer, if you need assistance when installing, programming, or using your system.

Employee Communication Survey

Name _____ Room _____ Extension _____

Name of work group (Sales, Customer service) _____

Please answer each question below.

1. Do you regularly use any of the following outside lines? (Check any that apply)

- WATS
- FX (foreign exchange)
- Tie
- None of the above or don't know

2. Are your phone calls covered when you're away from your desk?

- No
- Yes By whom? _____

3. Do you cover phone calls for co-workers when they are away from their desks?

- No
- Yes For whom? _____

Which of those people should have a button on your phone used exclusively for his or her calls?

When you are unable to cover calls, it is done by _____

4. Do you share the incoming call workload with others?

- No
- Yes With whom? _____

5. Would you say your phone use is

- Heavy
- Average
- Light

6. Do you have a data terminal or personal computer at your workstation?

No Do you expect to get one within the next year?

No

Yes

Yes Do you have a modem or ISDN 7500B Data Module?

No

Yes

7. Do you use account codes for charge-back of calls?

No

Yes Please list all the codes you use (attach another sheet if necessary):

8. Approximately how many times do you transfer calls? _____ times/day

9. Do you need to dial the same number over and over every day?

No

Yes Please list these numbers:

10. Do you want to be able to pick up other people's calls when you hear their phones ring?

No

Yes Please list these people:

11. Do you want your phone number to appear on another person's phone for screening, or covering calls, or for other reasons?

No

Yes Please list these people:

Key System Form 1

System Planning

Size of Processor Module

- Small — maximum 24 lines and/or 56 stations
 Large — maximum 80 lines and/or 144 stations

Capacity

Lines

Module Type	Number of Modules	Lines Supported by Module	Total Lines by Module Type
400	x	4	
800	x	8	
408	x	4	
400 GS/LS/TTR	x	4	
800 GS/LS	x	8	
408 GS/LS	x	4	
400EM	x	4	
100D	x	24*	
System Totals			

* The 100D module has one physical jack that supports 24 lines.

Stations

Module Type	Number of Modules	Physical Jacks per Module	Physical Jacks by Module Type	Station Extensions Assigned	Total Station Extensions Assigned
008 MLX	x	8	x	2	
008	x	8	x	1	
408	x	8	x	1	
408 GS/LS	x	8	x	1	
012	x	12	x	1	
008 OPT	x	8	+	(x 4) *	
System Totals					

* The 008 OPT module is assigned 12 extension numbers although there are only 8 physical station jacks.

Key System Form 1, Continued

Control Unit Diagram

Unit Load Total _____

Unit Load Total _____

Unit Load Total _____

Auxiliary Power Required

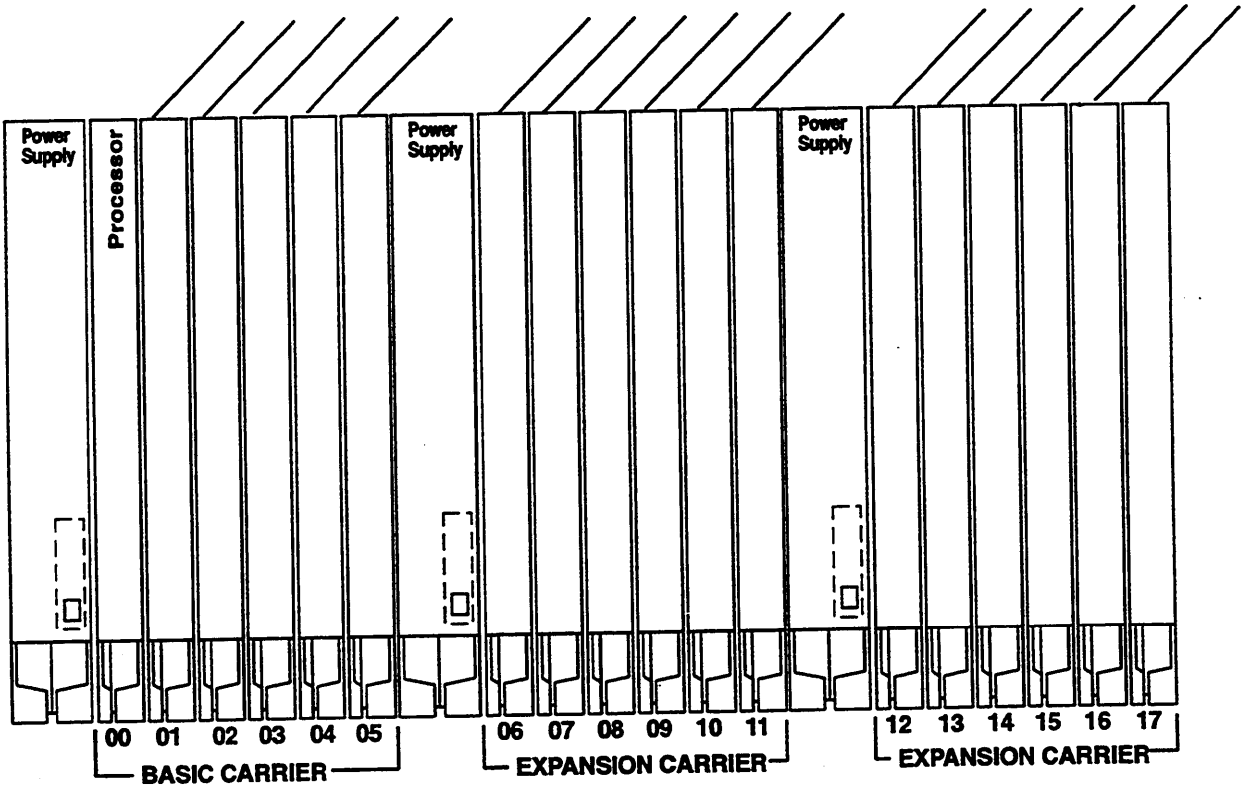
- Yes
- No

Auxiliary Power Required

- Yes
- No

Auxiliary Power Required

- Yes
- No



System Operating Conditions

System Programming Console

- No
- Logical ID _____ Ext. No. _____

Set System Mode

- Key ◆
- Behind Switch

Host Dial Code

- Conference _____
- Drop _____
- Transfer _____

Automatic Maintenance Busy

- Disable ◆
- Enable

Set System Date

- Yes
- No

Set System Time

- Yes
- No

◆ Factory Setting

Key System Form 2a, Continued

Logical ID	Jack Type			2-Digit Ext. No. ♦	3-Digit Ext. No.	Set Up Space	Renumber To	Person, Location, or Function
	A	D*	B					
31				40	130	7130		
32				41	131	7131		
33				42	132	7132		
34				43	133	7133		
35				44	134	7134		
36				45	135	7135		
37				46	136	7136		
38				47	137	7137		
39				48	138	7138		
40				49	139	7139		
41				50	140	7140		
42				51	141	7141		
43				52	142	7142		
44				53	143	7143		
45				54	144	7144		
46				55	145	7145		
47				56	146	7146		
48				57	147	7147		
49				58	148	7148		
50				59	149	7149		
51				60	150	7150		
52				61	151	7151		
53				62	152	7152		
54				63	153	7153		
55				64	154	7154		
56				65	155	7155		
57				66	156	7156		
58				67	157	7157		
59				6800	158	7158		
60				6801	159	7159		
61				6802	160	7160		
62				6803	161	7161		
63				6804	162	7162		
64				6805	163	7163		
65				6806	164	7164		
66				6807	165	7165		
67				6808	166	7166		
68				6809	167	7167		

Shaded lines indicate possible operator positions.

* Use Form 2b for adjuncts connected via MFM or ISDN 7500B Data Module.

♦ Factory Setting

Key System Form 2a, Continued

Logical ID	Jack Type			2-Digit Ext. No. ♦	3-Digit Ext. No.	Set Up Space	Renumber To	Person, Location, or Function
	A	D*	B					
69				6810	168	7168		
70				6811	169	7169		
71				6812	170	7170		
72				6813	171	7171		
73				6814	172	7172		
74				6815	173	7173		
75				6816	174	7174		
76				6817	175	7175		
77				6818	176	7176		
78				6819	177	7177		
79				6820	178	7178		
80				6821	179	7179		
81				6822	180	7180		
82				6823	181	7181		
83				6824	182	7182		
84				6825	183	7183		
85				6826	184	7184		
86				6827	185	7185		
87				6828	186	7186		
88				6829	187	7187		
89				6830	188	7188		
90				6831	189	7189		
91				6832	190	7190		
92				6833	191	7191		
93				6834	192	7192		
94				6835	193	7193		
95				6836	194	7194		
96				6837	195	7195		
97				6838	196	7196		
98				6839	197	7197		
99				6840	198	7198		
100				6841	199	7199		
101				6842	200	7200		
102				6843	201	7201		
103				6844	202	7202		
104				6845	203	7203		
105				6846	204	7204		
106				6847	205	7205		

Shaded lines indicate possible operator positions.

* Use Form 2b for adjuncts connected via MFM or ISDN 7500B Data Module.

♦ Factory Setting

Key System Form 2a, Continued

Logical ID	Jack Type			2-Digit Ext. No. ♦	3-Digit Ext. No.	Set up Space	Renumber To	Person, Location, or Function
	A	D*	B					
107				6848	206	7206		
108				6849	207	7207		
109				6850	208	7208		
110				6851	209	7209		
111				6852	210	7210		
112				6853	211	7211		
113				6854	212	7212		
114				6855	213	7213		
115				6856	214	7214		
116				6857	215	7215		
117				6858	216	7216		
118				6859	217	7217		
119				6860	218	7218		
120				6861	219	7219		
121				6862	220	7220		
122				6863	221	7221		
123				6864	222	7222		
124				6865	223	7223		
125				6866	224	7224		
126				6867	225	7225		
127				6868	226	7226		
128				6869	227	7227		
129				6870	228	7228		
130				6871	229	7229		
131				6872	230	7230		
132				6873	231	7231		
133				6874	232	7232		
134				6875	233	7233		
135				6876	234	7234		
136				6877	235	7235		
137				6878	236	7236		
138				6879	237	7237		
139				6880	238	7238		
140				6881	239	7239		
141				6882	240	7240		
142				6883	241	7241		
143				6884	242	7242		
144				6885	243	7243		

Shaded lines indicate possible operator positions.

* Use Form 2b for adjuncts connected via MFM or ISDN 7500B Data Module.

♦ Factory Setting

Key System Form 2c

System Numbering — Line Jacks

Music-on-Hold, Logical ID _____ Source _____ Maintenance Alarm, Logical ID _____

Loudspeaker Page, Logical ID _____ Loop-Start Reliable Disconnect
 No Yes

Logical ID	Jack Type (LS, GS, Tie, DS1)	Line Number	Line Type (Basic LS, WATS, FX, etc.)	Telephone Number or Equipment	Outmode Rotary Dial		Toll Prefix Not Needed for LD		Short Hold Disconnect Interval	
					Yes	No <input type="checkbox"/>	Yes	No <input type="checkbox"/>	Yes	No <input type="checkbox"/>
1		801								
2		802								
3		803								
4		804								
5		805								
6		806								
7		807								
8		808								
9		809								
10		810								
11		811								
12		812								
13		813								
14		814								
15		815								
16		816								
17		817								
18		818								
19		819								
20		820								
21		821								
22		822								
23		823								
24		824								
25		825								
26		826								
27		827								
28		828								
29		829								
30		830								
31		831								
32		832								
33		833								
34		834								
35		835								
36		836								
37		837								

Factory Setting

Key System Form 2c, Continued

Logical ID	Jack Type (LS, GS, Tie, DSI)	Line Number	Line Type (Basic LS, WATS, FX, etc.)	Telephone Number or Equipment	Outmode Rotary Dial		Toll Prefix Not Needed for LD		Short Hold Disconnect Interval	
					Yes	No ♦	Yes	No ♦	Yes	No ♦
38		838								
39		839								
40		840								
41		841								
42		842								
43		843								
44		844								
45		845								
46		846								
47		847								
48		848								
49		849								
50		850								
51		851								
52		852								
53		853								
54		854								
55		855								
56		856								
57		857								
58		858								
59		859								
60		860								
61		861								
62		862								
63		863								
64		864								
65		865								
66		866								
67		867								
68		868								
69		869								
70		870								
71		871								
72		872								
73		873								
74		874								
75		875								
76		876								
77		877								
78		878								
79		879								
80		880								

♦ Factory Setting

Key System Form 2d

System Numbering — Special Renumbers

Group Calling (Form 6e) Group ID	Factory-Set Number	Renumber To
	770	
	771	
	772	
	773	
	774	
	775	
	776	
	777	
	778	
	779	
	780	
	781	
	782	
	783	
	784	
	785	
	786	
	787	
	788	
	789	
	790	
	791	
	7920	
	7921	
	7922	
	7923	
	7924	
	7925	
	7926	
	7927	
	7928	
	7929	

Call Park (Form 6a)	Factory-Set Number	Renumber To
	881	
	882	
	883	
	884	
	885	
	886	
	887	
	888	

Group Paging (Form 6c) Group ID	Factory-Set Number	Renumber To
	793	
	794	
	795	
	796	
	797	
	798	
Page All	799	

Remote Access Code (Form 3a)	Factory-Set Number	Renumber To
	889	

Key System Form 2e

System Technician's Run Sheet

Logical ID	Type	Wire No.	Old Ext. No.	New Ext. No.	Miscellaneous	Person, Location, or Function
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Key System Form 2e, Continued

Logical ID	Type	Wire No.	Old Ext. No.	New Ext. No.	Miscellaneous	Person, Location, or Function
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						

Key System Form 2e, Continued

Logical ID	Type	Wire No.	Old Ext. No.	New Ext. No.	Miscellaneous	Person, Location, or Function
39						
40						
41						
42						
43						
44						
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						

Key System Form 2e, continued

Logical ID	Type	Wire No.	Old Ext. No.	New Ext. No.	Miscellaneous	Person, Location, or Function
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						

Key System Form 2e, Continued

Logical ID	Type	Wire No.	Old Ext. No.	New Ext. No.	Miscellaneous	Person, Location, or Function
79						
80						
81						
82						
83						
84						
85						
86						
87						
88						
89						
90						
91						
92						
93						
94						
95						
96						
97						
98						

Key System Form 2e, Continued

Logical ID	Type	Wire No.	Old Ext. No.	New Ext. No.	Miscellaneous	Person, Location, or Function
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						

Key System Form 2e, Continued

Logical ID	Type	Wire No.	Old Ext. No.	New Ext. No.	Miscellaneous	Person, Location, or Function
119						
120						
121						
122						
123						
124						
125						
126						
127						
128						
129						
130						
131						
132						
133						
134						
135						
136						
137						
138						

Key System Form 2e, Continued

Logical ID	Type	Wire No.	Old Ext. No.	New Ext. No.	Miscellaneous	Person, Location, or Function
139						
140						
141						
142						
143						
144						

Key System Form 3a, Continued

Class of Restriction Without Barrier Code

Tie Trunks

Restriction

- Outward Restrict ♦
- Unrestricted
- Toll Restrict

Allowed List Access

List Nos. (1-8)

Disallowed List Access

List Nos. (1-8)

Non-Tie Lines

Restriction

- Outward Restrict ♦
- Unrestricted
- Toll Restrict

Allowed List Access

List Nos. (1-8)

Disallowed List Access

List Nos. (1-8)

Class of Restriction With Barrier Codes

Maximum: 16 barrier codes. Make copies if more than 4 barrier codes are assigned.

Barrier Code
 Number _____
 Digits _____ (4 digits, 0-9)

Restriction
 Outward Restrict ◆
 Unrestricted
 Toll Restrict

Allowed List Access
 List Nos. (1-8)

Disallowed List Access
 List Nos. (1-8)

Barrier Code
 Number _____
 Digits _____ (4 digits, 0-9)

Restriction
 Outward Restrict ◆
 Unrestricted
 Toll Restrict

Allowed List Access
 List Nos. (1-8)

Disallowed List Access
 List Nos. (1-8)

Barrier Code
 Number _____
 Digits _____ (4 digits, 0-9)

Restriction
 Outward Restrict ◆
 Unrestricted
 Toll Restrict

Allowed List Access
 List Nos. (1-8)

Disallowed List Access
 List Nos. (1-8)

Barrier Code
 Number _____
 Digits _____ (4 digits, 0-9)

Restriction
 Outward Restrict ◆
 Unrestricted
 Toll Restrict

Allowed List Access
 List Nos. (1-8)

Disallowed List Access
 List Nos. (1-8)

◆ Factory Setting

Key System Form 3b

(Reserved for Hybrid/PBX)

Key System Form 3c

Outside Lines- DS1 Facility (100D Module)

Module 1 Slot No. _____

Type of Service

- T1 ◆
- ISDN-PRI

Frame Format

- D4 ◆
- ESF

Suppression (Line Code)

- AMI-ZCS ◆
- B8ZS

Line Compensation

_____ Cable Feet

- 1 ◆ (.6dB)
- 2 (1.2 dB)
- 3 (1.8 dB)
- 4 (2.4 dB)
- 5 (3.0 dB)

Clock Synchronization

Priority

- Primary ◆
- Secondary
- Tertiary
- None

Source

- Loop ◆
- Local

Activation

- Active ◆
- Not Active

Signaling Mode

- RBS ◆
- CCS

Channel Service Unit

- Foreign Exchange ◆
- Special Access

◆ Factory Setting

Module 2 Slot No. _____

Type of Service

- T1 ◆
- ISDN-PRI

Frame Format

- D4 ◆
- ESF

Suppression (Line Code)

- AMI-ZCS ◆
- B8ZS

Line Compensation

_____ Cable Feet

- 1 ◆ (.6dB)
- 2 (1.2 dB)
- 3 (1.8 dB)
- 4 (2.4 dB)
- 5 (3.0 dB)

Clock Synchronization

Priority

- Primary
- Secondary
- Tertiary
- None

Source

- Loop ◆
- Local

Activation

- Active ◆
- Not Active

Signaling Mode

- RBS ◆
- CCS

Channel Service Unit

- Foreign Exchange ◆
- Special Access

Module 3 Slot No. _____

Type of Service

- T1 ◆
- ISDN-PRI

Frame Format

- D4 ◆
- ESF

Suppression (Line Code)

- AMI-ZCS ◆
- B8ZS

Line Compensation

_____ Cable Feet

- 1 ◆ (.6dB)
- 2(1.2 dB)
- 3(1.8 dB)
- 4 (2.4 dB)
- 5 (3.0 dB)

Clock Synchronization

Priority

- Primary
- Secondary
- Tertiary
- None

Source

- Loop ◆
- Local

Activation

- Active ◆
- Not Active

Signaling Mode

- RBS ◆
- CCS

Channel Service Unit

- Foreign Exchange ◆
- Special Access

Key System Form 3c, Continued

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Key System Form 3c, Continued

General Business Systems T1/ISDN-PRI Planner

Reference No. _____

Customer

* Name _____ Tel. No. _____

* Address _____

* AT&T DOSS Order Number _____

* Account Executive _____ Tel. No. _____

* Systems Consultant _____ Tel. No. _____

T1/ISDN-PRI Vendor

* Name _____

Contact _____ Tel. No. _____

Installation

Due Date _____

Materials-on-Job Date _____

AT&T Installation Contacts

Implementor _____ Tel. No. _____

NTM Manager _____ Tel. No. _____

NTSC Engineer _____ Tel. No. _____

DSO Manager _____ Tel. No. _____

Has order been placed with the network provider for this service?

Yes, Date _____

No

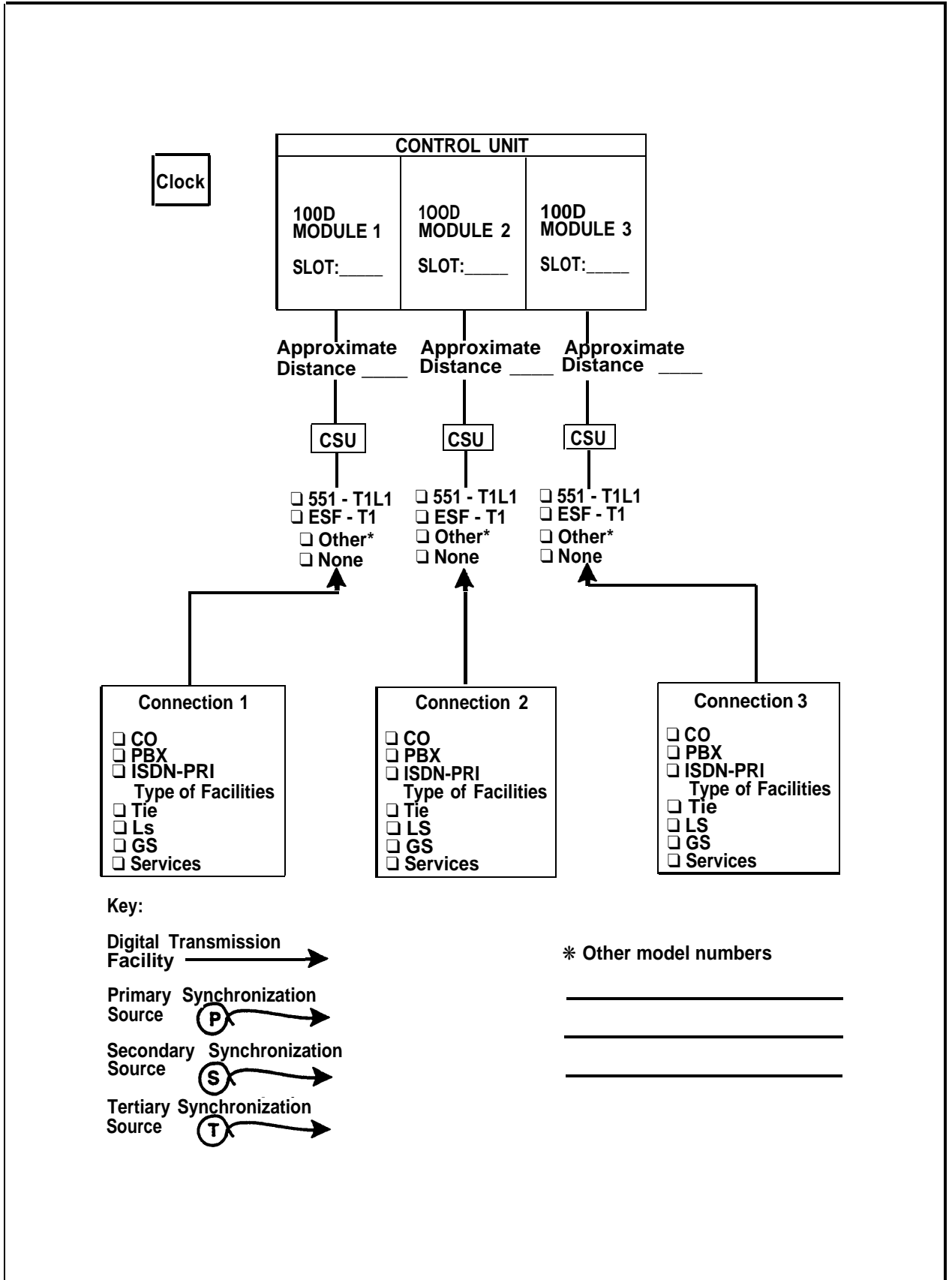
* Required fields for presale.

Key System Form 3c, Continued

* MODULE 1	
Service Ordered or Planned <input type="checkbox"/> ISDN-PRI <input type="checkbox"/> T1	Line Coding (Suppression) <input type="checkbox"/> B8ZS-Required for ISDN-PRI. <input type="checkbox"/> AMI-ZCS
Frame Format <input type="checkbox"/> ESF - Preferred. Required for ISDN-PRI and international data transmission. <input type="checkbox"/> D4 - Maybe used if required by local telephone company.	Line Signaling Mode <input type="checkbox"/> Common Channel - Required for ISDN-PRI. <input type="checkbox"/> Robbed Bit
	Synchronization Timing <input type="checkbox"/> Loop-Required for ISDN-PRI. <input type="checkbox"/> Local
* MODULE 2	
Service Ordered or Planned <input type="checkbox"/> ISDN-PRI <input type="checkbox"/> T1	Line Coding (Suppression) <input type="checkbox"/> B8ZS - Required for ISDN-PRI. <input type="checkbox"/> AMI-ZCS
Frame Format <input type="checkbox"/> ESF - Preferred. Required for ISDN-PRI and international data transmission. <input type="checkbox"/> D4 - May be used if required by local telephone company.	Line Signaling Mode <input type="checkbox"/> Common Channel - Required for ISDN-PRI. <input type="checkbox"/> Robbed Bit
	Synchronization Timing <input type="checkbox"/> Loop-Required for ISDN-PRI. <input type="checkbox"/> Local
* MODULE 3	
Service Ordered or Planned <input type="checkbox"/> ISDN-PRI <input type="checkbox"/> T1	Line Coding (Suppression) <input type="checkbox"/> B8ZS - Required for ISDN-PRI. <input type="checkbox"/> AMI-ZCS
Frame Format <input type="checkbox"/> ESF - Preferred. Required for ISDN-PRI and international data transmission. <input type="checkbox"/> D4 - Maybe used if required by local telephone company.	Line Signaling Mode <input type="checkbox"/> Common Channel - Required for ISDN-PRI. <input type="checkbox"/> Robbed Bit
	Synchronization Timing <input type="checkbox"/> Loop-Required for ISDN-PRI. <input type="checkbox"/> Local

* All fields required for presale.

Network Planning Map



Key System Form 3c, Continued

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Key System Form 3c, Continued

Non-Complex Configuration

Module ____ of ____ Slot No. ____

*** Services**

SUBSCRIBED TO:	CHANNELS ASSIGNED TO SERVICE																							
<input type="checkbox"/> Ground-start (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Loop-Start (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Tie Trunk (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> MultiQuest 900 (w/wo DNIS)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom 800 (w/wo DNIS) (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom/Megacom 800 (T1)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Software Defined Network (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Accunet Switched Digital Service (ISDN-PRI only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Other	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Other	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

ISDN-PRI Identification Service

* Will SID/ANI be used? No Yes, for

Incoming calls ANI SID Both... Prefer _____ then _____

Outgoing calls ANI SID SID/ANI Privacy

Note: The DNIS service is supported only on T1 services.

Channel Service Unit

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> *
Mfr	AT&T	AT&T	_____
Md1	551-T1 L1	ESF-T1	_____
REG#	GI 472-16819-DE-N	GIC 472-16544-DE-N	_____
FIC	4DU 158	4DN 188	_____

* If a CSU other than the two listed AT&T models is used, AT&T will not accept the responsibility for its installation, connection, or testing.

* Required fields for presale.

Key System Form 3c, Continued

Non-Complex Configuration

Module _____ of _____ Slot No. _____

*** Services**

SUBSCRIBED TO:	CHANNELS ASSIGNED TO SERVICE																							
<input type="checkbox"/> Ground-start (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Loop-Start (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Tie Trunk (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> MultiQuest 900(w/wo DNIS) (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom 800(w/wo DNIS) (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom/Megacom 800 (T1)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Software Defined Network (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Accunet Switched Digital Service (ISDN-PRI only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Other	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Other	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

ISDN-PRI Identification Service

* Will SID/ANI be used?	<input type="checkbox"/> No	<input type="checkbox"/> Yes, for
Incoming calls <input type="checkbox"/> ANI	<input type="checkbox"/> SID	<input type="checkbox"/> Both...Prefer _____ then _____
Outgoing calls <input type="checkbox"/> ANI	<input type="checkbox"/> SID	<input type="checkbox"/> OSID/ANI Privacy

Note: The DNIS service is supported only on T1 services.

Channel Service Unit

Mfr	<input type="checkbox"/> AT&T	<input type="checkbox"/> AT&T	<input type="checkbox"/> *
Md1	551-T1 L1	ESF-T1	_____
REG#	GI 472-16819-DE-N	GIC 472-16544-DE-N	_____
FIC	4DU 158	4DN 188	_____
* If a CSU other than the two listed AT&T models is used, AT&T will not accept the responsibility for its installation, connection, or testing.			

* Required fields for presale.

Key System Form 3c, Continued

Non-Complex Configuration

Module ____ of ____ Slot No. ____

*** Services**

SUBSCRIBED TO:	CHANNELS ASSIGNED TO SERVICE																							
<input type="checkbox"/> Ground-start (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Loop-Start (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Tie Trunk (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> MultiQuest 900 (w/wo DNIS) (T1 only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom 800 (w/wo DNIS) (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Megacom/Megacom 800 (T1)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Software Defined Network (T1 or ISDN-PRI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Accunet Switched Digital Service (ISDN-PRI only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Other	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<input type="checkbox"/> Other	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

ISDN-PRI Identification Service

* Will SID/ANI be used? No Yes, for

Incoming calls ANI SID Both...Prefer _____ then _____

Outgoing calls ANI SID SID/ANI Privacy

Note: The DNIS service is supported only on T1 services.

Channel Service Unit

Mfr	<input type="checkbox"/> AT&T	<input type="checkbox"/> AT&T	<input type="checkbox"/> *
Md1	551-T1 L1	ESF-T1	_____
REG#	GI 472-16819-DE-N	GIC 472-16544-DE-N	_____
FIC	4DU 158	4DN 188	_____

* If a CSU other than the two listed AT&T models is used, AT&T will not accept the responsibility for its installation, connection, or testing.

* Required fields for presale.

Key System Form 4a

Analog Multiline Telephone

Make a copy of this form for each telephone.

Logical ID _____ Extension No. _____ Person or Location _____

Station Jack Pair

- Voice Announce to Busy (voice/voice)
- Simultaneous Voice and Data (voice/data)
Even-numbered jack
Logical ID _____ Ext. No. _____

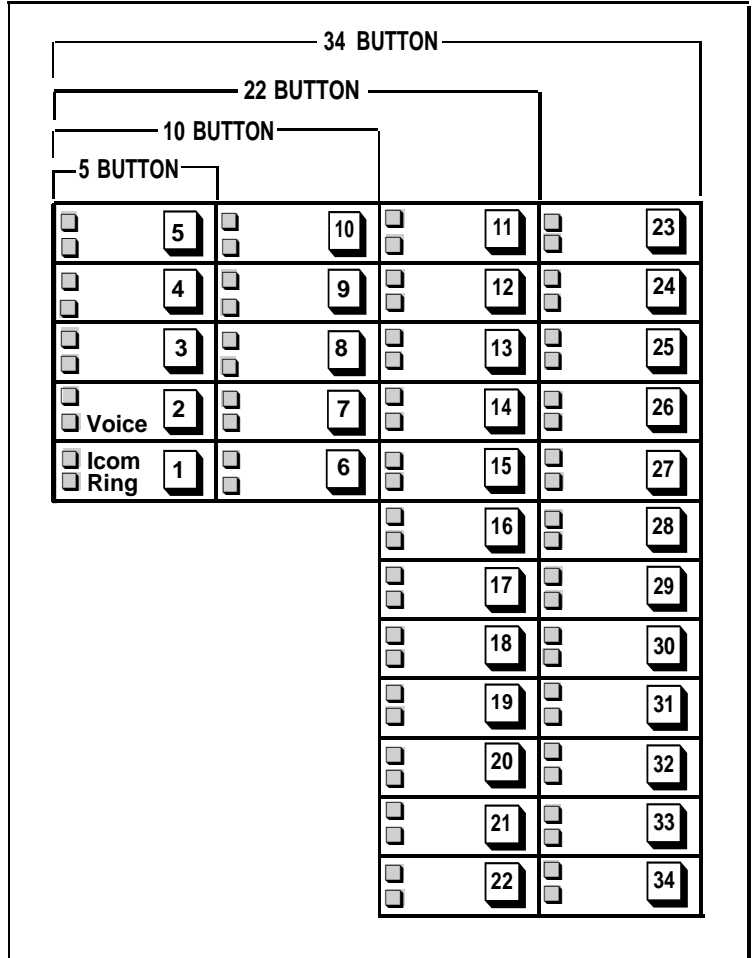
Telephone Model

- MLC-5 BIS-22D
- BIS-10 BIS-34
- BIS-22 BIS-34D
- Other _____

Adjuncts

- General Purpose Adapter
 - Fax machine
 - Answering machine
 - Data terminal
 - Other _____
- Supplemental Alert Adapter
Alert device type _____
- Headset
- Headset adapter
- Hands-free unit
- Hearing-impaired handset
- Noisy environment
- Other _____

Button Diagram



Optional Features

Call Restriction

- Unrestricted ♦
- Outward Restrict
- Toll Restrict

Forced Account Code Entry

- No ♦
- Yes

Remote Call Forward

- Not allowed ♦
- Allowed

Principal User of Personal Line

Line No. (801-880) _____
Tel. No. _____

Message-Waiting Receiver

- Fax machine at
- Ext. No. _____

Individual Coverage Receivers

Primary receivers

Secondary receivers

Group Coverage

- No ♦
- Group No. _____

♦ Factory Setting

Key System Form 4b

Digital/ISDN (MLX) Telephone

Make a copy of this form for each telephone.

Logical ID _____ Extension No. _____ Person or Location _____

Telephone Model

- MLX-20L™
- MLX-28D™
- MLX-10D™
- MLX-10™

Adjuncts

- Headset
- Hearing-impaired handset
- Noisy environment
- Multi-Function Module (MFM) Extension No. _____
- Fax machine
- Answering machine
- Data terminal
- Alert device, type _____
- Other _____

Optional Features

Call Restriction

- Unrestricted ♦
- Outward Restrict
- Toll Restrict

Forced Account Code Entry

- No ♦
- Yes

Microphone Operation

- Enable ♦
- Disable

Remote Call Forward

- Not allowed ♦
- Allowed

Principal User of Personal Line

Line No. (801-880) _____
 Tel No. _____

Message-Waiting Receiver

- Fax machine at
 Ext. No. _____

Individual Coverage Receivers

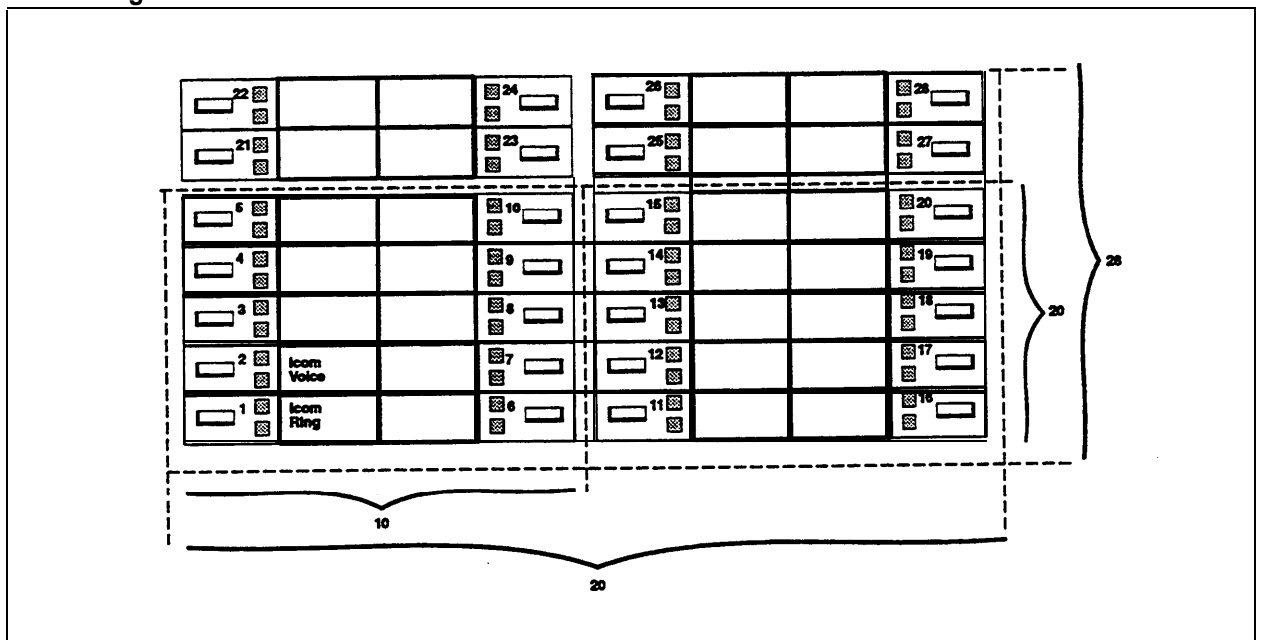
Primary receivers

Secondary receivers

Group Coverage

- No ♦
- Group No. _____

Button Diagram



♦ Factory Setting

MFM Adjunct

Extension No. _____

Person or Location _____

Adjuncts

- Fax machine
- Answering machine
 - Used as delay announcement device for calling groups
Ext. No. _____
- Data terminal
- Alert device, type _____
 - Used as Calls-in-Queue Alarm device for calling groups
Ext. No. _____
- Other _____

Button Diagram

5	10
4	9
Icom Orig. Only 3	8
Icom Voice 2	7
Icom Ring 1	6

Optional Features

Call Restriction

- Unrestricted ◆
- Outward Restrict
- Toll Restrict
(If designated as delay announcement, outward restrict)

Forced Account Code Entry

- No ◆
- Yes

Remote Call Forward

- Not allowed ◆
- Allowed

Principal User of Personal Line

Line No. (801-880) _____
Tel. No. _____

Fax Machine Features

- Fax Machine Receiver
 - No ◆
 - Extension No. _____
- Fax Message Threshold
 - 10 seconds ◆
 - _____ seconds (0 - 9, 11 - 30)

Centralized Programming Requirements

- Disable Voice Announce
- Change button 2 assignment to Icom Originate Only and remove button 3 assignment
- Enable Ringing/Idle Line Preference
- Change Automatic Line Selection order to:
(1) Icom Ring, (2) Icom Originate Only, (3) outside lines assigned to buttons 3 through 10
- Set Ringing Option to No Ring for each personal line on which calls are not received

◆ Factory Setting

Key System Form 4c

Tip/Ring Equipment

Make a copy of this form for each device.

Logical ID _____ Extension No. _____ Person or Location _____

Type

- Single-line telephone
- Answering machine
- Used as delay announcement device for calling groups
Ext. No. _____

- Fax machine
- Other

Adjuncts

- Speakerphone
- Hearing-impaired handset
- Noisy environment

Optional Features

Call Restriction

- Unrestricted ♦
- Outward Restrict
- Toll Restrict
(If designated as delay announcement, outward restrict)

Forced Account Code Entry

- No ♦
- Yes

Remote Call Forward

- Not allowed ♦
- Allowed

Principal User of Personal Line

Line No. (801-880) _____
Tel. No. _____

Button Diagram

5	10
4	9
3	8
2 Icom Ring	7
1 Icom Ring	6

Fax Machine Features

Fax Message Receiver

- No ♦
- Ext. No. _____

Fax Message Threshold

- 10 seconds ♦
- _____ seconds (0 - 9, 11-30)

Individual Coverage Receivers

Primary receivers

Secondary receivers

Message-Waiting Receiver

- Fax machine at Ext. No. _____

♦ Factory Setting

Key System Form 5a

Direct-Line Console (DLC) — Analog

Make a copy of this form for each telephone

Logical ID _____ Extension No. _____ Person or Location _____

Station Jack Pair

- Voice Announce to Busy (voice/voice)
- Simultaneous Voice and Data (voice/data)
 - Even-numbered jack
 - Logical ID _____ Ext. No. _____

Console Model

- MERLIN II System Display Console
- BIS-34D
- BIS-34
- BIS-22

Adjuncts

- General Purpose Adapter
 - Fax machine
 - Answering machine
 - Data terminal
 - Other _____
- Supplemental Station Alert Adapter
 - Alert Device type _____
- Headset
- Headset adapter
- Hearing-impaired handset
- Noisy environment
- Other _____

Optional Features

Call Restriction

- Unrestricted ♦
- Outward Restrict
- Toll Restrict

Forced Account Code Entry

- No ♦
- Yes

Remote Call Forward

- Not allowed ♦
- Allowed

Principal-User of Personal line

Line Number (801-880) _____
 Telephone No. _____

Message-Waiting Receiver

Fax machine at Ext. No. _____

Individual Coverage Receivers

Primary receivers

Secondary receivers

Group Coverage

- No ♦
- Group No. _____

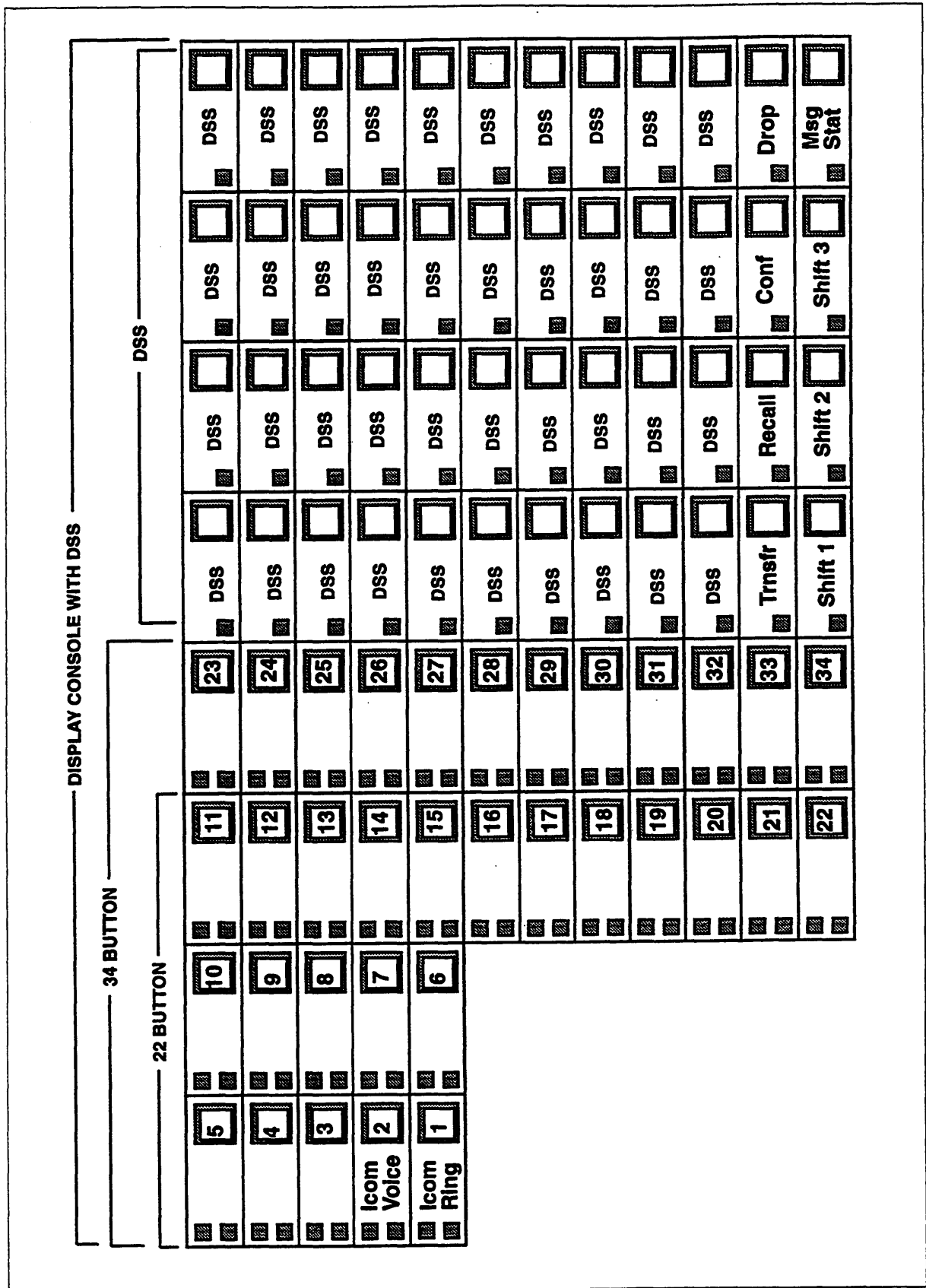
Extension Status

- No ♦
- Yes
-

See back for button diagram

♦ Factory Setting

Button diagram



Assignment of outside lines to console buttons begins with button number 3

Key System Form 5b

Direct-Line Console (DLC)—Digital/ISDN

Make a copy of this form for each console.

Logical ID _____ Extension No. _____ Person or Location _____

Console Model

- MLX-20L™
- MLX-28D™

Adjuncts

- Direct Station Selector
Number (1 or 2) _____
- Multi-Function Module (MFM)
Extension No. _____
 - Fax machine
 - Answering machine
 - Data terminal
 - Alert device
Type _____
 - Other _____
- Headset
- Hearing-impaired handset
- Noisy environment

Optional Features

Call Restriction

- Unrestricted ♦
- Outward Restrict
- Toll Restrict

Forced Account Code Entry

- No ♦
- Yes

Microphone Operation

- Enable ♦
- Disable

Remote Call Forward

- Not allowed ♦
- Allowed

Principal User of Personal Line

Line No. (801-880) _____
Tel. No. _____

Message-Waiting Receiver

- Fax machine at
Ext. No. _____

Individual Coverage Receivers

Primary receivers

Secondary receivers

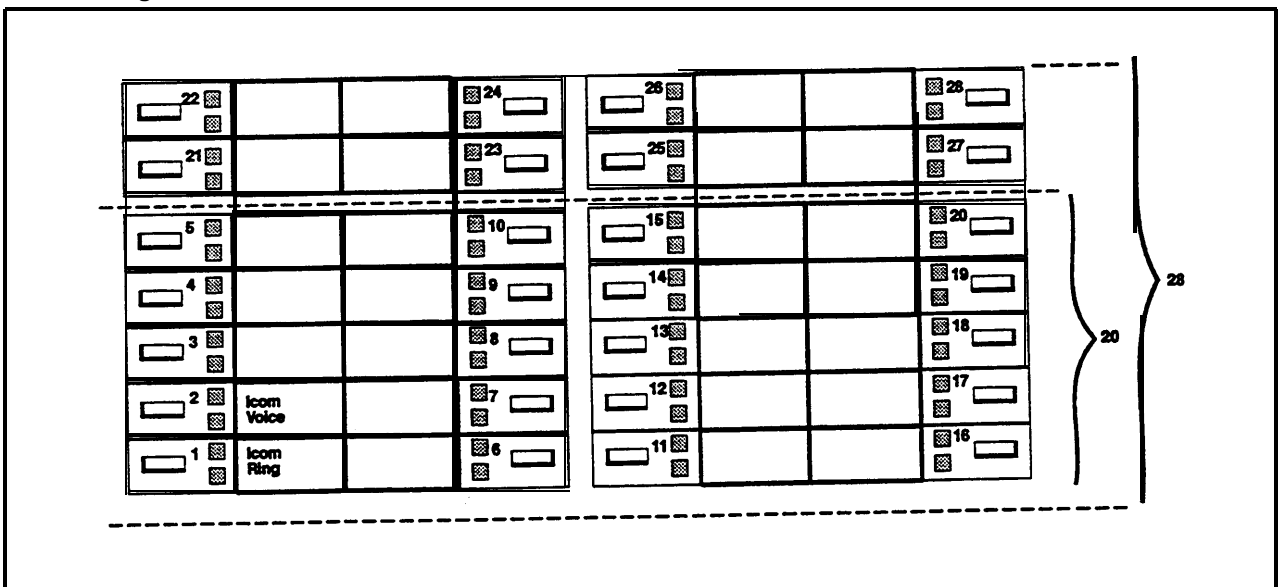
Group Coverage

- No ♦
- Group No. _____

Extension Status

- No ♦
- Yes

Button Diagram



Assignment of outside lines to console buttons begins with button number 3.

♦ Factory Setting

MFM Adjunct

Extension No. _____

Person or Location _____

Adjuncts

- Fax machine
- Answering machine
 - Used as delay announcement device for calling groups
Ext. No. _____
- Data terminal
- Alert device, type _____
 - Used as Calls-In-Queue Alarm device for calling groups
Ext. No. _____
- Other _____

Button Diagram

5	10
4	9
Icom Orig. Only	8
Icom Voice 2	7
Icom Ring 1	6

Optional Features

Call Restriction

- Unrestricted ♦
- Outward Restrict
- Toll Restrict
(If designated as delay announcement, outward restrict)

Forced Account Code Entry

- No ♦
- Yes

Remote Call Forward

- Not allowed ♦
- Allowed

Principal User of Personal Line

Line No. (801- 880) _____
Tel. No. _____

Fax Machine Features

Fax Machine Receiver

- No ♦
- Extension No. _____

Fax Message Threshold

- 10 seconds ♦
- _____ seconds (0 - 9, 11 - 30)

♦ Factory Setting

Centralized Programming Requirements

- Disable Voice Announce
- Change button 2 assignment to Icom Originate Only and remove button 3 assignment
- Enable Ringing/Idle Line Preference
- Change Automatic Line Selection order to: (1) Icom Ring, (2) Icom Originate Only, (3) outside lines assigned to buttons 3 through 10
- Set Ringing Option to No Ring for each personal line on which calls are **not** received.

Key System Form 6a

Optional Operator Features

Direct-Line Console

Operator Hold Timer

- 60 seconds ♦
 _____ seconds (10-59, 61- 255)

DLC Automatic Hold

- Disable ♦
 Enable

Direct Station Selector

Page Buttons

Page Button	1	2	3
Beginning extension for range			

Enter first extension number for range of 50 (1 DSS) or 100 (2 DSSs) extensions for each Page button.

Call Park Codes

Factory-Set Extension No.	Renumber To	Factory-Set Extension No.	Renumber To
881		885	
882		886	
883		887	
884		888	

♦ Factory Setting

Key System Form 6b**Call Pickup Groups**

Maximum: 30 groups. Make additional copies if more than 8 groups are assigned.

Group Number _____ Group ID _____			Group Number _____ Group ID _____		
	Ext. No.	Person or Location		Ext. No.	Person or Location
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
15			15		

Group Number _____ Group ID _____			Group Number _____ Group ID _____		
	Ext. No.	Person or Location		Ext. No.	Person or Location
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
15			15		

Key System Form 6b, Continued

Group Number _____ Group ID _____			Group Number _____ Group ID _____		
	Ext. No.	Person or Location		Ext. No.	Person or Location
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
15			15		

Group Number _____ Group ID _____			Group Number _____ Group ID _____		
	Ext. No.	Person or Location		Ext. No.	Person or Location
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
8			8		
9			9		
10			10		
11			11		
12			12		
13			13		
14			14		
15			15		

Key System Form 6c

Group Paging

Group No. 1 Group ID _____		
Factory-Set Ext. No. 793 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		

Group No. 2 Group ID _____		
Factory-Set Ext. No. 794 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		

Group No. 3 Group ID _____		
Factory-Set Ext. No. 795 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		

Group No. 4 Group ID _____		
Factory-Set Ext. No. 796 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		

Group No. 5 Group ID _____		
Factory-Set Ext. No. 797 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		

Group No. 6 Group ID _____		
Factory-Set Ext. No. 798 Renumber to _____		
	Ext. No.	Person or Location
1		
2		
3		
4		
5		
6		
7		
8		
9		

Group No. 7 Page All Factory Set Ext. No. 799 Renumber to _____
--

Key System Form 6e**Group Calling**

Maximum: 32 groups. (Make a copy of this form for each group.)

Group No. (1 - 32) _____ Group ID _____

Factory-Set Ext. No. _____ Renumber To _____

Stations

	Ext. No.	Person or Location		Ext. No.	Person or Location		Ext. No.	Person or Location		Ext. No.	Person or Location
1			6			11			16		
2			7			12			17		
3			8			13			18		
4			9			14			19		
5			10			15			20		

Lines

Logical ID	Line No.	Logical ID	Line No.	Logical ID	Line No.	Logical ID	Line No.
1		21		41		61	
2		22		42		62	
3		23		43		63	
4		24		44		64	
5		25		45		65	
6		26		46		66	
7		27		47		67	
8		28		48		68	
9		29		49		69	
10		30		50		70	
11		31		51		71	
12		32		52		72	
13		33		53		73	
14		34		54		74	
15		35		55		75	
16		36		56		76	
17		37		57		77	
18		38		58		78	
19		39		59		79	
20		40		60		80	

Key System Form 6e, Continued

Group No. _____

Group ID _____

Calling Group Options

Hunt Type

Circular ♦

Linear

Delay Announcement

No ♦

Extension No. _____

Message-Waiting Receiver

No ♦

Extension No. _____

Calls-in-Queue Alarm Threshold

1 call ♦

_____ calls (2 - 99)

External Alert for Calls-in-Queue Alarm

No

Extension No. _____

Overflow Coverage

No ♦

Calling Group No. _____

QCC queue

Overflow Threshold

1 call ♦

_____ calls (2 - 99)

Group Type

Auto Logout ♦

Auto Login

Integrated VMI

Generic VMI

♦ Factory Setting

Key System Form 6f

System Features

Transfer Options

Return Time Interval

- 4 rings ♦
- 0 rings
- _____ rings (1- 3, 5 - 9)

One-Touch Call Handling

- One-Touch Transfer ♦
 - Automatic Completion ♦
 - Manual Completion

- One-Touch Hold

Transfer Audible

- Music-on-Hold ♦
- Ringback

Type of Transfer

- Ring button ♦
- Voice button

Camp-On Return Time

- 90 seconds ♦
- _____ seconds (30 - 89, 91 - 300)

Call Park Return Time

- 180 seconds ♦
- _____ seconds (30 -179, 181- 300)

Automatic Callback Interval

- 3 rings ♦
- _____ rings (1- 2, 4 -6)

Extension Status

- Assign to operator positions
____ _ ____ _ ____ _ ____ _
____ _ ____ _ ____ _ ____ _
- Group Calling/CMS ♦
- Hotel

SMDR Options

Call Report Format

- Basic ♦
- ISDN

Call Length

- 40 seconds ♦
- _____ seconds (0 - 39, 41 - 55)

Calls Reported

- Incoming and outgoing ♦
- Outgoing only

Inside Dial Tone

- Inside ♦
- Outside

Reminder Service Cancel

- No
- _____ time of day

Calls to Unassigned Extensions

- Primary Operator Position ♦
- Another extension,
Ext. No. _____
- Calling Group,
Ext. No. _____

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Key System Form 7c

Night Service — Time Set

Day	Start Time*	Stop Time*
Sunday (0)		
Monday (1)		
Tuesday (2)		
Wednesday (3)		
Thursday (4)		
Friday (5)		
Saturday (6)		

* Hours and minutes in 24-hour (military) time

Key System Form 8a

Label Form — Lines

Line No.	Label (7 characters maximum)	Line No.	Label (7 characters maximum)
801		841	
802		842	
803		843	
804		844	
805		845	
806		846	
807		847	
808		848	
809		849	
810		850	
811		851	
812		852	
813		853	
814		854	
815		855	
816		856	
817		857	
818		858	
819		859	
820		860	
821		861	
822		862	
823		863	
824		864	
825		865	
826		866	
827		867	
828		868	
829		869	
830		870	
831		871	
832		872	
833		873	
834		874	
835		875	
836		876	
837		877	
838		878	
839		879	
840		880	

Key System Form 8c

Label Form — Posted Message

Message No.	Label (16 characters maximum)	Revised Standard Message
1	DO NOT DISTURB	
2	OUT TO LUNCH	
3	AT HOME	
4	OUT SICK	
5	IN A MEETING	
6	IN CONFERENCE	
7	WITH A CLIENT	
8	WITH A CUSTOMER	
9	AWAY FROM DESK	
10	OUT ALL DAY	
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

System Speed Dial and System Directory

Dial Code	Display		Telephone Number (40 digits maximum)	Labels (11 characters maximum)
	Yes	No		
#600				
#601				
#602				
#603				
#604				
#605				
#606				
#607				
#608				
#609				
#610				
#611				
#612				
#613				
#614				
#615				
#616				
#617				
#618				
#619				
#620				
#621				
#622				
#623				
#624				
#625				

Key System Form 8d, Continued

Dial Code	Display		Telephone Number (40 digits maximum)	Labels (11 characters maximum)
	Yes◆	No		
#626				
#627				
#628				
#629				
#630				
#631				
#632				
#633				
#634				
#635				
#636				
#637				
#638				
#639				
#640				
#641				
#642				
#643				
#644				
#645				
#646				
#647				
#648				
#649				
#650				
#651				

Key System Form 8d, Continued

Dial Code	Display		Telephone Number (40 digits maximum)	Labels (11 characters maximum)
	Yes ◆	No		
#652				
#653				
#654				
#655				
#656				
#657				
#658				
#659				
#660				
#661				
#662				
#663				
#664				
#665				
#666				
#667				
#668				
#669				
#670				
#671				
#672				
#673				
#674				
#675				
#676				

Key System Form 8d, Continued

Dial Code	Display		Telephone Number (40 digits maximum)	Labels (11 characters maximum)
	Yes ◆	No		
#677				
#678				
#679				
#680				
#681				
#682				
#683				
#684				
#685				
#686				
#687				
#688				
#689				
#690				
#691				
#692				
#693				
#694				
#695				
#696				
#697				
#698				
#699				
#700				
#701				
#702				

◆ Factory Setting

Key System Form 8d, Continued

Dial Code	Display		Telephone Number (40 digits maximum)	Labels (11 characters maximum)
	Yes◆	No		
#703				
#704				
#705				
#706				
#707				
#708				
#709				
#710				
#711				
#712				
#713				
#714				
#715				
#716				
#717				
#718				
#719				
#720				
#721				
#722				
#723				
#724				
#725				
#726				
#727				
#728				
#729				

◆ Factory Setting