Chapter 1

Multiline Terminal Programming

Telephone Equipment & Service

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Multiline Terminal Programming

CHAPTER 1

SECTION 1 GENERAL INFORMATION

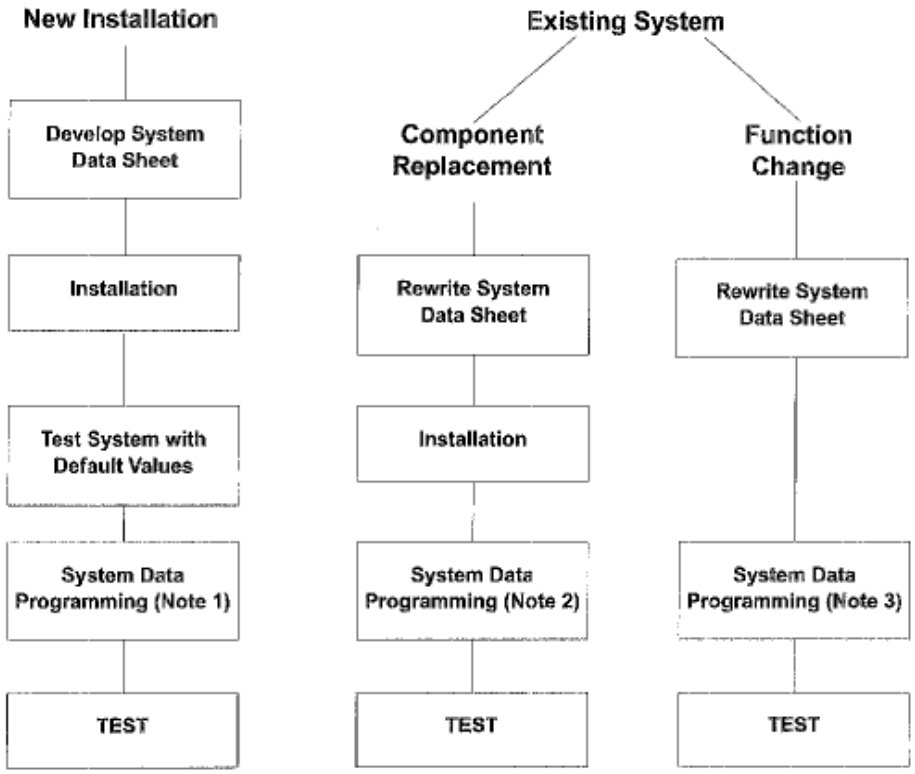
The Electra Elite 48/192 system is a stored-program controlled system. When the system is initially powered up, the CPU scans each possible interface slot to determine the hardware configuration. The system stores this information and the default values in the resident system program memory. After initially powering up the system, a trained technician can change the resident system program to meet the specific needs of an individual customer.

SECTION 2 PROGRAMMING THE SYSTEM

The battery on the CPU ***must be connected.*** *If the battery is not connected before the programming begins, data may be lost if a power outage occurs.*

System data programming may be necessary when:

- the system is installed for the first time.
- components of an existing system are replaced.
- functions of an existing system are changed.



Note 1: For a new installation, system default values are assigned when the power is turned on. Program the system data to be changed only.

Note 2: For component replacement, program the relevant system data.

Note 3: For function change, program the system data to be revised.

Figure 1-1 Programming Flowchart

2.1 Features of Programming

The following features are provided with Multiline Programming:

- The system operates from default after initial power-up. Only the parameters that change must be programmed.
- System programming characters are displayed on the LCD of the Multiline Terminal.
- Several types of system programming can be entered at the same time.
- Data programmed for one telephone (e.g., Tenant Mode, or Telephone Mode) can be copied to another telephone.

✆ Two Multiline Terminals, connected to port 01 or port 02, respectively, can be used simultaneously for programming.

2.2 System Programming Modes

Modes and submodes are listed in Table 1-1 Programming Modes.

Table 1-1 Programming Modes

Line Key	Mode Name	Line Key	Submode Name
LK 1	System Mode	LK 1	CO Line
		LK 2	ICM
		LK 3	SLT
		LK 4	Transfer/Automated Attendant
		LK 5	SMDR/LCR
		LK 6	DSS
		LK 7	ESP
		LK 8	PBR/Miscellaneous
		LK 9	DISA
		LK 10	Call by Call
		LK 11	DTI
		LK 12	ACD/UCD
		LK 13	PRI
		LK 14	ARS
LK 2	Tenant Mode	N/A	N/A
LK 3	CO/PBX Line Mode	N/A	N/A
LK 4	Telephone Mode	N/A	N/A
LK 5	Trunk Group Mode	N/A	N/A
LK 6	Copy Mode	LK 2	Tenant Mode Copy Assignment
		LK 3	CO Line Mode Copy Assignment
		LK 4	Telephone Mode Copy Assignment
		LK 5	Trunk Group Mode Copy Assignment
LK 7	ETU Mode	LK 1	Card Interface Slot Assignment
		LK 2	Telephone Type Assignment
		LK 3	MIF Assignment
LK 8	Special Mode	LK 1	ROM Version Confirmation
		LK 2	System Speed Dial Memory Clear
		LK 3	Station Speed Dial Memory Clear
		LK 8-8800	Second Initialization

2.3 Before Programming

The technician should check the ROM version and the port numbers before programming the system.

2.3.1 Check Points

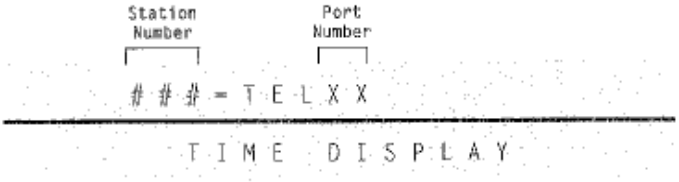
✆ Confirm the ROM Version

The features that are available depend on the ROM version. Refer to Memory Block 8-1 (ROM Version Confirmation), or from any idle Display Terminal, press (Feature) and (3).

✆ Confirm the Port Number

Port numbers are used for system programming. Refer to Memory Block 7-1 (Card Interface Slot Assignment).

To confirm station numbers press (Feature) and (4). The display indicates the station number and the port number.



2.3.2 Preliminary Points

✆ Select System Programming

Refer to Section 2 Programming the System.

2.4 Writing System Data

After turning on the system, system data can be programmed using a Multiline Terminal that is connected to port 01 or port 02 (the Multiline Terminal must be idle). System programming can be performed while other Multiline Terminals in the system are in use. Some data is written into memory immediately after the programming process, but other data is not written until the stations or trunks are idle. When the data is not written until a station or trunk is idle, the station LCD displays DATA ENTRY even after the programming process is completed. This indicates that system data entry is still in progress. When the in-use stations become idle, the data is written and the station LCD displays only the time.

The data programmed for the following Memory Blocks is not written while the Multiline Terminals or PBR are in use:

✆ When Multiline Terminals are in use:

- Memory Block 2-01 (Trunk to Tenant Assignment)
- Memory Block 2-05 (Line Key Selection)
- Memory Block 2-07 (System Speed Dial Display Assignment)
- Memory Block 4-09 (Telephone to Tenant Assignment)

✆ When the PBR is in use:

- Memory Block 1-8-01 (SLT or Automated Attendant/DISA to CPU PBR Selection)
- Memory Block 1-8-02 (PBR Receive Level Assignment for Automated Attendant/DISA)

2.5 Programming Methods

2.5.1 Initializing the System

Turn on the new Key Service Unit (KSU) power supply. After approximately 30 seconds, the system operates with the system default values.

2.5.2 Using the Multiline Terminal for Programming

System programming can be performed using a Display Multiline Terminal that is connected to station port 01 or 02.

Figure 1-2 Electra Elite Multiline Terminal shows the terminal in the off-line mode.

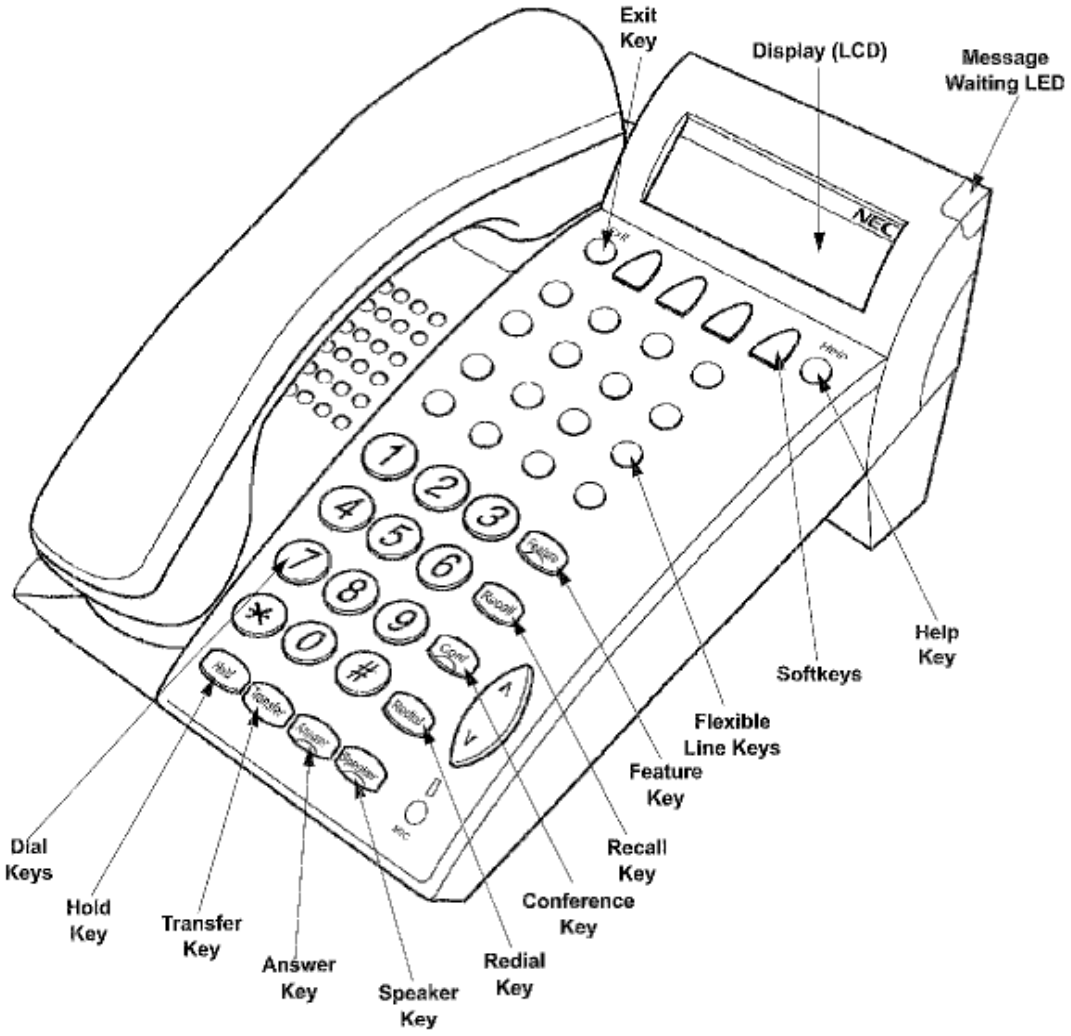


Figure 1-2 Electra Elite Multiline Terminal

Table 1-2 Multiline Terminal Keys Used for Programming provides a list and description of the keys used during Multiline Terminal Programming.

Table 1-2 Multiline Terminal Keys Used for Programming

Key	Description
0 ~ 9	Used to enter data from the dial pad or to specify a Memory Block location.
*	Used to move the cursor to the left. The cursor moves one character space to the left each time * is pressed.
#	Used to move the cursor to the right. The cursor moves one character space to the right each time # is pressed.
Answer	Used to select another mode. Press Answer to switch modes as follows: • Mode or submode selection: Returns to Program Mode. • Data No. Mode: Return to a mode or submode selection, or Program Mode (if no submode exists).
Conf	Each time the conference key is pressed, Memory Block item changes are as follows: • Tenant Mode: The tenant number increments by one. • CO/PBX Line Mode: The CO/PBX line number increments by one. • Telephone Mode: The telephone port number increments by one. • Trunk Group Mode: The Trunk group number increments by one.
Exit	Future use.
Feature	Used to return to the **previous** page in system programming.
Help	Future use.
Hold	Used to enter a pause in speed dial programming mode or to clear data in system programming mode.
Linekey	Flexible Line keys are used to specify a mode or submode when selecting a Memory Block or to select programming data for input.
Recall	Used to proceed to the **next** page in system programming.
Redial	This key is used to enter a pause, hyphen, asterisk or pound. To enter an asterisk or pound: Redial + * = * Redial + # = # The Message Waiting LED turns on and off after * or # is pressed.

Table 1-2 Multiline Terminal Keys Used for Programming (Continued)

Key	Description
Speaker	Used to exit the programming mode (go back on-line).
Transfer	Used to write (save) data. After entering data, press Transfer ; the data is written into memory. The next Memory Block is displayed.

2.5.3 Entering Programming Mode

The following digital Multiline Terminals can be used to program the system. Two stations, ports 01 and 02, are automatically assigned as programming stations.

- DTP-8D-1 (BK)/(WH) TEL
- DTU-8D-2 (BK)/(WH) TEL
- DTP-16D-1 (BK)/(WH) TEL
- DTU-16D-2 (BK)/(WH) TEL
- DTP-32D-1 (BK)/(WH)TEL
- DTU-32D-2 (BK)/(WH) TEL
- ETW-16DC-1/2 (BK)/(SW) TEL
- ETW-16DD-1/2 (BK)/(SW) TEL
- ETW-24DS-1/2 (BK)/(SW) TEL

To enter programming mode, the station must be idle (on-hook). Perform the following procedure to go off-line.

1. Press Feature .
2. Press Hold .
3. Dial #, 4, and * in sequence. The Multiline Terminal LCD indicates program mode is now active.

```
PROGRAM MODE
TIME DISPLAY
```

While off-line, the programming terminal cannot be signaled by any system station. Off-line mode does not timeout.

2.5.4 Page Switching

In Memory Block 1-1-18 (System Speed Dial Restriction by Tenant) tenant numbers 00~07 are assigned to Flexible Line keys on the first page. Tenant number 08~15 are assigned to the Flexible Line keys on the second page. The tenant number corresponding to Flexible Line key 1 of the current page is displayed on the right side of the display.

During system programming, a value (data) is assigned to each Flexible Line key. When there are more values than Flexible Line keys, value assignments are displayed on additional pages. The associated data can be entered on that page. The page number is displayed at the right side of the LCD.

Figure 1-3 Page Display for 8-Key, 16-Key and 24-Key Multiline Terminals shows an example of CO/PBX line keys on each page and their corresponding tenant numbers. In all cases, each page is represented by eight line keys.

To navigate between pages, press (Recall) to access the ***next*** page, or press (Feature) to return to the ***previous*** page.

8-Key Multiline Terminal

(Page 1)

LK 1	LK 2	LK 3	LK 4
01	0 2	03	04
LK 5	LK 6	LK 7	LK 8
05	06	07	08

LCD Display:
01 to indicate Page 1

8-Key Multiline Terminal

(Page 2)

LK 1	LK 2	LK 3	LK 4
09	10	11	12
LK 5	LK 6	LK 7	LK 8
13	14	15	16

LCD Display:
09 to indicate Page 2

16-Key Multiline Terminal

(Page 1)

LK 1	LK 2	LK 3	LK 4
01	02	03	04
LK 5	LK 6	LK 7	LK 8
05	06	07	08
LK 9	LK 10	LK 11	LK 12
09	10	11	12
LK 13	LK 14	LK 15	LK 16
13	14	15	16

LCD Display:
01 to indicate Page 1

(Page 2)

LK 1	LK 2	LK 3	LK 4
09	10	11	12
LK 5	LK 6	LK 7	LK 8
13	14	15	16
LK 9	LK 10	LK 11	LK 12
17	18	19	20
LK 13	LK 14	LK 15	LK 16
21	22	23	24

LCD Display:
09 to indicate Page 2

24-Key Multiline Terminal

(Page 1)

LK 1	LK 2	LK 3	LK 4	LK5	LK6
01	02	03	04	05	06
LK 7	LK 8	LK 9	LK 10	LK 11	LK 12
07	08	09	10	11	12
LK 13	LK 14	LK 15	LK 16	LK 17	LK 18
13	14	15	16	17	18
LK 19	LK 20	LK 21	LK 22	LK 23	LK 24
19	20	21	22	23	24

LCD Display:
01 to indicate Page 1

(Page 2)

LK 1	LK 2	LK 3	LK 4	LK5	LK6
09	10	11	12	13	14
LK 9	LK 8	LK 9	LK 10	LK 11	LK 12
15	16	17	18	19	20
LK 13	LK 14	LK 15	LK 16	LK 17	LK 18
21	22	23	24	25	26
LK 19	LK 20	LK 21	LK 22	LK 23	LK 24
27	28	29	30	31	32

LCD Display:
09 to indicate Page 2

Figure 1-3 Page Display for 8-Key, 16-Key and 24-Key Multiline Terminals

Figure 1-4 Page Switching for Data Values shows an example of 10 data values. Values are displayed on two pages.

16-Key Multiline Terminal

(Page 1)

LK 1	LK 2	LK 3	LK 4
Data 01	Data 02	Data 03	Data 04
LK 5	LK 6	LK 7	LK 8
Data 05	Data 06	Data 07	Data 08

LCD Display:
01 to indicate Page 1

(Page 2)

LK 9	LK 10	LK 11	LK 12
Data 09	Data 10		
LK 13	LK 14	LK 15	LK 16

LCD Display:
09 to indicate Page 2

Figure 1-4 Page Switching for Data Values

2.5.5 Station Port Numbering Plan

Some memory blocks require entering a 2-digit port number. The Electra Elite 48/192 system supports 32/120 ports. Programming values for entry of Port Assignments are defined below:

Port Assignments	Programming Value
01~99	01~99
100~109	A0~A9
110~119	B0~B9
120	C0

To enter an A, B, or C, press (Redial) and 1, 2, or 3.

SECTION 3
SYSTEM DATA LIST

The following table provides a complete list of Memory Blocks that are available in the Electra Elite system. The information is organized by mode, submode, and then numerically by Memory Block number. The Memory Block number and name, the default values, and programming values are provided for each Memory Block.

Table 1-3 System Data

LK 1 System Mode

LK 1 CO Line

Data No.	Memory Block Name	Default Value	Programming Values
00	Pause Time Selection	3.0s	1.0s, 3.0s
01	DP Interdigit Time Selection	B	Pattern A or B
02	Hookflash Time Selection	600ms	20ms, 40ms, 60ms, 80ms, 100ms, 140ms, 160ms, 200ms 400ms, 600ms, 800ms, 1.0s, 1.5s, 2.0s, 3.0s, 5.0s
03	Hold Recall Time Selection (Non-Exclusive Hold)	25s	25s, 45s, 60s, 90s, 120s, 180s, 240s, ∞(No Limit)
04	Automatic Redial Time Selection	Table 1: 030 Table 2: 060 Table 3: 002	Table 1: 001 ~ 050 sec. Table 2: 001 ~ 100 sec. Table 3: 001 ~ 015 times
05	Start Time Selection	10s	2s, 10s, 20s, 30s, 40s, 50s, 60s, 70s
06	CO/PBX Incoming Ringing Alarm Time Selection	∞ (No Limit)	10s, 20s, 30s, ∞
07	Tie Line Delay Ringing Time Selection	∞ (No Limit)	10s, 20s, 30s, ∞
09	Manual Pause Selection	NO	NO, YS
11	System Transfer/Camp-On Selection	YS	NO, YS
12	Station Transfer/Camp-On Recall Time Selection	45s	25s, 45s, 60s, 90s, 120s, 180s, 240s, ∞ (No Limit)
13	CO Transfer Ring Pattern Selection	C	OFF, ON, A ~ H
14	CO Transfer Ring Tone Selection	A	A ~ H
18	System Speed Dial Restriction by Tenant	CO/PBX Line LED On	LED On: Not Restricted LED Off: Restricted
20	DID Digit Length Selection	3	2, 3, or 4
21	DID Digit Conversion Assignment	NO	NO, YS

LK 1 System Mode

LK 1 CO Line (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
22	DID Digit Conversion Table	T	T (Station or Closed Number) TN (Tenant)
23	DID Forward Station Number for Busy Station or Undefined Digit	NON	NON, T (TEL), TN (Tenant)
24	PBX/CTX Access Code Assignment I	9–	Up to six digits (three numeric, three pauses)
25	PBX/CTX Access Code Assignment II	8–	Up to six digits (three numeric, three pauses)
27	Automatic Day/Night Mode Switching Time Assignment	Not Specified	Day/Night Mode Time (24-hour clock)
28	Distinctive Ringing by Telephone or CO Selection	TEL	TEL, CO
29	Private Line Assignment	Not Specified	CO/PBX Line Number, Tel Port Number
30	Route Advance Block Assignment	All Blocks 00 (Not Set)	Priority of Trunk Group Number
32	Automatic Day/Night Mode by Day of Week Selection	CO/PBX Line LED Off Pattern 1 (Sunday ~ Saturday)	Pattern 1, Pattern 2
33	Speed Dial Number/Name Display Selection	DIAL	DIAL, NAME
34	Tie Line First Ring Pattern Selection	PAT3	PAT1, PAT2, PAT3, PAT4, ICM, VOICE
35	Speed Dial Buffer Allocation	100	100, 1,000 Memories
37	Trunk Queuing Timeout Selection	10s	10s, 20s, 30s, 60s.
46	Access Code (1-Digit) Assignment	Refer to Access Code (1-Digit) Assignment on page 1-78.	
47	Access Code (2-Digit) Assignment	Refer to Access Code (1-Digit) Assignment on page 1-78.	
48	Access Code (3-Digit) Assignment	All Dial 000 (Not Used)	N/A
49	Networking Trunk Group/Route Advance Assignment	Not Specified	101~132 (Trunk Group 01 ~ 32) or 201~216 (Route Advance Block 01 ~ 16)
50	CO/PBX Outgoing Digit Add Assignment	Not Specified	10 digits max.
51	CO Line Ringing Pattern Selection	A	A ~ H, NO
52	PBX Line Ringing Pattern Selection	B	A ~ H, NO
53	Tie Line Delay Ring Pattern Selection	D	A ~ H, NO

LK 1 System Mode

LK 1 CO Line (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
54	Automated Attendant Transfer Ring Pattern	C	A ~ H, NO
55	DID Line Ringing Pattern Selection	A	A ~ H, NO
57	CO/PBX Prepause Time Selection	1s	None, 1s~13s
59	Synchronous Ringing Selection	YS	YS, NO
60	8-Digit Matching Table Assignment	Refer to 8-Digit Matching Table Assignment on page 1-100.	
61	8-Digit Matching Table to Class Assignment	Refer to 8-Digit Matching Table to Class Assignment on page 1-102.	
62	System Speed Dial Override by Class Selection	YS	NO = No Override YS = Override
63	Hold Recall Time Selection (Exclusive)	1.0	In minutes: 0.5, 1.0, 1.5, 2.0, 3.0, 5.0, 8.0, ∞ (No Limit)
64	Attendant Add-On Console Transfer/ Camp-On Recall Time Selection	1.0	In minutes: 0.5, 1.0, 1.5, 2.0, 3.0, 5.0, 8.0, 10.0
65	Code Restriction Class Allow/Deny Selection	Class 01 ~ 04 – YS Class 05 ~ 14 – NO	YS (Allow) NO (Deny)
66	8-Digit Matching Table to Normal Dial Assignment	Tables 00 ~ 14 = Used (All CO/PBX Line LEDs On) Table 15 = Unused (CO/PBX Line LED Off)	N/A
67	OCC Table Assignment	Tables 00 ~ 15 = Blank Table 16 = 1010XXX	N/A
68	8-Digit Matching Table to OCC Table Assignment	CO/PBX Line LED Off	Refer to 8-Digit Matching Table to OCC Table Assignment on page 1-112.
69	Tie Line Code Restriction Assignment	YS	NO = No Restriction YS = Restriction
70	Code Restriction Class Assignment when Lockout is set	15	Class 00 ~ 15
71	First Delay Announcement Start Time Selection	20	In seconds: 00, 10, 20, 30, 40, 50, 60
72	First Delay Announcement Repeat Selection	1	1, 2, 3, 4, 5, 6, 7, 8
73	First to Second Delay Announcement Interval Time Selection	20	In seconds: 00, 10, 20, 30, 40, 50, 60, ∞ (No Limit)

LK 1 System Mode

LK 1 CO Line (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
74	Second Delay Announcement Repeat Selection	1	1~ 8
75	Second Delay Announcement Repeat Interval Time Selection	20	In seconds: 00, 10, 20, 30, 40, 50, 60, ∞ (No Limit)
76	Barge-In Alert Tone Assignment	YS	YS = Send Alert Tone NO = Do not send Alert Tone
77	Delayed Ringing Time Assignment (CO)	15s	00 ~ 99 sec.
78	Caller ID Display Assignment for System Mode	Not Specified	Up to 15 ports Tel Port No. = 01~CO
79	BGM Port Assignment	00	00 (Not Specified), 01~ 64
80	ISDN DTMF Duration/Interdigit Selection	100/70	In milliseconds: 70/60, 100/70, 400/100, 600/100, 900/200
81	ISDN Dial Interval Timer Selection	4s	2s, 4s, 8s, 16s, 32s
82	CO Feature Code Service for Code Restriction	Not Specified	10 tables each with up to 10 digits

LK 1 System Mode

LK 2 ICM

Data No.	Memory Block Name	Default Value	Programming Values
00	Internal Paging Timeout Selection	90s	90s, 120s, ∞ (No Limit)
01	Intercom Call Voice/Tone Signal Selection	VOICE	TONE VOICE
02	Automatic Callback Release Time Selection	30m	30s, 1m, 3m, 5m, 10m, 20m, 30m.
03	2-, 3-, or 4-Digit Station Number Selection	3DGT	2DGT, 3DGT, 4DGT
04	Call Arrival Key Block Assignment	No CAR Blocks are Assigned	CAR Blocks: Port 01~120 - 4 ports per block
08	Specified Station Access Code Assignment	00 = 01 01 ~ 23 Not Set	Tel. Port Number
09~18	Customized Message 1~10 Assignment	09 = DND 10 = MEETING 11 = BUSINESS TRIP 12 = NOT IN 13 = WITH GUEST 14 = OUT OF OFFICE 15~18 = Not Specified	Maximum of 13 characters. (Refer to Section 9 Character Assignment on page 1-536 for a list of characters.)
19	Intercom Ring Pattern Selection	B	OFF, ON, A~H
20	Intercom Ring Tone Selection	A	A~H
22	Call Forward No Answer Time Selection	8s	4s, 8s, 12s, 18s, 24s, 30s, 60s
23	System Call Park Recall Time Selection	1.0	In minutes: 0.5, 1.0, 1.5, 2.0, 3.0, 5.0, 8.0, 10.0
24	Intercom Feature Access Code Assignment	Refer to Intercom Feature Access Code Assignment on page 1-141.	
25	Internal Paging Alert Tone Selection	YS	YS (Tone provided) NO (No Tone)
26	Delayed Ringing Time Assignment (ICM)	10s	00~99 sec.

LK 1 System Mode

LK 3 SLT

Data No.	Memory Block Name	Default Value	Programming Values
01	Bounce Protect Time Selection	300ms	Page 1: 0ms, 100ms, 200ms, 300ms, 400ms, 500ms, 600ms, 700ms Page 2: 800ms, 900ms, 1000ms, 1100ms, 1200ms, 1300ms, 1400ms, 1500ms
02	SLT Hookflash Signal Selection	HOLD	HOLD FLASH
03	First Digit PBR Release Time Selection	10s	10s, 20s, 30s, 40s, 50s, 60s.
04	Dial 1 (DP) Hookflash Selection	YS	YS, NO
05	Hookflash Start Time Selection	290	In milliseconds: 40, 90, 140, 190, 240, 290, 340, 390, 440, 490, 540, 590, 640, 690, 740, 790
06	Hookflash End Time Selection	07 (HST + 700 ms.)	Refer to Hookflash End Time Selection on page 1-150.
07	Voice Mail Digit Add Assignment	Blank	Up to 4 digits
08	Voice Mail DTMF Delay Time Selection	1s	0s, 1s, 2s, 3s, 4s, 5s, 6s, 8s
09	Voice Mail Disconnect Time Selection	1.5s	0.5s, 1.0s, 1.5s, 2.0s, 3.0s, 3.5s
10	Voice Mail DTMF Duration/Interdigit Time Selection	110/80	In milliseconds: 60/70, 110/80, 410/100, 610/100, 810/190

LK 1 System Mode

LK 4 Transfer/Automated Attendant (A.A.)

Data No.	Memory Block Name	Default Value	Programming Values
00	Tandem Transfer Automatic Disconnect Time Selection	060	In minutes: 000~999
01	Automated Attendant First Digit PBR Release Time Selection	20s	5s, 10s, 20s, 30s, 40s, 50s, 60s
02	Automated Attendant Transfer Delayed Ringing Time Selection	∞	In seconds: 10, 20, 30, ∞ (No Limit)
03	Automated Attendant No Answer Disconnect Time Selection	2m	1m, 2m, 3m, 4m
04	Tandem Transfer SMDR Print Extension Assignment	999	2-digit = 00 ~99 3-digit = 000 ~999 4-digit = 0000 ~9999
05	Automatic Tandem Trunk by Night Mode Selection	NO	YS, NO
08	Automated Attendant PBR Timeout Response Selection	NORMAL	NORMAL, RELEAS
09	Automated Attendant PBR Start Time Selection	FR	FR = Same Time as Greeting AF = After Greeting
11	Automated Attendant Message Day/ Night Mode Selection	NO	YS, NO
12	Automated Attendant Message to Tenant Assignment	00	Tenant Number 00 to 47
13	Automated Attendant Answer Delay Time Assignment	04s	00~99s, per MSG 1~8
14	Automated Attendant Message Access Code (1-Digit) Assignment	Refer to Automated Attendant Message Access Code (1-Digit) Assignment on page 1-167.	
15	Automated Attendant Message Access Code (2-Digit) Assignment	Refer to Automated Attendant Message Access Code (1-Digit) Assignment on page 1-167.	
16	Automated Attendant Message Repeat Selection	1 All messages	1, 2, 3, 4, 5, 6, 7, 8
17	Automated Attendant Delay Announcement Hold Tone Selection	RBT	RBT, MOH
18	Automated Attendant Delay Announcement Assignment	NONE (Not specified)	None, MSG1, MSG2, MSG3, MSG4, MSG5, MSG6, MSG7, MSG8
19	Automated Attendant 1st to 2nd Delay Announcement Interval Time Selection	4m	0s, 10s, 20s, 30s, 1m, 2m, 3m, 4m, 5m, 10 m, 20m.

LK 1 System Mode

LK 4 Transfer/Automated Attendant (A.A.) (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
20	Automated Attendant Delay Announcement Disconnect Time Selection	30s	0s, 10s, 20s, 30s, 1m, 2m, 3m, 4m, 5m, 10m, 20m

LK 1 System Mode

LK 5 SMDR/LCR

Data No.	Memory Block Name	Default Value	Programming Values
02	SMDR Print Format	ALL	ALL, MSK
13	Printer Connected Selection	NO	NO, YS
14	Printer Line Feed Control Selection	YS	YS, NO
25	SMDR Valid Call Time Assignment	040s	000~990s (in 10-second increments)
26	SMDR Incoming/Outgoing Print Selection	OUT	ALL, OUT, INC

LK 1 System Mode

LK 6 DSS

Data No.	Memory Block Name	Default Value	Programming Values
01	Attendant Add-On Console to Telephone Port Assignment	Refer to Attendant Add-On Console to Telephone Port Assignment on page 1-183.	
03	DSS Call Voice/Tone Signal Selection	VOICE	TONE, VOICE
05	Attendant Add-On Console Key Selection	Refer to Attendant Add-On Console Key Selection on page 1-185	
07	Message Board Lamp Assignment	NON	NON (Not assigned) MSG (message)
08	Attendant Transfer Selection During Live Record	YS	NO, YS

LK 1 System Mode

LK 7 ESP

Data No.	Memory Block Name	Default Value	Programming Values
00	Doorphone Assignment	No default	LK1~LK4 Assigns DPH1~DPH4 Yes or No
01	Doorphone Display Time Selection	10s	10s, 30s, 60s, 90s
02	External Speaker Connection Selection	All Speakers (A~C) On	ESP A, ESP B, ESP C
03	External Paging Alert Tone Selection	YS	YS, NO
04	Doorphone Ringing Pattern Selection	DPH1~4 ON	OFF, ON, A~H
05	Doorphone Ringing Frequency Selection	C	A~H
06	External Paging Timeout Selection	5.0	In minutes: 0.5, 1.0, 1.5, 2.0, 3.0, 5.0, 8.0, ∞ (No Limit)
07	External Ring Relay Pattern Selection	PT3	Refer to External Ring Relay Pattern Selection on page 1-200.
08	External Speaker Chime Selection	PRT	PRT (Normal paging tone before Page) C-S (Chime Start Only) C-B (Chime Start/End)
09	External Speaker Chime Start Time Selection	700	In milliseconds:000, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500

LK 1 System Mode

LK 8 PBR/Miscellaneous

Data No.	Memory Block Name	Default Value	Programming Values
01	SLT or Automated Attendant/DISA to CPU PBR Selection	LK1 and LK2 Off	Off = Single Line Telephone On = Automated Attendant/DISA
02	PBR Receive Level Assignment for Automated Attendant/DISA	03 (–36.0 dBm)	Refer to PBR Receive Level Assignment for Automated Attendant/DISA on page 1-207.
04	Time Display (12h/24h) Selection	12	12, 24
07	Class of Service (Attendant) Feature Selection 1	Refer to Class of Service (Attendant) Feature Selection 1 on page 1-210.	
08	Class of Service (Station) Feature Selection 2	Refer to Class of Service (Station) Feature Selection 2 on page 1-213.	

LK 1 System Mode

LK 8 PBR/Miscellaneous (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
09	Music on Hold Pattern Selection	A	Medley A or B
10	PBR Interdigit Release Time Selection	7s	3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s
11	System Refresh Time Assignment	4H	NON, 4H, 8H, 12H, 24H
12	VRS Message Recording Time Selection	15s x16	Time and number of messages: 15s x16 30s x 8 60s x 4 120s x 2
13	VRS Message Function Assignment	Refer to VRS Message Function Assignment on page 1-224	
15	Tone Assignment	A	Refer to Tone Assignment on page 1-226.
16	Voice Prompt to Tone Assignment	PR1 Refer to Voice Prompt to Tone Assignment on page 1-229.	
17	PC Programming Password Assignment	Class 1, 2 All Blank	N/A
18	Site Name Assignment	Not Assigned	N/A
25	ACD/UCD Group Agent Assignment	Not Specified	Agent Station Number and ACD/UCD Group Number
26	Voice Mail Quick Transfer Master Hunt Number	000	Voice Mail Pilot Number
27	Forced Account Code Length Assignment	10DGT	1~13 Digits
29	SCD (Simplified Call Distribution) Pilot Number Assignment	Not Assigned	Pilot Number for up to 4 Groups
30	SCD Group Agent Assignment	Not Assigned	1~4 Digits
31	Hold Tone Source Assignment	INT	INT, EXT
32	Hold Internal Tone Volume Selection	0dB	0dB, -6dB
33	Master Clock Selection	0: Not Assigned	Cabinet: 0~2 Slot: 1~4
35	COM Port Baud Rate Setting Assignment	COM 1 = 38.4 COM 2 = 4.8 COM 3 = 4.8 (Not used) COM 4 = 9.6	4.8 Kbps, 9.6 Kbps, 19.2 Kbps, 38.4 Kbps
36	COM Port Parity/Stop Bit Setting Assignment	NON/1	NON/1, NON/2, EVEN/1, ODD/1
37	General Purpose Relay Assignment	NO	NO, YS

LK 1 System Mode

LK 8 PBR/Miscellaneous (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
38	Modem Number for Remote Programming Assignment	Not Assigned	Any Unused Extension Number (1~4 digits)
40	ACD Hunt Time	10s	10s, 20s, 30s, 60s, 120s, 240s, ∞ (No Limit).
43	Enhanced 911 Trunk Assignment	Not Specified	CO/PBX trunks 01~64
44	Enhanced 911 Alternate Route Assignment	No Alternate Route	No Alternate Route 101~132 for trunk group 01~32 201~216 for route advance block 01~16
45	Enhanced 911 Alternate Route Assignment (Maintenance Busy)	101	No Alternate Route 101~132 for trunk group 01~32 201~216 for route advance block 01~16
46	Enhanced 911 Dialing Digit Assignment	911	1, 11, 911

LK 1 System Mode

LK 9 DISA

Data No.	Memory Block Name	Default Value	Programming Values
00	DISA ID Code Assignment	100	Refer to DISA ID Code Assignment on page 1-251.
02	DISA Password Effect/Invalid Selection	YS	NO (Invalid), YS (Password effects)

LK 1 System Mode

LK 10 Call by Call

Data No.	Memory Block Name	Default Value	Programming Values
00	Call by Call Type of Network ID Assignment	All RABs 2	0,1(Not Used), 2 (National Network Identification), 3~7 (Not Used)
01	Call by Call Network ID Plan Assignment	All RABs 01	00 (Not Used), 01 (Interexchange Carrier Code), 02~15 (Not Used)

LK 1 System Mode

LK 10 Call by Call (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
02	Call by Call Type of Number Assignment	All RABs 0	0 (unknown), 1 (International), 2 (National), 3 (Network Specific), 4 (Subscriber or Local), 5~7 (Not Used)
03	Call by Call Numbering Plan ID Assignment	All RABs 00	00 (unknown), 01 (ISDN/Telephony Numbering Plan), 02 (Not Used), 3 (future Data Numbering Plan), 04~08 (Not Used), 09 (private Numbering Plan), 10~15 (Not Used)
04	Call by Call Network ID Assignment	All RABs Unspecified	Three or four digit Call by Call Network ID
05	Call by Call Facility Coding Value Assignment (Service)	All RABs 00	00 (Non.CBC RAB, None), 01 (5ESS SDN), 02 (5ESS MEGACOMBO800), 03 (5ESS MEGACOM), 06 (5ESS ACCUNET),08 (5ESS International 800), 16 (5ESS AT&T MultiQuest 900 Service), 17 (NI-2 INWATS),18 (NI-2 OUTWATS), 19 (NI-2 FX), 20 (NI-2 Tie Trunk), 01 (DMS100 Private). 02 (DMS100 INWATS),03 (DMS100 OUTWATS), 04 (DMS100 FX), 05 (DMS100 Tie Trunk)
06	Call by Call Facility Coding Value Assignment (Feature)	All RABs 00	00 (Non.CBC RAB,None),05 (5ESS Local Exchange), 06 (5ESS default-Common Carrier)
07	Call by Call Service Parameter Assignment	All RABs 0 - 000	0 (0 or 1) - 000 (000~127)
08	Call by Call Max Digit Assignment	All RABs 00	00 (Don't Send Delimiter)~24
09	Call by Call Simulated Facility Group Assignment	All RABs 00	00 (None)~16
20	Call by Call Outgoing SFG Assignment	99	01~16 For Electra Elite 48 (Default 16), 01~64 For Electra Elite 192(Default 64), 99 Default for all SFGs
21	Call by Call Outgoing/Incoming SFG Assignment	99	01~16 For Electra Elite 48 (Default 16), 01~64 For Electra Elite 192(Default 64), 99 Default for all SFGs
22	Call by Call Incoming Type Selection	DID	CO, DID

LK 1 System Mode

LK 11 DTI

Data No.	Memory Block Name	Default Value	Programming Values
00	Signal Format Selection	24	12 (Superframe, 24(Extended Superframe)
01	Clear Channel Selection	ZCS	ZCS, B8ZS
02	Line Length Selection	1	Refer to Line Length Selection on page 1-281.
05	T1 Channel Selection	Refer to T1 Channel Selection on page 1-283.	
06	Signaling Selection	LS	LS, GS
07	DTI Trunk Type Assignment	CO	CO, E&M, DID, ANI

LK 1 System Mode

LK 12 ACD/UCD

Data No.	Memory Block Name	Default Value	Programming Values
00	ACD/UCD Group Pilot Number Assignment	Not Specified	Any Unused Extension Number
01	ACD/UCD Group Overflow Destination Assignment	Not Specified	Any Unused Extension Number
02	ACD/UCD Overflow Time Selection	60	In seconds: ∞, 10s, 20s, 30s, 60s,120s, 180s, 240s

LK 1 System Mode

LK 13 PRT

Data No.	Memory Block Name	Default Value	Programming Values
00	PRT Channel Assignment	23	0, 4, 8, 12, 16, 20, 24
01	Signal Format Selection	24	12 (SF), 24 (ESF)
02	Clear Channel Selection	ZCS	ZCS, B8ZS
03	Call by Call Service Selection	NO	YES, NO

LK 1 System Mode

LK 14 Automatic Route Selection

Data No.	Memory Block Name	Default Value	Programming Values
00	ARS Allow/Deny Selection	NO	YS (Allow), NO (Deny)
01	ARS Dialing Assignment	None	Table No. 1~4 Dial No. 01~C8 Setting Data (8 digit Max) including 0~9, *, #, X (0~9, *, #), P (0 or 1), or N (2~9)
02	ARS Dial Allow/Deny Selection	YES	YES (Allow), NO (Deny)
03	ARS Route Table Number Assignment	00	Table No. 1~4 Dial No. 01~C8 Routes 01~32
04	ARS Trunk Group to Route Number Assignment	NORMAL	NORMAL, TKGP 01~32, RAB 01~16
05	ARS Digit Delete Assignment	00	00~10 Digits
06	ARS Digit Add Assignment	Not specified	Up to 10 digits using 0~9, *, #

LK 2 Tenant Mode

Data No.	Memory Block Name	Default Value	Programming Values
01	Trunk to Tenant Assignment	Refer to Trunk to Tenant Assignment on page 1-313.	
05	Line Key Selection	TEL	TEL (Telephone Mode) TNAT (Tenant-Wide Mode)
06	Line Key Selection for Tenant Mode	CO	Refer to Line Key Selection for Tenant Mode on page 1-316.
07	System Speed Dial Display Assignment	CO/PBX Line LED On All Speed Dial Confirmation Allowed	On (Assigned) Off (Not Assigned)
08	ECR Relay to Tenant Assignment	All Tenants - No Assignment	N/A

LK 3 CO/PBX Line Mode

Data No.	Memory Block Name	Default Value	Programming Values
00	Trunk Name/Number Assignment	Not Specified	Maximum of 13 digits (numbers, hyphens, and spaces)
02	Trunk Status Selection	OUT&IN	OUT&IN, IN
03	Trunk-to-Trunk Group Assignment	Refer to Trunk-to-Trunk Group Assignment on page 1-325.	
04	Trunk-to-Trunk Transfer Yes/No Selection	NO	NO, YES
05	Trunk Incoming Answer Mode Selection	NO ASSIGN	NO ASSIGN, TANDM TRF, AA
06	Automatic Tandem Trunk Assignment	Not Specified	CO 01~64
07	CO/PBX Ringing Variation Selection	M	M, L, H
11	CO External Source Selection	CO	CO, EXT
12	CO Hold Memory Selection	00	01~64 CO/PBX
14	Tie Line Type Assignment	2ND DIAL	2ND DIAL, IMMEDIATE, DELAY, WINK
15	Trunk DTMF Duration/Interdigit Selection	110 /80	Duration / Interdigit Time In milliseconds: 60/70, 60/80, 110/80, 160/80, 210/80, 410/100, 610/100, 810/190.
16	Tie Line Prepause Time Selection	0	In seconds: 0, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0,13.0
17	Tie Line Answer Detect Time Selection	520	In milliseconds: 0, 130, 260, 390, 520, 650, 780, 910, 1040, 1170, 1300, 1430, 1560, 1690, 1820, 1950
18	Tie Line Release Detect Time Selection	520	In milliseconds: 0, 130, 260, 390, 520, 650, 780, 910, 1040, 1170, 1300, 1430, 1560, 1690, 1820, 1950
19	Tie Line/CO/PBX Incoming Signal Detect Time Selection	Refer to Tie Line/CO/PBX Incoming Signal Detect Time Selection on page 1-339.	
20	Tie Line Loop Off-Guard Time Selection	2.0	In seconds: 0.0, 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0
21	Tie Line Length of Wink Signal Selection	180	In milliseconds: 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420, 450, 480

LK 3 CO/PBX Line Mode (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
22	Tie Line Length of Delay Signal Selection	300	In milliseconds: 0, 300, 600, 900, 1200, 1500, 1800, 2100, 2400, 2700, 3000, 3300, 3600, 3900, 4200, 4500
24	Tie Line Incoming Interdigit Timeout Selection	6s	1s, 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s, 11s, 12s, 13s, 14s, 15s, ∞ (No Limit)
25	Tie Line Wink/Delay Signal Detect Timeout Selection	7s	1s, 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s, 11s, 12s, 13s, 14s, 15s, ∞ (No Limit)
27	Tie Line Dial Tone Selection	YS	YS, NO
28	Tie Line Reorder Tone Selection	YS	YS (Send) NO (Don't Send)
29	Trunk Internal Transmit Pad Selection	8	In dB: 2, 4, 6, 8, 12, 16, 3, -3, 0
30	Trunk Internal Receive Pad Selection	8	In dB: 2, 4, 6, 8, 12, 16, 3, -3, 0
31	Trunk External Transmit Pad Selection	0	In dB: 2, 4, 6, 8, 12, 16, 3, -3, 0
32	Trunk External Receive Pad Selection	0	In dB: 2, 4, 6, 8, 12, 16, 3, -3, 0
33	Disconnect Recognition Time Selection	0.3	In Seconds: 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4., 1.5
38	Automated Attendant Message to Trunk Selection	1	Message 1~8 to CO 01~64
40	Automatic Release Signal Detection Selection	350	In milliseconds: 0, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, ∞ (No Limit)
41	Delay Announcement Assignment	NN	Refer to Delay Announcement Assignment on page 1-364.
42	DIT Assignment	No Assignment	N/A
43	ANA Assignment	No Assignment	N/A
44	Caller ID Display Assignment for CO/ PBX Line	Not Specified	N/A
45	Live Record Trunk Selection	NO	NO = No Live Recording YS = Live Recording
50	ISDN Line SPID Assignment	Not Specified	Up to 20 digits

LK 3 CO/PBX Line Mode (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
52	ISDN Trunk Directory Number Assignment	Not Specified	Up to 20 digits
53	Caller Name Indication Selection	NUM	NO, NUM, NAM, TRK
59	Automated Attendant Function Selection	NORMAL	NORMAL, DELAY
61	DIT Delay Answer Time Selection	0s	0s, 5s, 10s, 20s, 30s, 40s, 50s, 60s
62	DIT Tenant Assignment	00	00~47
63	DIT Weekend Selection	YS	YS, NO
64	DIT Night Mode Delay Answer Selection	NO	No, YS
90	Polarity Reverse Selection	NO	NO, YS,
91	Trunk Type Selection	CO	CO, PBX, TIE, DID, CTX (Assume-9)
92	Trunk (Installed, DP/DTMF) Selection	MF	NIL, DP 10 pps, DP 20 pps, MF

LK 4 Telephone Mode

Data No.	Memory Block Name	Default Value	Programming Values
01	CO/PBX Ring Assignment (Day Mode)	Refer to CO/PBX Ring Assignment (Day Mode) on page 1-381	No Ring, Immediate Ring, Delayed Ring
02	CO/PBX Ring Assignment (Night Mode)	Refer to CO/PBX Ring Assignment (Night Mode) on page 1-384.	No Ring, Immediate Ring, Delayed Ring
03	Doorphone Chime Assignment (Day Mode)	Station Port 01 and 02 Chime for All Four Doorphones)	DPH1, DPH2, DPH3, DPH4 Station Port 01~120 Chime per Doorphone
04	Doorphone Chime Assignment (Night Mode)	Station Port 01 and 02 Chime (All Line Key LEDs)	DPH1, DPH2, DPH3, DPH4 Station Port 01~120 Chime per Doorphone
07	Code Restriction Class Assignment (Day Mode)	00 (All Stations)	Class 00~15 per Station

LK 4 Telephone Mode (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
08	Code Restriction Class Assignment (Night Mode)	00 (All Stations)	Class 00~15 per Station
09	Telephone to Tenant Assignment	00 (All Tenant Telephones)	Tenant Number
10	Station Number Assignment	100	Refer to Station Number Assignment on page 1-392.
11	Ringing Line Preference Selection	YS	NO, YS
12	Line Key Selection for Telephone Mode	CO	Refer to Line Key Selection for Telephone Mode on page 1-395.
13	CO/PBX Busy Forward Station Assignment	Not Specified	N/A
14	Intercom Master Hunt Number Selection	NO	NO, YS
15	Intercom Master Hunt Number Forward Assignment	No Telephones Specified	Station Number
17	Station to Class of Service Feature Assignment	00	Refer to Station to Class of Service Feature Assignment on page 1-401.
18	Station Name Assignment	Not Specified	Up to six digits (characters)
19	Trunk Outgoing Restriction	Off	Off = Not Restricted On = Restricted
23	Prime Line/Hot Line Assignment	Not Specified	Up to 10 digits
24	SLT Hookflash Assignment	HOLD	HOLD, DISC
26	DISA ID Number Station Assignment	01	Refer to DISA ID Number Station Assignment on page 1-410.
28	Multilingual LCD Indication Selection	ENG	JAPA, FREN, ENG, SPAN
29	HFU Selection	NO	NO, YS
30	Hold/Transfer Recall Display Selection	YS	YS, NO
31	Receiving Internal/All Call Page Selection	YS	YS, NO
32	Trunk Digit Restriction	00 (No Limit)	00~99
35	Voice Mail/SLT Selection	NO	NO, YS
36	Voice Prompt Selection	NO	NO, YS
37	Extension Line Key Ring Assignment (Day Mode)	All LEDs Off	LED Off (No Ring) Green LED (Immediate Ring) Red LED (Delayed Ring, Extension Line Key)

LK 4 Telephone Mode (Continued)

Data No.	Memory Block Name	Default Value	Programming Values
38	Extension Line Key Ring Assignment (Night Mode)	All LEDs Off	LED Off (No Ring) Green LED (Immediate Ring) Red LED (Delayed Ring, Extension Line Key)
39	APR Ring Mode Assignment	STA	NON, STA, ALL
40	LCR Class Selection	0	Class 0~4
41	SIE/CAR Ringing Line Preference Selection	YS	NO, YS
42	Call Forward - Busy Immediately/Delay Selection	YS	NO, YS
43	Station to Call Appearance Block Assignment	All Stations Assigned Call Appearance Block 00	Call Appearance Block 00~47
44	Caller ID Preset Dial Outgoing CO Selection	Not Specified	N/A
46	Live Record Auto Delete Selection	NO	YS, NO
47	ISDN Calling Party ID Transfer Yes/No Selection	YES	YES, NO
49	Caller ID Display for CAR Key Assignment	00 (Not Specified)	Refer to the Memory Block Description
50	Multiline Terminal Type Selection	16	16, 24 Line Keys for DTU-32-1 or DTU-32D-2(BK)/(WH) TEL
51	Off-Hook Ringing Selection	YS	YS, NO
52	CO/PBX Answer Key Operation Without Ringing Assignment (Day Mode)	YS	NO, YS
53	CO/PBX Answer Key Operation Without Ringing Assignment (Night Mode)	YS	NO, YS
54	Enhanced 911 CESID to Station Table	Not Specified	7 or 10 digits plus up to 5-digit extension
90	SLT Data Line Security Assignment	NORMAL	NORMAL, DATA
91	Telephone Ringing Variation Selection	M	M, L, H
92	Receiving Volume Selection	DOWN	DOWN, UP
93	Internal Zone Paging Selection	NO	No, A, B, C
94	3-Minute Alarm Selection	NO	NO, YS
95	DTMF/DP SLT Type Selection	MF	DP, MF

LK 5 Trunk Group Mode

Data No.	Memory Block Name	Default Value	Programming Values
00	Digit Add/Del for Tie Line Networking Assignment	000 (No Add or Delete)	Delete up to two digits Add up to two digits
01	Tie Line Networking Tandem Connection Assignment	All Trunk Groups CO/PBX Line LED On	On = Enable Off = Disable
02	8-Digit Matching Table to Trunk Group Assignment	Enabled CO/PBX Line LED On	On = Enable Off = Disable
03	OCC Table to Trunk Group Assignment	CO/PBX Line LED On Use All Tables	On = Enable Off = Disable

LK 6 Copy Mode

Data No.	Memory Block Name	Default Value	Programming Values
2	Tenant Mode Copy Assignment	N/A	N/A
3	CO Line Mode Copy Assignment	N/A	N/A
4	Telephone Mode Copy Assignment	N/A	N/A
5	Trunk Group Mode Copy Assignment	N/A	N/A

LK 7 ETU Mode

Data No.	Memory Block Name	Default Value	Programming Values
1	Card Interface Slot Assignment	Refer to Card Interface Slot Assignment on page 1-461.	
2	Telephone Type Assignment	TEL	NON, TEL, CONSOL, ADP, DVM MSG BOARD
3-00	MIF (ACD) Assignment	00 (No Assignment)	N/A
3-01	MIF (LCR) Assignment	00 (No Assignment)	N/A
3-02	MIF (SMDR) Assignment	00 (No Assignment)	N/A
3-03	MIF (UCD) Assignment	00 (No Assignment)	N/A
3-04	MIF (CALLER ID/ANI) Assignment	00 (No Function)	N/A

LK 8 Special Mode

Data No.	Memory Block Name	Default Value	Programming Values
1	ROM Version Confirmation	N/A	N/A
2	System Speed Dial Memory Clear	N/A	N/A
3	Station Speed Dial Memory Clear	N/A	N/A
8	Second Initialization	N/A	N/A
	Clock/Calendar Setting	N/A	N/A

SECTION 4
PROGRAMMING
SYSTEM DATA

This section provides detailed instructions for programming individual Memory Blocks. The Memory Blocks are listed numerically. For each Memory Block, the following information is provided.

- ***General Description*** is a brief explanation of the function of the Memory Block.
- ***Display*** indicates the default information displayed in the Multiline Terminal LCD during programming.
- ***Settings*** (when applicable) indicates the information that is entered using the line keys on the Multiline Terminal.
- ***Programming Procedures*** contains detailed procedures for programming the Memory Block.
- ***Related Programming*** (where applicable) contains a list of associated Memory Blocks that may need to be programmed.
- ***Notes*** contains additional information related to programming the Memory Block.

Pause Time Selection

System Mode
1
Submode
1
Data No.
00
PC Programming
Alt +BCM

General Description

A pause can be inserted between digits dialed on CO/PBX and Tie lines. Use this Memory Block to specify the time of the pause.

Display

Data No. | Title | Data Setting

00 : PAUSE 3.0s

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
1.0s	3.0s		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 0 0 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-09	Manual Pause Selection
1-1-24	PBX/CTX Access Code Assignment I
1-1-25	PBX/CTX Access Code Assignment II
3-91	Trunk Type Selection

Notes

1. A pause is automatically inserted following a CO/PBX Access Code (e.g., 9) by programming CO/PBX lines as PBX in Memory Block 3-91 (Trunk Type Selection) and 1-1-24/25 (PBX/CTX Access Code Assignments I/II).
2. Manual pauses can be stored for use when dialing outside lines by the Last Number Redial or Save/Store and Repeat features when Memory Block 1-1-09 (Manual Pause Selection) is programmed.
3. Pauses can be stored as part of System and Station Speed Dial buffers when needed.

DP Interdigit Time Selection

System Mode
1
Submode
1
Data No.
01
PC Programming
Alt +BCM

General Description

The DP Interdigit Time is the minimum pause time between Dial Pulses. Use this Memory Block to Select either Pattern A or Pattern B.

Display

Data No. — Title — Data Setting

```
01:DP INTER        B
TIME DISPLAY
```

Settings

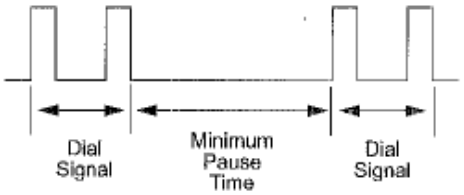
LK 1	LK 2	LK 3	LK 4
A	B		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 0 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Data \ DP Dial	10 pps	20 pps
Pattern A	650 ms.	500 ms.
Pattern B	800 ms.	800 ms.



Related Programming

M.B. Number	Memory Block Name
3-92	Trunk (Installed, DP/DTMF) Selection

Notes

Use this Memory Block when DP Tie lines or DID are assigned in Memory Block 3-92 [Trunk (Installed, DP/DTMF) Selection] to send Dial Pulse signaling.

Hookflash Time Selection

System Mode
1
Submode
1
Data No.
02
PC Programming
Alt +BCM

General Description

Use this Memory Block to specify the loop open time for a hookflash signal sent to the CO or PBX when the Recall key on a Multiline Terminal is pressed. A Single Line Telephone (SLT) generates a hookflash to the CO or PBX line when a Single Line Telephone hookflash is assigned.

Display

Data No. | Title | Data Setting | Page No.

02 : FLSH 600 ms | 2

TIME DISPLAY

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
20ms	40ms	60ms	80ms
LK 5	LK 6	LK 7	LK 8
100ms	140ms	160ms	200ms

(Page 2)

LK 1	LK 2	LK 3	LK 4
400ms	600ms	800ms	1.0s
LK 5	LK 6	LK 7	LK 8
1.5s	2.0s	3.0s	5.0s

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 0 2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: Recall to go to the next page Feature to go to the previous page
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
1-1-47	Access Code (2-Digit) Assignment
1-3-02	SLT Hookflash Signal Selection
4-24	SLT Hookflash Assignment

Notes

1. A 1- or 2-digit Access Code can be assigned in Memory Block 1-1-46/47 [Access Code (1-Digit/2-Digit) Assignment] for Single Line Telephones to send a hookflash signal on a CO/PBX line (default: 6 #).
2. A hookflash from a Single Line Telephone puts an existing call on hold or sends a hookflash signal on the CO/PBX line.

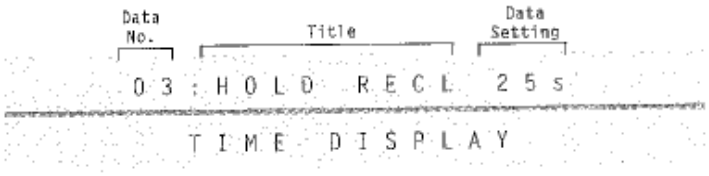
Hold Recall Time Selection (Non-Exclusive Hold)

System Mode
1
Submode
1
Data No.
03
PC Programming
Alt +BM

General Description

Use this Memory Block to specify the time a Non-Exclusive Hold outside call is held until a recall tone is generated. If No Limit is selected, the hold recall alarm tone is not generated.

Display



Settings

LK 1	LK 2	LK 3	LK 4
25s	45s	60s	90s
LK 5	LK 6	LK 7	LK 8
120s	180s	240s	∞ (No Limit)

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 0 3 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-63	Hold Recall Time Selection (Exclusive)
1-2-23	System Call Park Recall Time Selection

Notes

1. Calls put on Exclusive Hold, recall using the data selected in Memory Block 1-1-63 [Hold Recall Time Selection (Exclusive)].
2. Calls placed on hold on Call Appearance keys, recall using this Memory Block.
3. Calls parked in System Call Park locations recall using Memory Block 1-2-23 (System Call Park Recall Time Selection).

Automatic Redial Time Selection

System Mode
1
Submode
1
Data No.
04
PC Programming
Alt +BM

General Description

If a called party is busy, the station user dials an Access Code and restores the handset. Use this Memory Block to define the redial timing parameters when automatic redial is set to a busy CO/PBX number. After the specified number of call attempts with no answer, the system stops dialing.

Display

Data No. | Title | Table 1~3 | Data Setting

```
04:REDIAL(1)  030
TIME  DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + (0) (4) to access the Memory Block.
3	Use the dial pad to enter the Table Number and Setting Data. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right Setting Data (Allowed): Table 1 (Calling Time): 001~050 sec. Table 2 (Call Waiting Time): 001~100 sec. Table 3 (Call Attempts): 001~015 times ☞ 000 cannot be entered.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Default Values

Table No.	Description	Value
1	Calling Time	030
2	Call Waiting Time	060
3	Call Attempts	002

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Definitions:

   Calling Time: The time that the system automatically calls the busy CO/PBX number. After the specified time limit is reached, the call is abandoned.

   Call Waiting Time: The time the system waits between call attempts.

   Call Attempts: The number of times the system redials the busy CO/PBX number.

2. If Call Pickup groups are assigned using Memory Block 4-09 (Telephone to Tenant Assignment), the CO lines must be assigned to the same Tenant group in Memory Block 2-01 (Trunk to Tenant Assignment) for this feature to work.

Start Time Selection

System Mode
1
Submode
1
Data No.
05
PC Programming
Alt +BM

General Description

Use this Memory Block to specify the time needed after dialing before the system starts the Elapsed Call Timer.

Display

Data No. | Title | Data Setting

```
05:CALL START 10s
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
10s	20s	30s	40s
LK 5	LK 6	LK 7	LK 8
50s	60s	70s	2s

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 0 5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-5-25	SMDR Valid Call Time Assignment

Notes

This time is used for the features with functions described below:

Elapsed Call Time: The time needed after dialing until the Elapsed Call Timer is started and displayed on a Multiline Terminal.

SMDR Start Time: The time needed after dialing until the SMDR Valid Call Time is started. Refer to Memory Block 1-5-25 (SMDR Valid Call Time Assignment). For outgoing calls, both Elapsed Call Time and SMDR Valid Call Time

Notes

1. Memory Blocks 4-01 and 4-02 [CO/PBX Ring Assignment (Day Mode/Night Mode)] must be set to ring.
2. CO/PBX lines assigned for DIT/ANA do not activate this feature.
3. Tie/DID lines assigned for Delayed Ringing follow this assignment after the delayed ringing starts.
4. This feature uses the same ringing tone (Low, Medium, High) that can be selected in Memory Blocks 3-07 (CO/PBX Ringing Variation Selection) and 4-91 (Telephone Ringing Variation Selection). If High is selected in those Memory Blocks, this feature does not function.
5. Select ∞ (No Limit) to disable this feature.

Tie Line Delay Ringing Time Selection

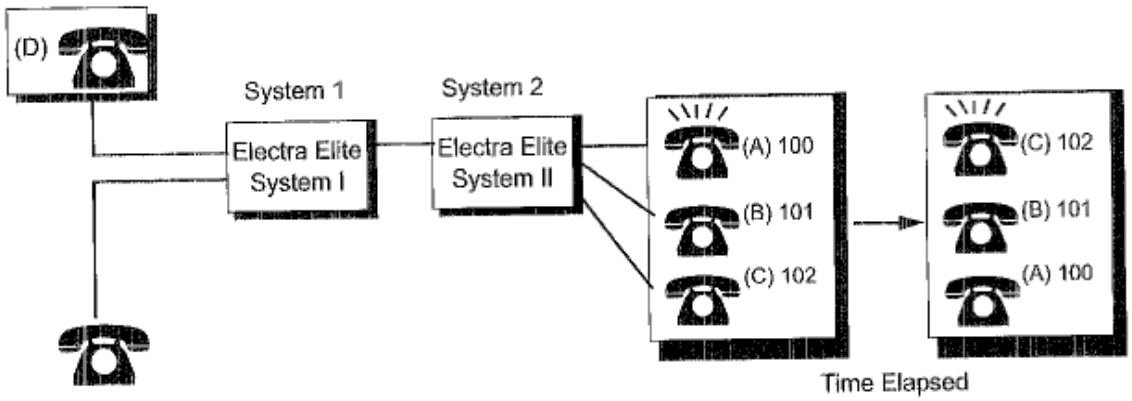
System Mode
1
Submode
1

General Description

A Tie line call ringing at a station can begin ringing at other preassigned stations if it is not answered in a predetermined time. Use this Memory Block to specify the time. CO/PBX Ringing Assignment defines the preassigned stations.

Notes

Example:



In this example, systems 1 and 2 are connected. Stations A (extension 100) and C (extension 102) are assigned to ring on the Tie line using Memory Blocks 4-01 and 4-02 [CO/PBX Ring Assignment (Day/Night) Mode].

1. To speak to station user A, station user D dials extension 100.
2. In the example at station A:
   - The ICM LED blinks, and a ring tone that is different from the normal ringing tone is heard.
   - The call can be answered by lifting the handset.
   - Stations B and C users cannot press the line key on the Multiline Terminals to answer the call.
3. In the example, if station user A does not answer in the specified time:
   - The ringing tone changes to the normal tone and station C starts ringing.
   - Any station (A, B, or C) user can press the flashing line key to answer the call.
4. After the timeout, the system uses the Day and Night Ringing Assignment and rings the assigned station.
5. Select ∞ (No Limit) to disable this feature.

Manual Pause Selection

System Mode
1
Submode
1
Data No.
09
PC Programming

General Description

Use this Memory Block to specify either Pause Insertion or Last Number Dialed/Speed Dial to be executed using the Redial key if it is pressed after one or more digits of a dialed number are entered.

Display

System Transfer/Camp-On Selection

System Mode
1
Submode
1
Data No.
11
PC Programming
Alt +BTS

General Description

Use this Memory Block to select whether or not (system-wide) the station user can press the Transfer key to perform a Ring Transfer or Station Camp-On.

Display

Data No. | Title | Setting Data

```
11:RING TRF      YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + ⏲ ⏲ to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-12	Station Transfer/Camp-On Recall Time Selection

Notes

Transfers or camp-ons from Attendant Add-On Consoles are also affected using this Memory Block.

CO Transfer Ring Pattern Selection

System Mode
1
Submode
1
Data No.
13
PC Programming
Alt +BCS

General Description

Use this Memory Block to select a Ring Pattern when CO transfers are made.

Display

Data No. | Title | Setting Data | Page

```
13:COT PTN  C|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
OFF	ON	A	B
LK 5	LK 6	LK 7	LK 8
C	D	E	F

(Page 2)

LK 1	LK 2	LK 3	LK 4
G	H		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 1 3 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: Recall to access the next page Feature to access the previous page
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-11	System Transfer/Camp-On Selection
1-1-14	CO Transfer Ring Tone Selection

CO Transfer Ring Tone Selection

System Mode
1
Submode
1
Data No.
14
PC Programming
Alt +BCS

General Description

Use this Memory Block to select a ring tone for CO transfers.

Display

Data No. | Title | Setting Data

```
14:COTRF TONE A
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
A	B	C	D
LK 5	LK 6	LK 7	LK 8
E	F	G	H

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 1 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. The available tones are:

Tone	Frequency
Tone A	480/600 (Modulation - 16 Hz)
Tone B	480/606 (Modulation - 8 Hz)
Tone C	1024/1285
Tone D	1024
Tone E	500
Tone F	1024/1285 (Modulation - 16 Hz)
Tone G	600/700 (Modulation - 16 Hz)
Tone H	1024 (Envelope - 2 sec.)

4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-11	System Transfer/Camp-On Selection
1-1-13	CO Transfer Ring Pattern Selection

System Speed Dial Restriction by Tenant

System Mode
1
Submode
1
Data No.
18
PC Programming

General Description

Use this Memory Block to specify whether or not System Speed Dial is restricted for each tenant.

Display

Data No.	Title	Speed Dial Buffer No. (XX~YY)	Starting Tenant No. Groups of 8

Programming Procedures

1 Go off-line.

2 Press LK1 + LK1 + 1 8 to access the Memory Block.

3 Press the corresponding CO/PBX line key to change the tenant number.

Speed Dial buffers have the nine groups listed in the table below.

Speed Dial Buffer No.	Speed Dial Number	
	80 Codes	1000 Codes
0X	00~09	000~099
1X	10~19	100~199
≀	≀	≀
6X	60~69	600~699
7X	70~79	700~799
8X	N/A	800~899

X = 0~9

Default Values

All System Speed Dial buffers can be dialed from any tenant.

☞ Use the following to enter data:

- # to move the cursor left
- # to move the cursor right
- 0 ~ 9 to enter numeric data
- Recall to move to the next page
- Feature to move to the previous page

Each time a CO/PBX line key is pressed, the LED toggles between On and Off.

CO/PBX Line LED	Off	On
Data	Restricted	Not restricted

The shaded area is the default setting

4 After entering all pages for the selected Speed Dial Buffer No., press Transfer to write the data. The next Speed Dial Buffer No. is

DID Digit Length Selection

System Mode
1
Submode
1
Data No.
20
PC Programming
Alt +ALN

General Description

Use this Memory Block to define the number of Direct Inward Dialing (DID) digits in Memory Block 1-1-22 (DID Digit Conversion Table).

Display

Data No. | Title | Setting Data

```
20 : DID DGT        3
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + (2) (0) to access the Memory Block.	
3	Enter the data using the dial pad. ☞ Use the following to enter data: (#) to move the cursor left (#) to move the cursor right (0) - (9) to enter numeric data [Hold] to clear all data	**Default Values** 3 (Setting Data 2, 3, or 4)
4	Press [Transfer] to write the data.	
5	Press [Speaker] to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-1-21	DID Digit Conversion Assignment
1-1-22	DID Digit Conversion Table
1-1-23	DID Forward Station Number for Busy Station or Undefined Digit
5-00	Digit Add/Del For Tie Line Networking Assignment

DID Digit Conversion Assignment

System Mode	Submode	Data No.
1	1	21

General Description

Use this Memory Block to enable the DID Digit Conversion Table, Memory Block 1-1-22 (DID Digit Conversion Table), for each number.

Display

DID Digit Conversion Table

System Mode
1
Submode
1
Data No.
22
PC Programming
Alt +ALN

General Description

Up to 200 incoming DID numbers can be assigned individually to ring at preassigned 2-digit, 3-digit, or 4-digit station number, closed number (plus outgoing digits), or tenant number (00~47) for day mode or night mode. This Memory Block applies to the DID number after it is modified by Memory Block 5-00 (Digit Add/Del for Tie Line Networking Assignment).

Display

Data No. | Digits Received | Mode | Setting Data

```
22 :          DY = T
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
T (Station or Closed Number)	TN (Tenant)		
LK 5	**LK 6**	**LK 7**	**LK 8**

Default not assigned

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + 2 2 to access the Memory Block.	
3	Press Line Key to select Station (or closed number) or tenant. Enter the data using the dial pad. ☞ Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter numeric data Redial to switch between Day and Night Hold to clear all data Digits Received: 0000~9999 Setting Data: Station No. is a 2-, 3-, or 4-digit number (10~99, 100~999, 0r 1000~9999). Closed Number is a 2-, 3-, or 4-digit number to facilitate routing to the closed number. Tenant No. 00~47	**Default Values** Not Specified
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-1-20	DID Effective Digit Selection
1-1-21	DID Digit Conversion Assignment
1-1-23	DID Forward Station Number for Busy Station or Undefined Digit
5-00	Digit Add/Del For Tie Line Networking Assignment

PBX/CTX Access Code Assignment I

System Mode
1
Submode
1
Data No.
24
PC Programming
[Alt]+BA

General Description

Use this Memory Block to specify a PBX line PBX/CTX Access Code together with pauses for outgoing calls.

Display

Data No. | Title | Setting Data

```
24 : PBX AC 9-
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + (2) (4) to access the Memory Block.	
3	Enter the data using the dial pad. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data [Redial] to insert a pause [Hold] to clear all data	**Default Values** 9-
4	Press [Transfer] to write the data.	
5	Press [Speaker] to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-91	Trunk Type Selection

PBX/CTX Access Code Assignment II

System Mode
1
Submode
1
Data No.
25
PC Programming
Alt +BA

General Description

Use this Memory Block to specify a second PBX line PBX/CTX Access Code together with pauses for outgoing calls.

Display

Data No. | Title | Setting Data

```
25:PBX AC 8-
TIME DISPLAY
```

Programming Procedures

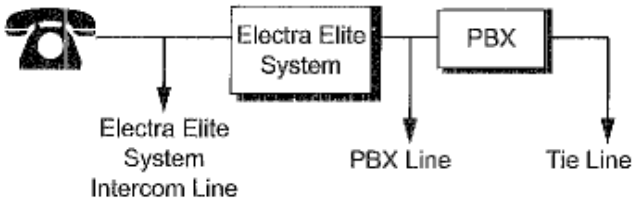
1	Go off-line.	
2	Press LK1 + LK1 + (2) (5) to access the Memory Block.	
3	Enter the option using the dial pad. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data [Redial] to insert a pause (cannot be first digit) [Hold] to clear all data	**Default Values** 8-
4	Press [Transfer] to write the data.	
5	Press [Speaker] to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-91	Trunk Type Selection

Notes

Example:



1. Features such as Code Restriction do not operate properly unless a PBX/CTX Access Code is specified. This limitation only applies to PBX lines assigned in Memory Block 3-91 (Trunk Type Selection).
2. A pause is not inserted in the number of an outgoing call on a CO line.
3. Up to three numeric characters and three pauses can be specified.
4. A pause cannot be inserted as the first or as consecutive digits.

Related Programming (Continued)

M.B. Number	Memory Block Name
4-38	Extension Line Key Ring Assignment (Night Mode)

Notes

1. The start times for Day Mode or Night Mode can be specified in System Programming to automatically switch modes at the specified times.
2. A start time for Day Mode only or Night Mode only cannot be programmed.
3. Day Mode and Night Mode cannot be programmed to have the same start time.
4. The time is entered in 24-hour time only.
5. The first time input indicates when Day Mode starts. The second time input indicates when Night Mode starts.
6. Refer to Memory Block 1-1-32 (Automatic Day/Night Mode by Day of Week Selection) for selecting either Pattern 1 or Pattern 2 Day/Night Mode start times for each day of the week. Assigning each day of the week to either Pattern 1 or Pattern 2 allows Day/Night Mode start times for Monday through Friday to differ from Day/Night Mode start times for Saturday and Sunday.

Distinctive Ringing by Telephone or CO Selection

System Mode
1
Submode

General Description

Use this Menu to assign a distinctive ringing tone for each telephone or each CO/

Private Line Assignment

System Mode
1
Submode
1
Data No.
29
PC Programming
Alt +BCS

General Description

Use this Memory Block to assign an outside line as a private line. The private line cannot be seized by any other telephone, and no LED indication is provided to other terminals.

Display

```
                Combination
                   No.
Data            (1/2)        CO No.      Tel. Port No.
 No.  Title                  (01~64)       (01~CO)

 29 : P   1   C =          T =

        T I M E   D I S P L A Y
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + (2) (0) to access the Memory Block.	
3	Enter the data using the dial pad. ☞ Use the following to enter data: (#) to move the cursor left (*) to move the cursor right (0) ~ (9) to enter numeric data (Hold) to clear all data when cursor is at CO No. or Tel. Port No.	**Default Values** Not Specified
4	Press (Transfer) to write the data. Data for the second line is displayed. Move the cursor to change the data.	
5	Press (Transfer) to write the data.	
6	Press (Speaker) to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
2-06	Line Key Selection for Tenant Mode
4-12	Line Key Selection for Telephone Mode

Notes

1. Two private lines can be assigned to one station or one private line can be assigned to two stations.
2. A Single Line Telephone (SLT) user cannot dial the Trunk Group Access Code to access a private line. The Single Line Telephone user can access the line by dialing the specified Line Seizure Access Code assigned in Memory Blocks 1-1-46/1-1-47 [Access Code (1-digit/2-digit) Assignment (Function 063 or 064)].
3. If a station is allowed Barge-In originate, and a second station is allowed Barge-In receive, Barge-In is not

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment

Notes

1. If 00 (Not Set) is programmed, no trunks are accessed for this priority setting.
2. If Route Advance Block Numbers are assigned and a line key is pressed or an Access Code is dialed, the system starts searching for an idle line in a specified group (beginning with the Trunk group assigned priority 1).
3. If all CO/PBX lines are in use, the line with the next highest priority is seized.
4. Route Advance Block Number Access Codes are defined in Memory Block 1-1-46 [Access Code (1-Digit) Assignment] or Memory Block 1-1-47 [Access Code (2-Digit) Assignment].
5. Pressing the Transfer key repeatedly cycles through four priorities for the displayed Block, repeats this process sequentially until all Blocks are covered, and then returns to block 1. The Trunk Group must be added using the dial pad keys.

Automatic Day/Night Mode by Day of Week Selection

System Mode
1
Submode

General Description

[illegible] Day/Night Mode start times for

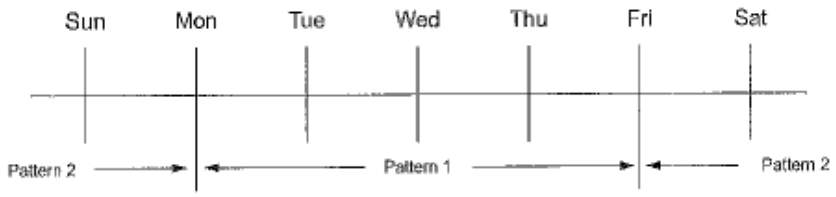
Related Programming

M.B. Number	Memory Block Name
1-1-27	Automatic Day/Night Mode Switching Time Assignment
1-8-07	Class of Service (Attendant) Feature Selection 1
4-09	Telephone to Tenant Assignment
4-17	Station to Class of Service Feature Assignment

Notes

By designating two time settings in Memory Block 1-1-27 (Automatic Day/Night Mode Switching Time Assignment), one of the two settings can be assigned to each day of the week.

To specify Day/Night Mode automatic switching time for Monday ~ Friday, and Day/Night Mode automatic switching time 2 for Saturday and Sunday, press CO/PBX line keys 1 and 7.



Speed Dial Number/Name Display Selection

System Mode
1
Submode
1
Data No.
33
PC Programming
Alt + BE

General Description

Use this Memory Block to specify whether the dialed number or name is displayed first on the LCD of the originating station when an outgoing call is made using Speed Dial.

Display

Data No. | Title | Setting Data | Title

```
33:SPD DIAL DISP
 TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
DIAL	NAME		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

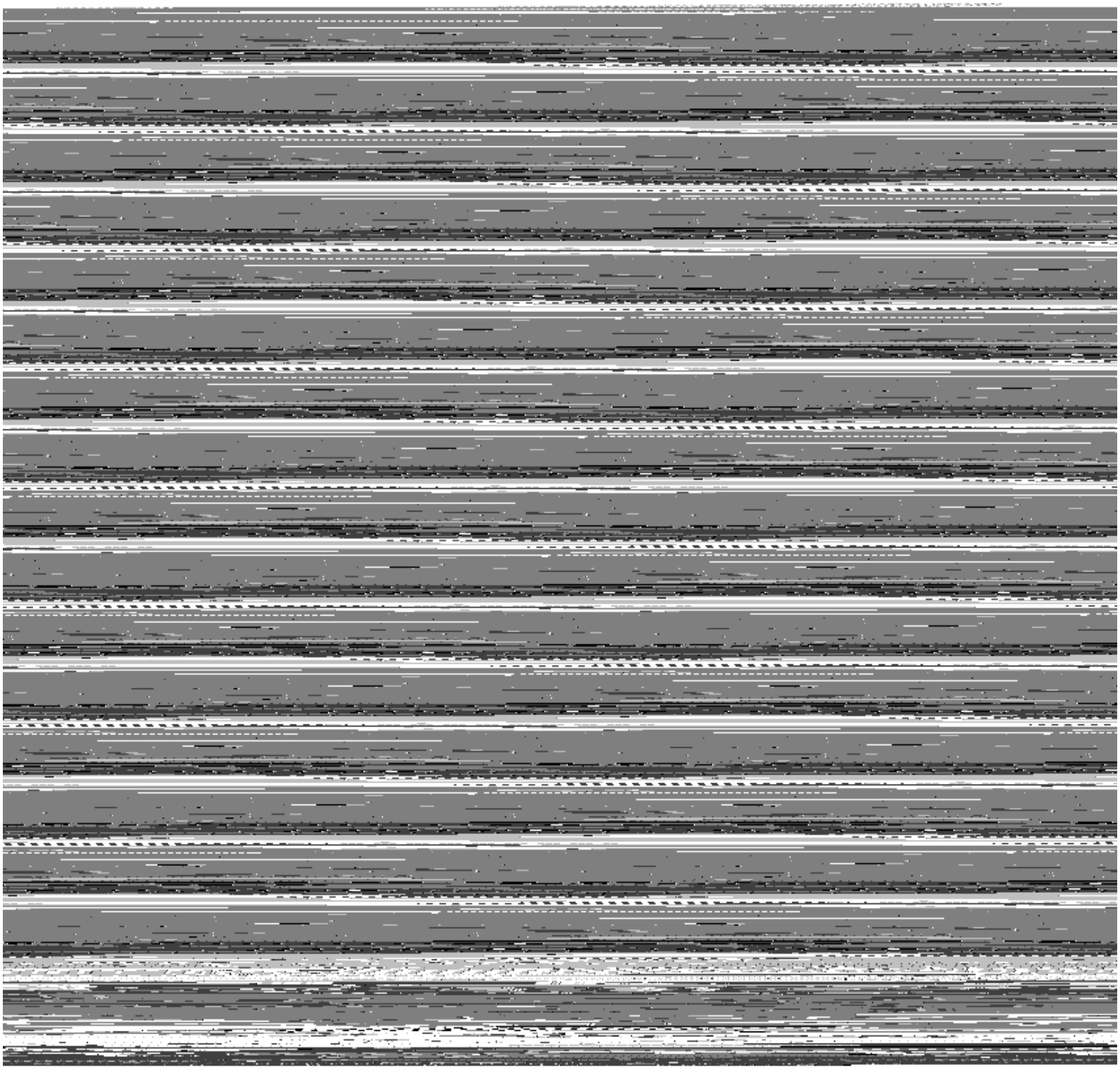
Programming Procedures

1	Go off-line.
2	Press K4 + LK4 + 3 3 to access the Memory Block

Ringing Pattern Selection

s= seconds

Pattern	0s 1s 2s 3s 4s 5s 6s
1	
2	
3	
4	
5	Same as Internal Ring
6	Voice Announce



Trunk Queuing Timeout Selection

System Mode
1
Submode
1
Data No.
37
PC Programming
Alt +BM

General Description

Use this Memory Block to specify the time that a station with Trunk Queue set rings, before the queue is automatically canceled.

Display

Data No. | Title | Setting Data

```
37:TRUNK QUE 10s
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
10s	20s	30s	60s
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 3 7 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

When all trunks in a particular Trunk group are busy, the station user can dial an Access Code to queue on the busy Trunk group. When a Trunk (in that group) becomes idle, the queued station is signaled.

Access Code (1-Digit) Assignment

System Mode
1
Submode
1
Data No.

General Description

Use this Memory Block to assign a 1-digit number as an Access Code or station number.

Display

Dial

Notes

1. Select options from the list of function numbers in Memory Block 1-1-46 [Access Code (1-Digit) Assignment], and assign a number (from 0~9), ∗, or # to each selected function.
   - When a function is assigned a 1-digit Access Code, 2-digit Access Codes with the same first digit become invalid (*i.e.*, if a function is assigned to Access Code 5, Access Codes 50~59, 5∗, and 5# cannot be used.)
2. To enter # or ∗ as part of an Access Code, press Redial then # or ∗.
3. This Memory Block is used when a 2- or 3-Digit Station Numbering Plan is programmed.

This table applies to Data Numbers 46, 47, and 48.

Default Dial Numbers and Function Numbers

Default Dial No.	Function No.	Function Name
4, 5, 6, 7	000	Not Used
1, 2, 3	001	Station Number
	002	Not Used
	≀	≀
	019	Not Used
	020	Call Forward No Answer Set
	021	Call Forward No Answer Cancel
	022	Call Forward Busy Set
	023	Call Forward Busy Cancel
43	024	Call Forward Busy/No Answer Set
44	025	Call Forward Busy/No Answer Cancel
#	026	Callback Message Answer
6#	027	SLT Hookflash
	028	Not Used
	029	Not Used
41	030	Call Forward All Call Set

Default Dial Numbers and Function Numbers

Default Dial No.	Function No.	Function Name
	034	Call Forward All Call Cancel from Destination
	035	Station Outgoing Lockout Set
	036	Station Outgoing Lockout Cancel
	037	Change Password
	038	Reset Password from Attendant
	039	Fax Status Indication (Tie/DID lines)
	040	Log - ON/OFF
	041	Account Code Entry
67	042	Call Pickup Direct
	043	Not Used
	044	Timed Alarm Set at SLTs
	045	Timed Alarm Cancel at SLTs
	046	Set and Cancel of Timed Alarm for Single Line Telephone from Attendant
4∗	047	Call Park System Transfer
4#	048	Call Park System Answer
60	049	Volume/LCD Control

Default Dial Numbers and Function Numbers

Default Dial No.	Function No.	Function Name
9	101	Trunk Group 01
8	102	Trunk Group 02
70	103	Trunk Group 03
71	104	Trunk Group 04
72	105	Trunk Group 05
73	106	Trunk Group 06

Default Dial Numbers and Function Numbers

Default Dial No.	Function No.	Function Name
	179	Specified Station Access Code 03
	180	Specified Station Access Code 04
	181	Specified Station Access Code 05
	182	Specified Station Access Code 06
	183	Specified Station Access Code 07
	184	Specified Station Access Code 08

Default Dial Numbers and Function Numbers

Default Dial No.	Function No.	Function Name
	251	DISA Password Set (Any station)
	252	DISA Password Reset (Attendant only)
	253	DISA Password Confirmation (Attendant only)
	254	Not Used
	255	Not Used
	301	Third Digit Table Number 01 (2-digit Numbering Plan can only be entered.)
	≀	≀

Default Dial Numbers and Function Numbers

Default Dial No.	Function No.	Function Name
	304	Third Digit Table Number 04 (2-digit Numbering Plan can only be entered.)
	401	Closed Number Block 1
	≀	≀
	416	Closed Number Block 16
	501	VRS Voice Message Record/Verify/ Erase (Voice Prompt, Automated Attendant)
	502	Voice Mail Message Set
	503	Voice Mail Message Cancel

Access Code (2-Digit) Assignment

System Mode
1

Submode
1

Data No.
47

PC Programming
Alt +BA

General Description

Use this Memory Block to assign a 2-digit number as an Access Code.

Display

Data No. | Title | Dial No. 0~9 * # | Function No.

```
47:2DG   (00)=000
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + (4) (7) to access the Memory Block.
3	Enter the options using the dial pad.

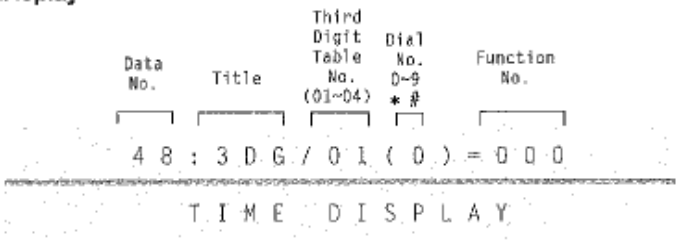
Access Code (3-Digit) Assignment

System Mode
1
Submode
1
Data No.
48
PC Programming
Alt +BA

General Description

Use this Memory Block to assign a 3-digit number as an Access Code.

Display



Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + (4) (8) to access the Memory Block.	
3	Enter the function code data using the dial pad. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data Redial and (*) to enter * Redial and (#) to enter #	**Default Values** All Dial 000 (Not Used)
4	Press Transfer to write the data. The next dial number data is displayed.	
5	After last entry, press Transfer to write the data.	
6	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
1-1-47	Access Code (2-Digit) Assignment

Notes

1. Select options from the list of function numbers in Memory Block 1-1-46 [Access Code (1-Digit) Assignment], and assign a 3-digit Access Code.
   - When a function is assigned a 1-digit Access Code or 2-digit Access Code, 3-digit Access Codes (with the same first digit) become invalid (*i.e.*, if a function is assigned to Access Code 5, Access Codes 50~59, 5✱, and 5# cannot be used.)
2. A station number is not assigned in this Memory Block.
3. All the [illegible] functions [illegible] 001 (Station Number) in 1-digit assignment are valid in this block.

Networking Trunk Group/Route Advance Assignment

System Mode
1
Submode
1
Data No.
49
PC Programming
Alt +BCS

General Description

Use this Memory Block to assign the function number of the Trunk group to be used to network an Electra Elite 48/192 system to another system by Tie lines or CO/PBX/CTX lines.

Display

```
                Closed
                Number        Enter
Data            Block         Function
No.             01~16         No.

4 9 : 0 1 = R T
```

T I M E D I S P L A Y

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + (4) (9) to access the Memory Block.	
3	Use dial pad to enter the Function Number of the Trunk Group or the Route Advance Block. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data Hold to clear all data	**Default Values** Not Specified
4	Press Transfer to write selected data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-1-30	Route Advance Block Assignment
1-1-50	CO/PBX Outgoing Digit Add Assignment
3-03	Trunk-to-Trunk Group Assignment

Notes

Function Number 101~132 (Trunk Group 1~32, respectively) or 201~216 (Route Advance Block 1~16, respectively) is assigned to Closed Number blocks.

CO/PBX Outgoing Digit Add Assignment

System Mode
1

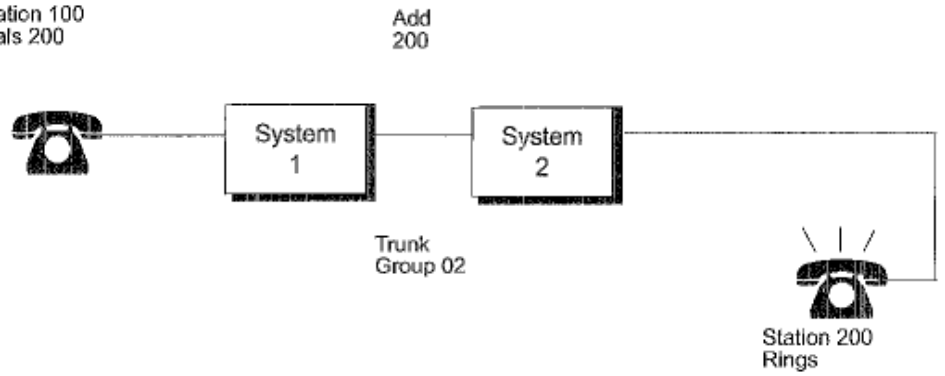
Submode
1

General Description

Use this Memory Block to specify up to 10 additional digits when a trunk in the Trunk group or Route Advance block assigned in Memory Block 1-1-49 (Networking Trunk Group/Route Advance Assignment) is seized, and a number is dialed.

Notes

Example:



To assign System 1 in System Programming:

1. Memory Block 1-1-46 [Access Code (1-Digit) assignment]. Assignment 2 → 401 (Closed Number Block 01).
2. Memory Block 1-1-49 (Networking Trunk Group/Route Advance Assignment). Assignment Block 01 → 102 (Trunk group 02).
3. Memory Block 1-1-50 (CO/PBX Outgoing Digit Add Assignment). Assignment Block 01 → Assign 2.
4. Digits are added when the Access Code is dialed from the internal dial tone.
5. This Memory Block also applies to ISDN trunks.

CO Line Ringing Pattern Selection

System Mode
1
Submode
1
Data No.
51
PC Programming
Alt +BCS

General Description

Use this Memory Block to assign the initial ringing pattern or no ring for incoming calls on a CO line.

Display

Data No. | Title | Setting Data | Page No.

```
51:CO PTN        A|1
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
A	B	C	D
LK 5	LK 6	LK 7	LK 8
E	F	G	H

LK 9	LK 10	LK 11	LK 12
NO			
LK 13	LK 14	LK 15	LK 16

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 5 7 to access the Memory Block.
3	Press corresponding CO/PBX line key to change data. ☞ Use the following to enter data: Recall to access the next page Feature to access the previous page
4	Press Transfer to write data.
5	Press Speaker to go back on-line.

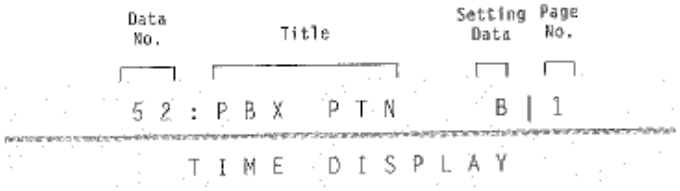
PBX Line Ringing Pattern Selection

System Mode
1
Submode
1
Data No.
52
PC Programming
[Alt]+BCS

General Description

Use this Memory Block to assign the initial ringing pattern or no ring for incoming calls on a PBX line.

Display



Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
A	B	C	D
LK 5	LK 6	LK 7	LK 8
E	F	G	H

(Page 2)

LK 9	LK 10	LK 11	LK 12
NO			
LK 13	LK 14	LK 15	LK 16

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + (5) (2) to access the Memory Block.
3	Press corresponding CO/PBX line key to change data. ☞ Use the following to enter data: (Recall) to access the next page (Feature) to access the previous page
4	Press (Transfer) to write data.
5	Press (Speaker) to go back on-line.

Related Programming

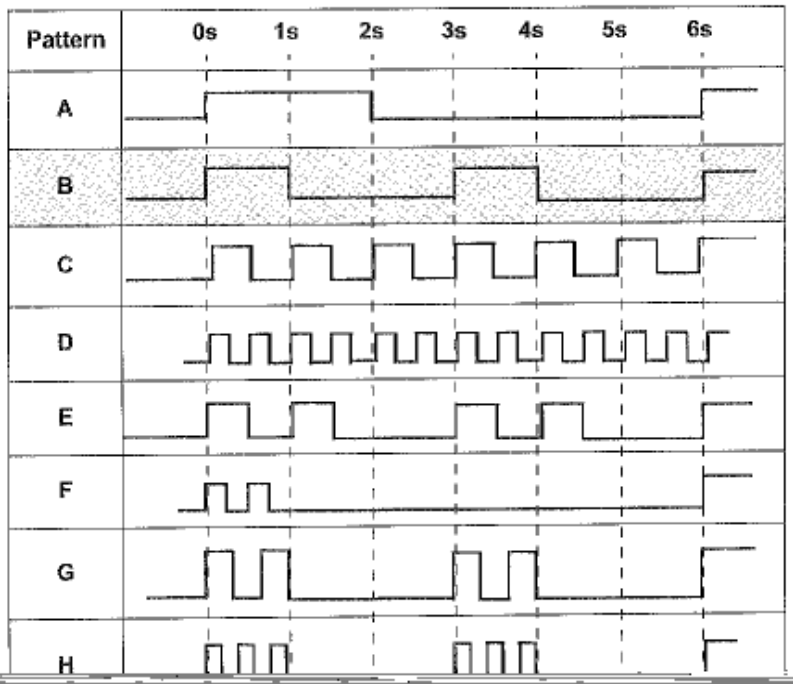
No related programming is necessary for this Memory Block.

Notes

Do not program this Memory Block if Memory Block 1-1-59 (Synchronous Ringing Selection) is assigned YS.

The Ring Patterns are listed in the table below:

s= seconds

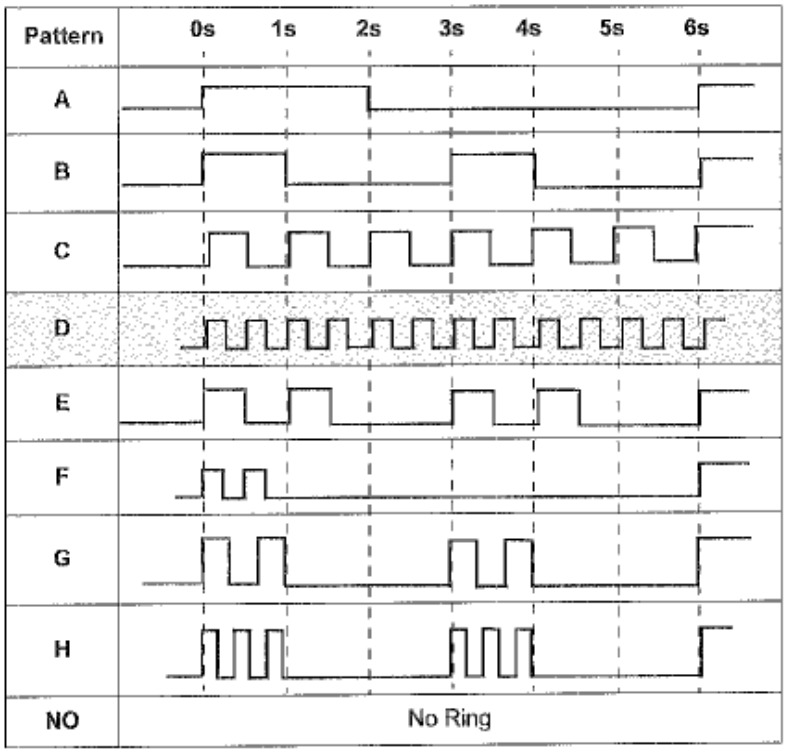


Related Programming

M.B. Number	Memory Block Name
1-1-07	Tie Line Delay Ringing Time Selection
1-1-34	Tie Line First Ring Pattern Selection
4-01	CO/PBX Ring Assignment (Day Mode)
4-02	CO/PBX Ring Assignment (Night Mode)

The Ring Patterns are shown in the table below:

s= seconds



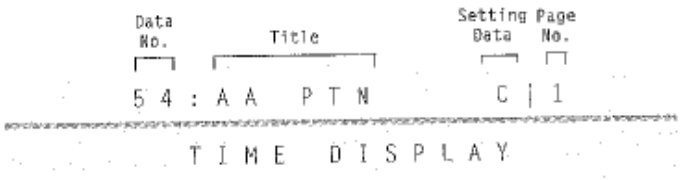
Automated Attendant Transfer Ring Pattern

System Mode
1
Submode
1
Data No.
54
PC Programming
All +AU

General Description

Use this Memory Block to specify the ringing pattern or no ring sent to the Multiline Terminal when an incoming call is received at the Automated Attendant and transferred.

Display



Settings

(Page 1)

DID Line Ringing Pattern Selection

System Mode
1
Submode
1
Data No.
55
PC Programming
Alt +ALN

General Description

Use this Memory Block to assign the ringing pattern or no ring to be used for DID calls.

Display

Data No. | TitleD | Setting Data | Page No.

```
55:DID PTN        A|1
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
A	B	C	D
LK 5	LK 6	LK 7	LK 8
E	F	G	H

LK 9	LK 10	LK 11	LK 12
NO			
LK 13	LK 14	LK 15	LK 16

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 5 5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to change page: Recall to move to next page Feature to move to previous page
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-20	DID Digit Length Selection
1-1-21	DID Digit Conversion Assignment
1-1-22	DID Digit Conversion Table

CO/PBX Prepause Time Selection

Synchronous Ringing Selection

System Mode
1
Submode
1
Data No.
59
PC Programming
Alt +BCS

General Description

Use this Memory Block to specify whether or not CO/PBX calls follow Synchronous Ringing.

Display

Data No. | Title | Function No.

```
59:SYNCHRONUS YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
YS	NO		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 5 9 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-51	CO Line Ringing Pattern Selection
1-1-52	PBX Line Ringing Pattern Selection

Notes

1. Synchronous Ringing does not apply to incoming DID calls, off-hook ringing calls, or CO/PBX ring transfer calls.
2. Do not program this Memory Block if YS is assigned.

8-Digit Matching Table Assignment

System Mode
1
Submode
1
Data No.

General Description

Use this Memory Block to assign the outgoing dial digit for Code Restriction (except OCC Dial Digit - Normal Dial). Program this assignment in one of two ways:

a) When the user dials digit(s) and there is a match, the system allows free dialing or denies dialing by disconnecting. Refer to Memory Block 1-1-61 (8-Digit Matching Table to Class

Programming Procedures

4	Operation data includes:

Operation Data	Dial Number	Operation
X	0 ~ 9, *, #	Redial + 7
P	0 and 1	Redial + 8
N	2 ~ 9	Redial + 9
*	*	Redial + *
#	#	Redial + #

5	Press Transfer to write the data and advance to the next dial code. After all dial codes have been entered, press Transfer again.
6	Press Speaker to go back on-line.

Related Programming

Refer to Section 6 - Code Restriction in this chapter.

Notes

1. There are sixteen 8-Digit Matching Tables. Each 8-digit table contains 16 Dial Codes. Each dial code can have eight characters including digits and/or *, #, X, P, or N characters.
2. NANP = North American Numbering Plan.

8-Digit Matching Table to Class Assignment

System Mode
1
Submode
1
Data No.
61
PC Programming
Alt +AC

General Description

Use this Memory Block to program, per Class, each 8-digit Matching Table to allow or deny assignment. Classes 00 and 15 are fixed. Only classes 01~14 can be programmed.

Display

Data No	Title	Class No. 01~14	Table 00~15	Setting Data
61	CLS	01	(00)	= YS

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
NON	YS (Allow)	NO (Deny)	
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 6 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Class 00 and 15 cannot be programmed Class 00 has no restrictions (Allow)

System Speed Dial Override by Class Selection

System Mode
1
Submode
1
Data No.
62
PC Programming
Alt+AC

General Description

Use this Memory Block to specify, per Class, whether or not Class Selection can override System Speed Dial.

Display

```
Data No   Title      Class No. 01~14   Setting Data
 62 : SPDOVR ( 01 ) = YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS (Override)		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 6 2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data and advance to the next class. Repeat Steps 3 and 4 for each class.
5	After data for the last class is entered, press Transfer to write the data.
6	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-18	System Speed Dial Restriction by Tenant

Notes

At system default, all stations are set to Class 00 to allow override for System Speed Dial.

Hold Recall Time Selection (Exclusive)

System Mode
1
Submode
1
Data No.
63
PC Programming

General Description

Use this Memory Block to specify the time for Exclusive Hold Recall. If No Limit is selected, Exclusive Hold Recall is not provided.

Display

Data No	Title	Setting Data

Attendant Add-On Console Transfer/Camp-On Recall Time Selection

System Mode
1
Submode
1
Data No.
64
PC Programming
Alt +BM

General Description

Use this Memory Block to specify the time before a Ring Transfer or Station Camp-On from a station with an Attendant Add-On Console recalls back to the originating station if the call is not answered.

Display

Data No — Title — Setting Data

```
64 : DSS RECL   1.0
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
0.5	1.0	1.5	2.0
LK 5	LK 6	LK 7	LK 8
3.0	5.0	8.0	10.0

The shaded selection is the default. Times are in minutes.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 6 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-11	System Transfer/Camp-On Selection
1-1-12	System Transfer/Camp-On Recall Time Selection
1-6-01	Attendant Add-On Console to Telephone Port Assignment
1-8-08	Class of Service (Station) Feature Selection 2

Notes

1. When a station without an assigned Attendant Add-On Console transfers or camps-on a call to a station that goes unanswered, the call recalls using Memory Block 1-1-12 (Station Transfer/Camp-On Recall Time Selection).
2. Timer is valid only for stations assigned an Attendant Add-On Console in Memory Block 1-6-01 (Attendant Add-On Console to Telephone Port Assignment). The (Transfer) key on the station and the console are both affected.

8-Digit Matching Table to Normal Dial Assignment

System Mode
1
Submode
1
Data No.
66
PC Programming
All +AC

General Description

Use this Memory Block to assign the 8-Digit Matching Table by class for normal dialing as used or unused. If unused is assigned, the system does not check during normal dialing even if Memory Block 1-1-61 (8-Digit Matching Table to Class Assignment) is programmed.

Display

Data No. | Title | Setting Data

66 : NORMAL DIAL | 1

TIME DISPLAY

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
Table 00	Table 01	Table 02	Table 03
LK 5	LK 6	LK 7	LK 8
Table 04	Table 05	Table 06	Table 07

(Page 2)

LK 1	LK 2	LK 3	LK 4
Table 08	Table 09	Table 10	Table 11
LK 5	LK 6	LK 7	LK 8
Table 12	Table 13	Table 14	Table 15

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 6 6 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change data option. **Default Values**

8-Digit Matching Table to OCC Table Assignment

System Mode
1
Submode
1
Data No.
68
PC Programming
Alt +AC

General Description

Use this Memory Block to assign each 8-Digit Matching Table to each Other Common Carrier (OCC) Code Table.

Display

Data No. | Title | OCC Table 01~16 | Function No.

```
68:8DG OCC(01)|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
Table 01	Table 02	Table 03	Table 04

Tie Line Code Restriction Assignment

System Mode
1
Submode
1
Data No.
69
PC Programming
Alt+AC

General Description

Use this Memory Block to restrict outgoing Tie line dialed digits.

Display

Data No. | Title | Setting Data

```
69:TIE REST    =YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + 6 9 to access the Memory Block.	
3	Press the corresponding CO/PBX line key to change data option.	**Default Values** Restriction
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

Refer to Section 6 Code Restriction in this chapter.

Notes

When Tie lines are assigned code restriction, the Access Code used to dial out of the distant system must be entered in front of the dialed number in the 8-Digit Matching Tables.

Code Restriction Class Assignment when Lockout is Set

System Mode
1
Submode
1
Data No.
70
PC Programming
Alt +AC

General Description

Use this Memory Block to assign the Code Restriction Class when a station user sets the Station Outgoing Lockout or when the Attendant sets Attendant Station Outgoing Lockout.

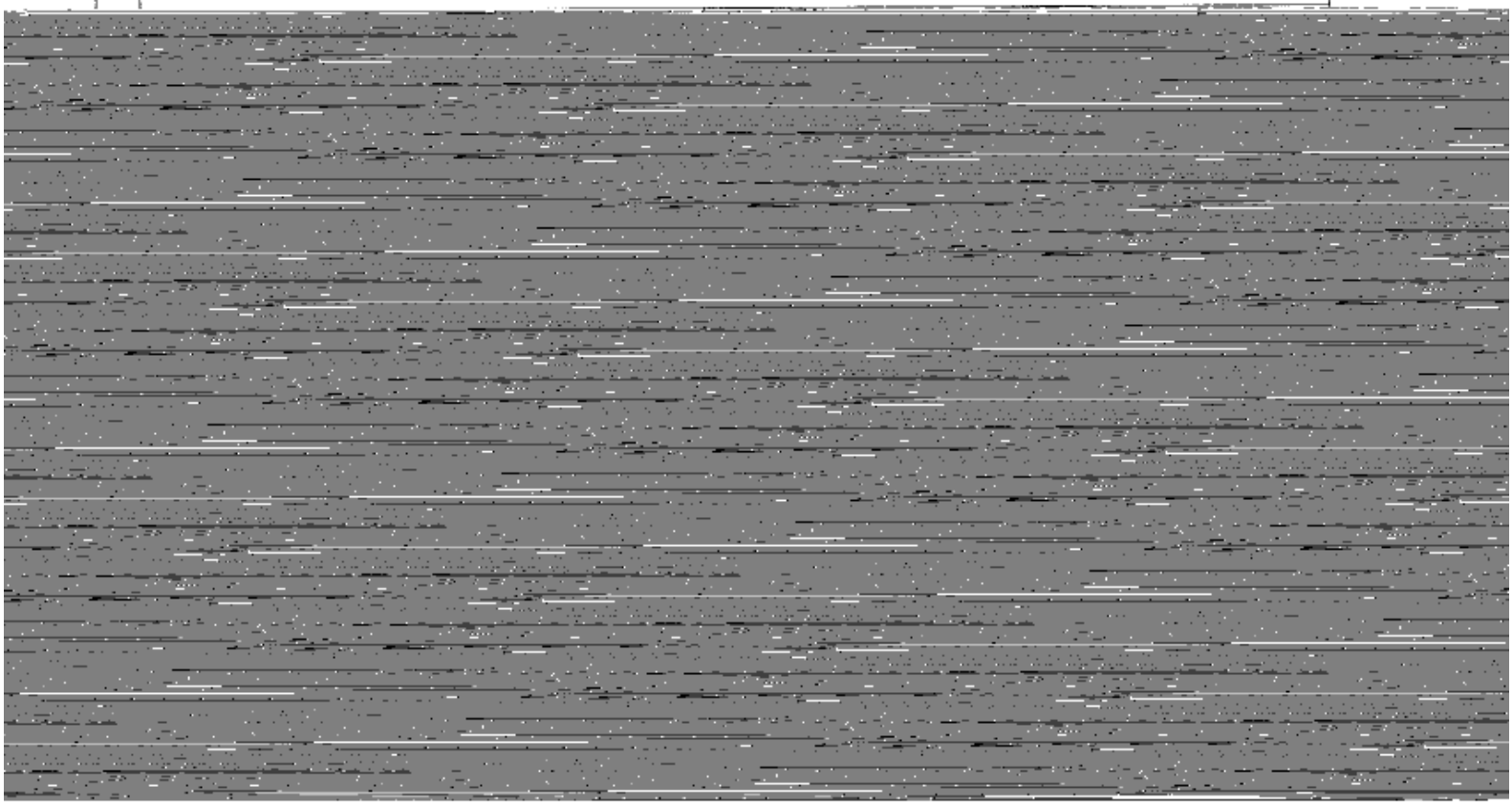
Display

Data No. | Title | Setting Data

```
70:REST CLASS=15
TIME DISPLAY
```

Programming Procedures

1	Go off-line.



First Delay Announcement Start Time Selection

System Mode
1
Submode
1
Data No.
71
PC Programming
All +AR

General Description

Use this Memory Block to specify the time between receiving a CO call and sending a First Delay Announcement to the calling party.

Display

Data No. | Title | Setting Data

```
71:MSG START=20
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
00	10	20	30
LK 5	LK 6	LK 7	LK 8
40	50	60	

The shaded selection is the default. Times are in seconds.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 7 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-72	First Delay Announcement Repeat Selection
1-8-13	VRS Message Function Assignment
3-41	Delay Announcement Assignment

Notes

This Memory Block does not display unless the MIFA-U10 ETU is installed.

First Delay Announcement Repeat Selection

System Mode
1

Submode
1

Data No.
72

PC Programming
Alt +AR

General Description

Use this Memory Block to specify the number of times a First Delay Announcement is repeated.

Display

Data No. | Title | Setting Data

```
72:MSG1 SEND=1
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
1	2	3	4
LK 5	LK 6	LK 7	LK 8
5	6	7	8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 7 2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.

Second Delay Announcement Repeat Selection

System Mode
1
Submode
1
Data No.
74
PC Programming
Alt +AR

General Description

Use this Memory Block to specify the number of times a Second Delay Announcement is repeated.

Display

Data No. | Title | Setting Data

```
74:MSG2 SEND=1
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
1	2	3	4
LK 5	LK 6	LK 7	LK 8
5	6	7	8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 7 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.

Barge-In Alert Tone Assignment

System Mode
1
Submode
1
Data No.
76
PC Programming
Alt +BTS

General Description

Use this Memory Block to specify whether or not Barge-In Alert Tone is allowed.

Display

Data No. | Title | Setting Data

```
76:ALERT TONE=YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
YS	NO		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 7 6 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name

Caller ID Display Assignment for System Mode

System Mode
1
Submode
1
Data No.
78
PC Programming
Alt +AI

General Description

Use this Memory Block to assign up to 15 Multiline Terminals to display Caller ID Indication for normal incoming CO/PBX calls or CO/PBX calls ringing a Call Arrival (CAR) key.

Display

Data No. | Title | Entry No. 01~15 | Tel Port No. (00~99 A0~A9 B0~B9 C0)

```
78:CALLID    01=00
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + 7 8 to access the Memory Block.	
3	Use the dial pad to enter Entry No. 01 and Tel Port No. ☞ Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter numeric data	**Default Values** Not specified
4	Press Transfer to write the data and advance to the next Entry No. After each tel port No. is selected, press Transfer again. A total of 15 entries can be made.	
5	Press Speaker to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. To display Caller ID Indication for normal incoming and CAR incoming calls, Caller ID Indication and Ring Assignment must be assigned for the terminal in system programming.

ISDN DTMF Duration/Interdigit Selection

System Mode
1
Submode
1
Data No.
80
PC Programming
Alt +AN

General Description

Use this Memory Block to specify tone duration/interdigit time of Dual-Tone Multifrequency (DTMF) signals for the ISDN trunk.

Display

Data No. | Title | Setting Data

```
80 : MF   =  100/70
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
70/60	100/70	400/100	600/100
LK 5	LK 6	LK 7	LK 8
900/200			

The shaded selection is the default. Times are in milliseconds.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK1 + 8 0 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-92	Trunk (Installed, DP/DTMF) Selection

ISDN Dial Interval Time Selection

System Mode

1

General Description

CO Feature Code Service for Code Restriction

System Mode	Submode	Data No.	PC Programming
1	1	82	Alt +AC

General Description

Use this Memory Block to define a code to send to the CO in front of the dialed number to allow completion of a CO call made to a Code restricted number set to allow or denies the call for a code restricted number set to deny.

Display

Data No.	Code Table 01~10	Setting Data
82 :	01 =	

TIME DISPLAY

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK1 + 8 2 to access the Memory Block.	
3	Use the dial pad to enter the CO No. ☞ Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter numeric data	**Default Values** Not specified
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

Example: Set Code Table 01 to *67

If Tel 100 dials Access Code **9**, Feature Code ***67** Telephone Number **12147517000** to access a line that is code restricted, the code restriction starts at 12147517000. If code restriction is set to allow, the 1214 matches and the call goes through. If Code restriction is deny, the 1214 matches and user receives a reorder tone and ERROR is displayed on telephones equipped with a display.

Internal Paging Timeout Selection

System Mode
1
Submode
2
Data No.
00
PC Programming
Alt+BP

General Description

Use this Memory Block to specify the time allowed for paging.

Display

Data No. | Title | Setting Data

00 : PAGING 90 s

TIME DISPLAY

Settings

Automatic Callback Release Time Selection

System Mode
1
Submode
2
Data No.
02
PC Programming
Alt +BM

General Description

Use this Memory Block to specify the time allowed for an automatic callback before the request is automatically canceled.

Display

Data No. | Title | Setting Data

```
02:CALL BACK 30m
TIME DISPLAY
```

Call Arrival Key Block Assignment

System Mode
1
Submode
2
Data No.
04
PC Programming
Alt +BK

General Description

Use this Memory Block to specify the number of Call Arrival keys that can be used in the system.

Display

Data No. | Title | Setting Data

```
04:CAR ASSIGN|01
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
Port 01~04	Port 05~08	Port 09~12	Port 13~16
LK 5	LK 6	LK 7	LK 8
Port 17~20	Port 21~24	Port 25~28	Port 29~32

(Page 2)

LK 1	LK 2	LK 3	LK 4
Port 33~36	Port 37~40	Port 41~44	Port 45~48
LK 5	LK 6	LK 7	LK 8
Port 49~52	Port 53~56	Port 57~60	Port 61~64

(Page 3)

LK 1	LK 2	LK 3	LK 4

No Call Arrival Key Blocks are assigned.

Specified Station Access Code Assignment

System Mode
1
Submode
2
Data No.
08
PC Programming
Alt +BA

General Description

Use this Memory Block to assign specific stations to be called using abbreviated dialing. Up to 24 stations can be assigned.

Display

Data No. | Title | Specified Station Access Code 00~23 | Tel. Port 01~99 A0~A9 B0~B9 C0

```
08 : S P C L   E X T 0 0 = 0 1
T I M E   D I S P L A Y
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK2 + (0 prog) (0 Title) to access the Memory Block.
3	Enter the options using the dial pad. ☞ Use the following to enter data: (#) to move the cursor left (*) to move the cursor right (Hold) to clear data Setting data: Tel. Port No. 01~120 Specified Station Access Code is 00~23
4	Press (Transfer) to display the Tel. Port No. 01.
5	After entering the Specified Station No. Access Code, press (Transfer) to advance to the next Station No.
6	Press (Transfer) to write the data.
7	Press (Speaker) to go back on-line.

Default Values

Access Code No.	Value
00	01
01-23	Not Set

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
1-1-47	Access Code (2-Digit) Assignment
1-4-14	Automated Attendant Message Access Code (1-Digit) Assignment
1-4-15	Automated Attendant Message Access Code (2-Digit) Assignment

Intercom Ring Pattern Selection

System Mode
1
Submode
2
Data No.
19
PC Programming
Alt +BI

General Description

Use this Memory Block to select a ring pattern or turn the tone ON/OFF when intercom calls are made.

Display

Data No. | Title | Setting Data | Page

```
19 : ICM PTN      B | 1
TIME DISPLAY
```

Settings
(Page 1)

LK 1	LK 2	LK 3	LK 4
OFF	ON	A	B
LK 5	LK 6	LK 7	LK 8

Intercom Ring Tone Selection

System Mode
1
Submode
2
Data No.
20
PC Programming
Alt +BI

General Description

Use this Memory Block to select a ring tone for intercom calls.

Display

Data No. | Title | Setting Data

```
20 : ICM TONE      A
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
A	B	C	D
LK 5	LK 6	LK 7	LK 8
E	F	G	H

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK2 + 2 abc 0 oper to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

The available tones are:

Tone A = (480/600):	Modulation (16 Hz)
Tone B = (480/606):	Modulation (8 Hz)
Tone C = (1024/1285)	
Tone D = (1024)	
Tone E = (500)	
Tone F = (1024/1285):	Modulation (16 Hz)
Tone G = (600/700):	Modulation (16 Hz)
Tone H = (1024)	Envelope 2 sec.

System Call Park Recall Time Selection

System Mode
1
Submode
2
Data No.
23
PC Programming
Alt +BM

General Description

Use this Memory Block to specify the time before a CO/PBX call recalls back to a station from Call Park.

Display

Data No. | Title | Setting Data

```
23:PARK RECL 1.0
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
0.5	1.0	1.5	2.0
LK 5	LK 6	LK 7	LK 8
3.0	5.0	8.0	10.0

The shaded selection is the default. Times are in minutes.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK2 + 2 3 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Intercom Feature Access Code Assignment

System Mode
1
Submode
2
Data No.
24
PC Programming

General Description

Use this Memory Block to assign the Access Code for Voice/Tone change or Step Call.

Display

Data No. | Title | Dial No. | Setting Data

Internal Paging Alert Tone Selection

System Mode
1
Submode
2
Data No.
25
PC Programming
Alt +BP

General Description

Use this Memory Block to specify whether or not a call alert tone is provided when Internal Paging is used.

Display

Data No. | Title | Setting Data

```
25:IN PG TON  YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
YS	NO		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

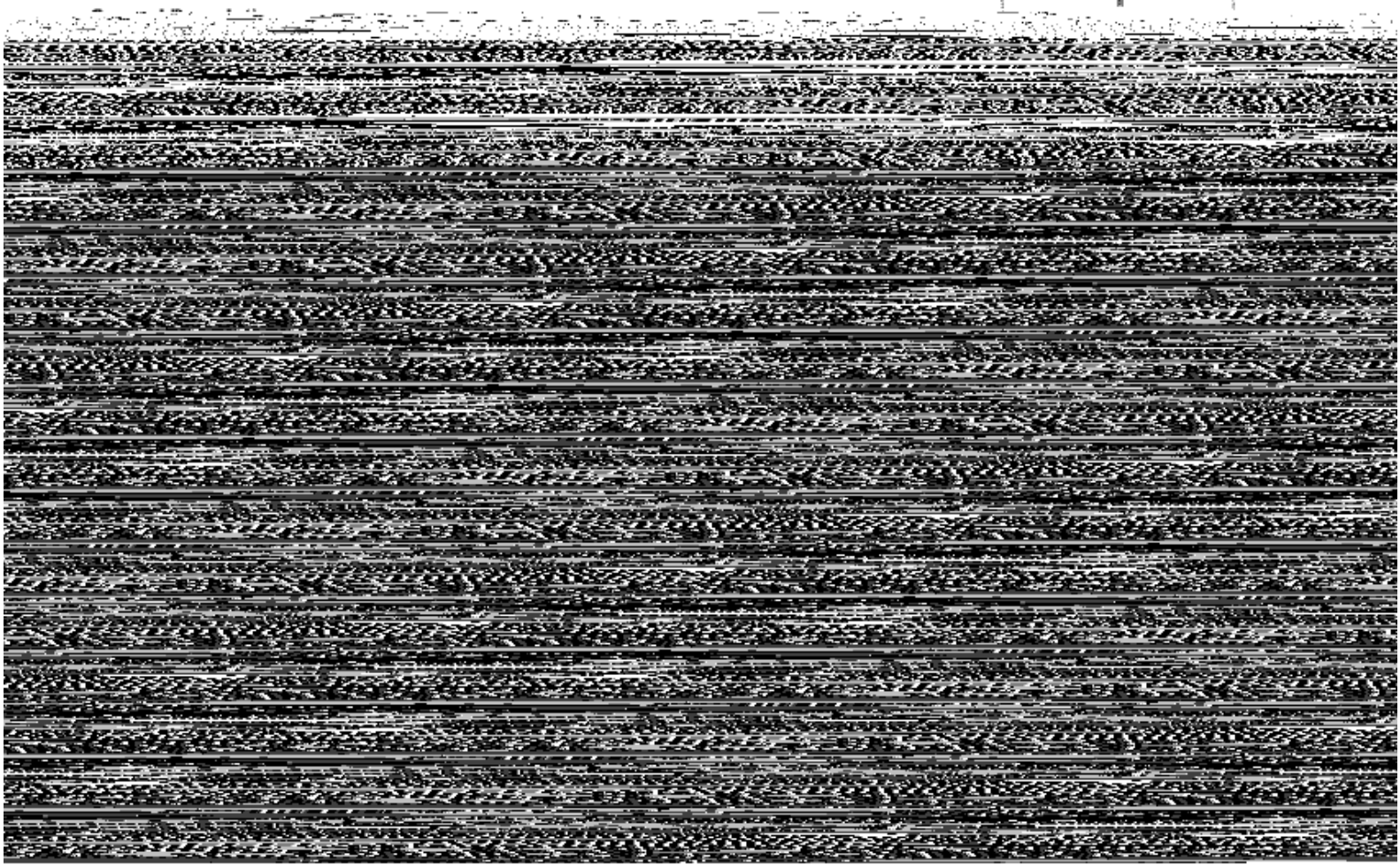
1	Go off-line.
2	Press LK1 + LK2 + 2 5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Delayed Ringing Time Assignment (ICM)

System Mode
1



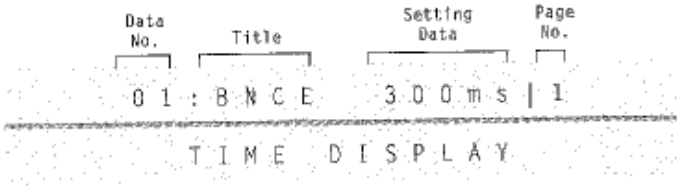
Bounce Protect Time Selection

System Mode
1
Submode
3
Data No.
01
PC Programming
Alt+BTI

General Description

Use this Memory Block to specify a time for detection of a valid Off-hook that is long enough to prevent an unintentional bounce of the receiver from being detected as a new off-hook indication from a Single Line Telephone or Voice Mail system.

Display



Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
0ms	100ms	200ms	300ms
LK 5	LK 6	LK 7	LK 8
400ms	500ms	600ms	700ms

(Page 2)

LK 1	LK 2	LK 3	LK 4
800ms	900ms	1000ms	1100ms
LK 5	LK 6	LK 7	LK 8
1200ms	1300ms	1400ms	1500ms

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK3 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-3-05	Hookflash Start Time Selection

SLT Hookflash Signal Selection

System Mode
1
Submode
3
Data No.
02
PC Programming
All +BTI

General Description

Use this Memory Block to specify whether a line is held internally, or if behind a PBX, a hookflash (HF) signal is sent to the line when a Single Line Telephone user performs a hookflash.

Display

Data No. | Title | Setting Data

```
02:SIGNAL HOLD
TIME DISPLAY
```

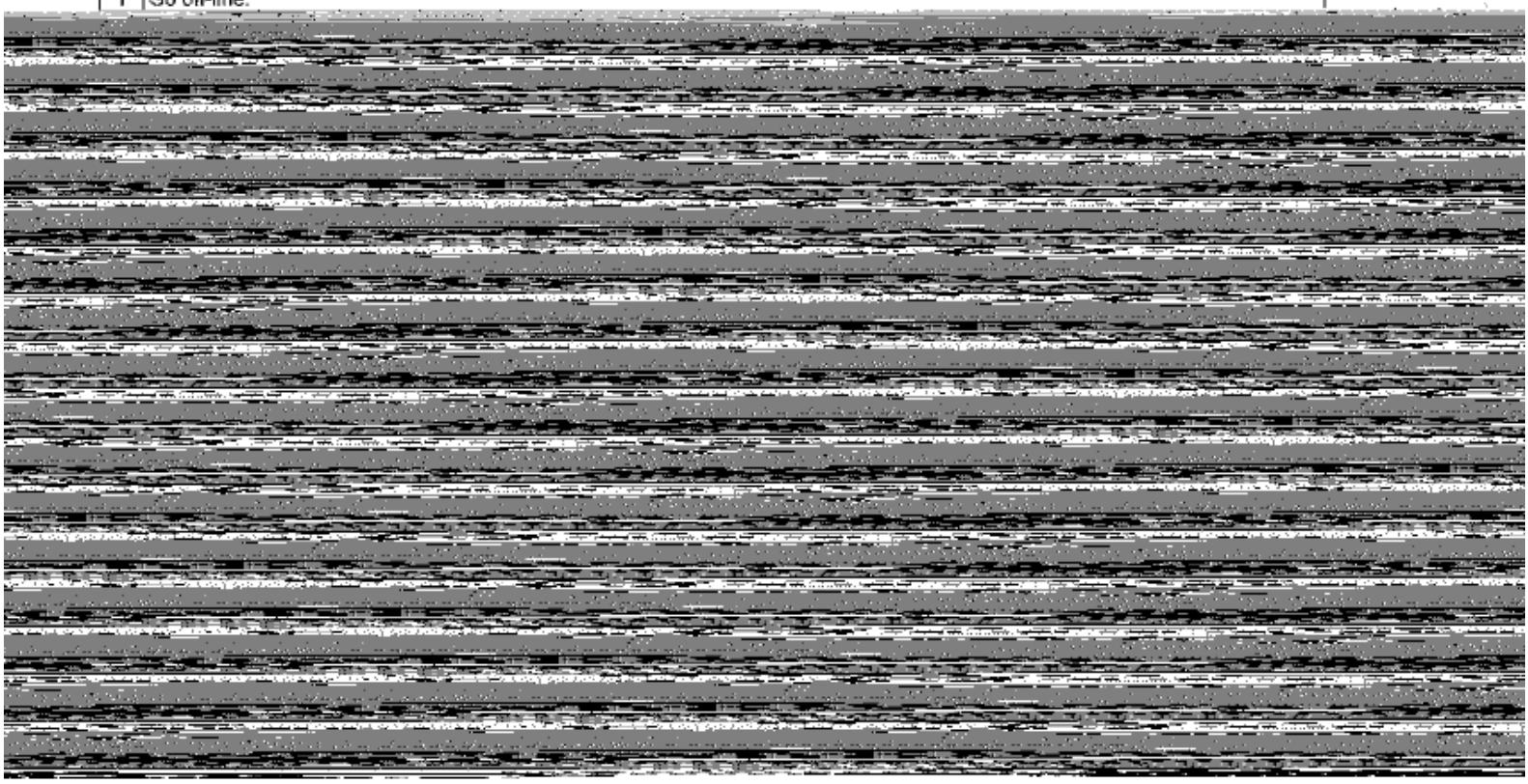
Settings

LK 1	LK 2	LK 3	LK 4
HOLD	FLASH		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.



Dial 1 (DP) Hookflash Selection

System Mode
1
Submode
3
Data No.
04
PC Programming
Alt +BTI

General Description

Use this Memory Block to specify whether or not a dial pulse (DP) Single Line Telephone provides a hookflash signal if the user presses 1 during an intercom or CO/PBX call.

Display

Data No. | Title | Setting Data

```
04:DIAL1FLSH   YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
YS	NO		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK3 + 0 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Hookflash End Time Selection

System Mode
1
Submode
3
Data No.
06
PC Programming
Alt+BTI

General Description

Use this Memory Block to specify the maximum hookflash duration from a Single Line Telephone to receive a second dial tone.

Display

Data No. | Title | Setting Data | Page No.

```
06 : FLSH END = 07 | 1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
00 (HST + 0 ms.)	01 (HST + 100 ms.)	02 (HST + 200 ms.)	03 (HST + 300 ms.)
LK 5	LK 6	LK 7	LK 8
04 (HST + 400 ms.)	05 (HST + 500 ms.)	06 (HST + 600 ms.)	07 (HST + 700 ms.)

(Page 2)

LK 1	LK 2	LK 3	LK 4
08 (HST + 800 ms.)	09 (HST + 900 ms.)	10 (HST + 1000 ms.)	11 (HST + 1100 ms.)
LK 5	LK 6	LK 7	LK 8
12 (HST + 1200 ms.)	13 (HST + 1300 ms.)	14 (HST + 1400 ms.)	15 (HST + 1500 ms.)

The shaded selection is the default.

HST = Hookflash Start Time

Programming Procedures

1	Go off-line.
2	Press LK1 + LK3 + 0 6 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.

Voice Mail DTMF Delay Time Selection

System Mode
1
Submode
3
Data No.
08
PC Programming
Alt +AV

General Description

Use this Memory Block to specify the delay time before dual-tone multifrequency (DTMF) tones are sent from Voice Mail Interface (VMI) ports.

Display

Data No. — Title — Setting Data

```
08 : VM DELAY - 1s
```

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
0s	1s	2s	3s
LK 5	LK 6	LK 7	LK 8
4s	5s	6s	8s

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK3 + 0 8 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
4-35	Voice Mail/SLT Selection

Notes

This Memory Block applies to both digital voice mail and analog voice mail ports.

Voice Mail Disconnect Time Selection

System Mode
1
Submode
3

General Description

Use this Memory Block to specify the time a disconnect signal is sent to the voice mail equipment.

Voice Mail DTMF Duration/Interdigit Time Selection

System Mode
1
Submode
3
Data No.
10
PC Programming
Alt +AV

General Description

Use this Memory Block to specify dual-tone multifrequency (DTMF) duration and interdigit time for voice mail.

Display

Data No. | Title | Setting Data

```
10:VM MF=110/80
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
60/70	110/80	410/100	610/100
LK 5	LK 6	LK 7	LK 8
810/190			

The shaded selection is the default for Duration and Interdigit Time. Times are in milliseconds.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK3 + 1 0 to access the Memory Block.	
3	Press the corresponding CO/PBX key to change data option.	**Default Values** Duration time: 110 ms. Interdigit Time: 80 ms.
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
4-35	Voice Mail/SLT Selection

Tandem Transfer Automatic Disconnect Time Selection

System Mode
1
Submode
4
Data No.
00
PC Programming
Alt +AT

General Description

Use this Memory Block to specify maximum time, in minutes, before the system automatically disconnects a Trunk-to-Trunk connection.

Display

Data No. | Title | Setting Data

04 : AUTO DIS 060

TIME DISPLAY

Display

Programming Procedures

1	Go off-line.
2	Press LK1 + LK4 to access the Memory Block.
3	Use the dial pad to enter data. ☞ Use the following to enter data: 0 ~ 9 to enter numeric data * to move cursor left # to move the cursor right Setting Data: 001~999 Minutes 000 No Limit Hold : Data Clear
4	Press Transfer to write the data.
5	Press Station to go back on line.

Automated Attendant Transfer Delayed Ringing Time Selection

System Mode
1
Submode
4
Data No.
02
PC Programming
Alt +AU

General Description

Use this Memory Block to specify the time that a call is ringing at the destination station before the automated attendant rings a predetermined station.

Display

Data No. | Title | Setting Data

```
02 : AA DLYRNG ∞
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
10s	20s	30s	∞ (No Limit)
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK4 + * 2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
4-01	CO/PBX Ring Assignment (Day Mode)

Automated Attendant No Answer Disconnect Time Selection

System Mode
1
Submode
4
Data No.
03
PC Programming
Alt+AU

General Description

Use this Memory Block to specify the time the Automated Attendant rings a station before the caller is automatically disconnected.

Display

Data No. | Title | Setting Data

03 : AA DIS 2 m

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
1m	2m	3m	4m
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK4 + * 3 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

Refer to Chapter 2 Guide to Feature Programming.

Notes

If the called party does not answer in the predetermined time, the call is dropped.

Automatic Tandem Trunk by Night Mode Selection

System Mode
1
Submode
4
Data No.
05
PC Programming
Alt +AT

General Description

Use this Memory Block to specify whether or not the Automatic Trunk-to-Trunk Transfer feature follows the Night Mode assignment.

Display

Data No. | Title | Setting Data

```
05:TAND BY NT NO
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK4 + (*) (5) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-27	Automatic Day/Night Mode Switching Time Assignment
1-1-33	Speed Dial Number/Name Display Selection
3-05	Trunk Incoming Answer Mode Selection
3-06	Automatic Tandem Trunk Assignment

Automated Attendant PRR Timeout Response

Automated Attendant PBR Start Time Selection

System Mode
1
Submode
4
Data No.
09
PC Programming
Alt+AU

General Description

Use this Memory Block to specify whether the Push Button Receiver (PBR) can receive dual-tone multifrequency (DTMF) signaling while the Automated Attendant is sending the message or after the message is complete.

Display

Data No. | Title | Setting Data

```
09:PBR STRT        FR
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
FR	AF		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK4 + (*) (9) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. Setting Data: FR: While the Automated Attendant sends the message. AF: After the Automated Attendant sends the message.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

Refer to Chapter 2 Guide to Feature Programming.

Notes

When FR is assigned, the Automated Attendant message send start time and the PBR connected to Automated Attendant trunk start time are the same.

Automated Attendant Answer Delay Time Assignment

System Mode
1
Submode
4
Data No.
13

General Description

Use this Memory Block to specify the time, in seconds, before the Automated Attendant answers an incoming CO/PBX call.

Display

Notes

1. Function 011 (Bypass Automated Attendant) uses Memory Blocks 4-01 [CO/PBX Ring Assignment (Day Mode)] and 4-02 [CO/PBX Ring Assignment (Night Mode)] to ring according to those assignments.
2. If a caller receives a busy signal after being transferred by the Automated Attendant, the following Fixed Access Codes apply:

   - (1) Step Call
   - (*) Receive a second dial tone
   - (#) CO rings based on Day/Night Ring Assignment

Function Codes

Function Code	Contents	Function Code	Contents

Automated Attendant Message Access Code (2-Digit) Assignment

System Mode
1
Submode
4
Data No.
15
PC Programming
Alt +AU

General Description

Use this Memory Block to specify a 2-digit code to route an incoming call from the Automated Attendant.

Display

```
                    A.A.
                    Msg.
Data                No.          Dial.   Function
No.       Title     (1~8)        No.     Code

15 : AA   AC1 - 00 = 030

TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK4 + (*) (*) (1) (5) to access the Memory Block.
3	Use the dial pad to enter data. ☞ The following are used when entering data: (0) ~ (8) to enter Automated Attendant message number (0) (0) ~ (9) (9) to enter dial number
4	Enter Setting Data. Press (Transfer) to write the data and to advance the Dial Number.
5	After all data is entered, press (Transfer) to write the data.
6	Press (Speaker) to go back on-line.

Default Values

Dial No.	Funct. Code	Contents
00 ~ 50	030	Specified Station Call (0)
51	011	Bypass Automated Attendant
52	015	Paging Zone A Call
53	016	Paging Zone B Call
54	017	Paging Zone C Call
55 ~ 99	000	Not Used

Related Programming

Refer to Chapter 2 Guide to Feature Programming.

Automated Attendant Delay Announcement Hold Tone Selection

System Mode
1
Submode
4
Data No.
17
PC Programming
Alt +AU

General Description

Use this Memory Block to specify the tone that is sent to the outside party after the Automated Attendant Delay Announcements are played.

Display

Data No. | Title | Setting Data

```
17 : AA HOLD      RBT
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
RBT	MOH		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK4 + (*) (*) (1) (2 ABC) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. **Example**: To change Ringback tone to Music On Hold, press CO/PBX LK2.
4	Press (Transfer) to write the data and advance to Memory Block 1-4-18 (Automated Attendant Delay Announcement Assignment).
5	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-4-18	Automated Attendant Delay Announcement Assignment
1-4-19	Automated Attendant 1st to 2nd Delay Announcement Interval Time Selection
1-4-20	Automated Attendant Delay Announcement Disconnect Time Selection

Automated Attendant Delay Announcement Assignment

System Mode
1
Submode

General Description

Automated Attendant 1st to 2nd Delay Announcement Interval Time Selection

System Mode
1
Submode
4
Data No.
19
PC Programming
[Alt] + AU

General Description

Use this Memory Block to specify the time, in seconds or minutes, between the Automated Attendant Delay Announcement messages.

Display

Data No. | Title | Setting Data

```
19:1ST INTR 4m|1
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
0s	10s	20s	30s
LK 5	LK 6	LK 7	LK 8
1m	2m	3m	4m
LK9	LK10	LK11	LK12
5m	10m	20m	

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK4 + (#) (*) (1) (9) to access the Memory Block.	
3	Press the corresponding CO/PBX line key to change the data option. **Example**: To change 4 minutes to 10 seconds, press CO/PBX LK2.	**Default Values** 4 minutes
4	Press (Transfer) to write the selected data and advance to Memory Block 1-4-20 (Automated Attendant Delay Announcement Disconnect Timer Selection).	
5	Press (Speaker) to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-4-18	Automated Attendant Delay Announcement Assignment
1-4-20	Automated Attendant Delay Announcement Disconnect Time Selection

Automated Attendant Delay Announcement

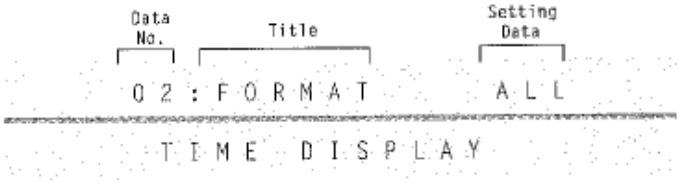
SMDR Print Format

System Mode
1
Submode
5
Data No.
02
PC Programming
Alt +AS

General Description

Use this Memory Block to specify whether or not all digits are printed. If ALL is specified, all digits are printed. If MSK is specified, the last four digits are masked and printed as XXXX.

Display



Settings

LK 1	LK 2	LK 3	LK 4
ALL	MSK		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-5-13	Printer Connected Selection

Printer Connected Selection

System Mode	Submode	Data No.	PC Programming
1	5	13	[illegible]

General Description

Use this Memory Block to program printer connection. If the printer is not connected to the system, an alarm sounds at stations connected to Ports 01 and 02.

Display

Data No.	Title	Setting Data
13	PRINTER	NO

Notes

Example: Settings to specify the format of communication data output to the printer.

✆ Line Feed control in effect.

07/03/92 09:00 08-05-12 OG 123

00:15:32 102885167537000 LCR FWD234

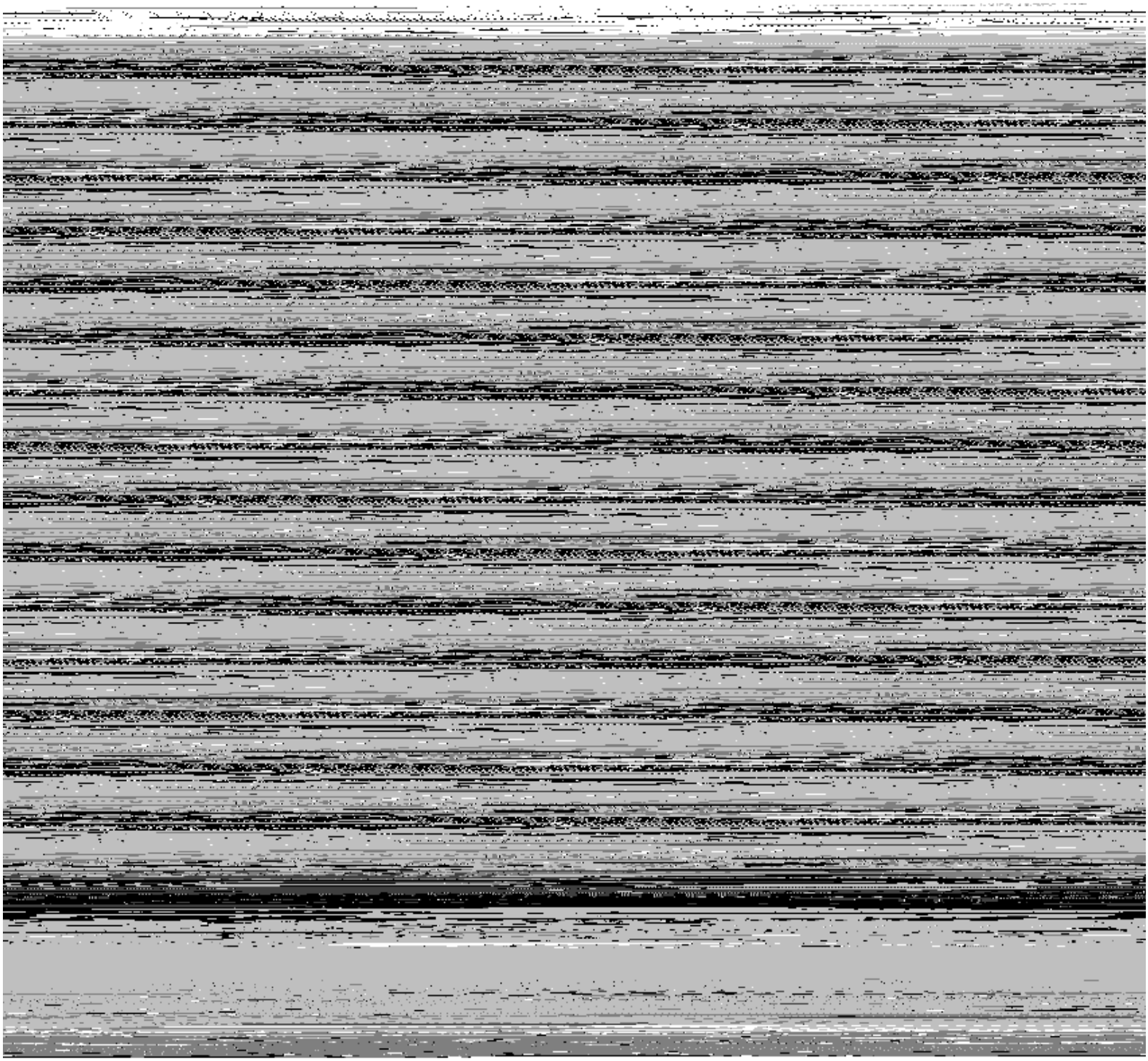
12345678

✆ No Line Feed control.

07/03/92 09:00 08-05-12 OG 123 00:15:32 10288516753700 LCR IWD234

12345678

(No Limit)



SMDR Incoming/Outgoing Print Selection

System Mode
1
Submode
5
Data No.
26
PC Programming
Alt +AS

General Description

Use this Memory Block to specify the call records to be output from the Station Message Detail Recording (SMDR): OUT = print outgoing call records only, INC = print incoming call records only, ALL = print incoming and outgoing call records.

Display

Data No. | Title | Setting Data

```
26:PRINT MOD=OUT
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
ALL	OUT	INC	
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK5 + (2) (6) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-5-13	Printer Connected Selection

Attendant Add-On Console to Telephone Port Assignment

System Mode
1
Submode
6
Data No.
01
PC Programming
Alt +BTD

General Description

Use this Memory Block to assign an Attendant Add-On Console to a telephone port number.

Display

```
Data No.   Title   DSS No. 1~4   Data Setting
 01 : DSS   1 = P      01
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK6 to access this Memory Block.
3	Use the dial pad to enter the data.

DSS Call Voice/Tone Signal Selection

System Mode
1
Submode
6
Data No.
03
PC Programming
Alt +BTD

General Description

Use this Memory Block to specify whether Voice or Tone signaling is to be used first when calling an extension from an Attendant Add-On Console.

Display

Data No. — Setting Data

```
03:VOICE  CALL
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
TONE	VOICE		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK6.
3	Use (*) to move cursor to the second Data No. position, and press (3) to access the Memory Block.
4	Press the corresponding CO/PBX line key to change the data option.
5	Press (Transfer) to write the data.
6	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-6-01	Attendant Add-On Console to Telephone Port Assignment

Notes

1. To switch Voice/Tone signaling, dial 1 from a station.
2. If tone signaling is programmed in this Memory Block, the called party cannot answer handsfree unless the Direct Station Select (DSS) station user dials 1 to switch it to Voice.

Attendant Add-On Console Key Selection

System Mode
1
Submode
6
Data No.
05
PC Programming
Alt +BTD

General Description

Use this Memory Block to assign functions to the Attendant Add-On Console keys.

Display

Data No.	DSS No. 1~4	Button No. 01~60	Setting Data	Page No.
05 :	1 /	01 =	TEL01	1

TIME DISPLAY

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
NON	TEL01 (01~120)	INT A (Paging Zone)	INT B (Paging Zone)
LK 5	LK 6	LK 7	LK 8
INT C (Paging Zone)	INT ALL (Paging Zones)	EXT A (Paging Zone)	EXT B (Paging Zone)

(Page 2)

LK 1	LK 2	LK 3	LK 4
EXT C (Paging Zone)	EXT ALL (Paging Zones)	MSG (Waiting)	NT MOD (Night Mode)
LK 5	LK 6	LK 7	LK 8
TRF (Transfer)	IN OUT (Attendant Station Outgoing Lockout)		CO (Trunk 01~64)

Shaded area indicates default.

(Page 3)

LK 1	LK 2	LK 3	LK 4
VM (Live Record)	VB (Mail Box)	DPH 1 (Doorphone)	DPH 2 (Doorphone)
LK 5	LK 6	LK 7	LK 8
RELAY 0 (General Purpose)	RELAY 1 (General Purpose)		

Programming Procedures

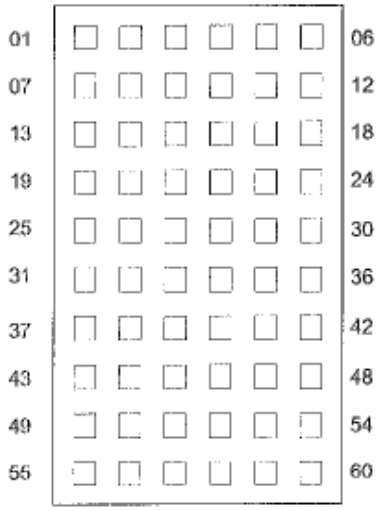
1	Go off-line.
2	Press LK1 + LK6. Use (*) to move cursor to the second Data No. position, and press (5) to access the Memory Block.
3	Press the corresponding CO/PBX line key and dial pad keys to change the data option:

Functions can be assigned to keys 01~60 on Attendant Add-On Consoles 1~4.

Functions to be programmed:

- Station No. 01~120
- Internal Paging Zone A
- Internal Paging Zone B
- Internal Paging Zone C
- Internal Paging Zone ALL
- External Paging Zone A
- External Paging Zone B
- External Paging Zone C
- External Zone Paging ALL
- Message Waiting
- Night Mode Switching
- Trunk (01~64)
- Transfer
- Attendant Station Outgoing Lockout
- Feature Access Key with Live Record
- Digital Voice Mail Mailbox Number
- DPH 1 & 2
- General Purpose Relay 01 and 02

DSS Key Number



Default Values

DSS No.	Key No.	Data Setting
1~4	01	TEL No. 01
	02	TEL No. 02
	≀	≀
	48	TEL. No. 48
	49	Night Mode Switching
	50	Internal Paging Zone A (INT A)
	51	Internal Paging Zone B (INT B)
	52	Internal Paging Zone C (INT C)
	53	All Internal Paging Zone (INT ALL)
	54	Vacant
	55	Message Waiting (MSG)
	56	External Paging Zone A (EXT A)
	57	External Paging Zone B (EXT B)
	58	External Paging Zone C (EXT C)
	59	External Paging Zone All (EXT ALL)
	60	Transfer (TRF)

☞ Use the following to enter data:

- (*) to move the cursor left
- (#) to move the cursor right
- (0) ~ (9) to enter numeric data
- Transfer to write selected data
- Recall to go to the next page
- Feature to go to the previous page

Programming Procedures (Continued)

4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-6-01	Attendant Add-On Console to Telephone Port Assignment
7-2	Telephone Type Assignment

Notes

1. When TEL is assigned to a line key, the red LED is used to determine Station Status.
2. When a function (e. g., Message or Paging) that does not require a green LED is assigned to a two-color LED key, the green LED does not function.
3. Telephone number setting data for telephone sets is determined by the number of installed ESI(8)-U10 ETUs.
4. Message Waiting and Attendant Station Outgoing Lockout cannot be assigned on the same console.
5. NEC recommends that DSS/CO keys be programmed on line keys 1~48 only.
6. The Feature Access key with Live Recording has seven features:

Feature No.	Feature
00	Record Start
01	Record Pause/Restart
02	Record Erase
03	Record Finish
04	Record Erase/Restart
05	Pager
06	Record Confirmation
07	Live Monitoring

Each function can be assigned by dialing the Feature No. using the dial pad after pressing LK1 on page 3.

7. Digital Voice Mail Mailbox Number can be entered using two, three, or four digits of the Mailbox number on the dial pad. This feature is used for Live Record addressing. The Live Record feature must be assigned to a line key on the console also.

Message Board Lamp Assignment

System Mode
1
Submode
6
Data No.
07
PC Programming
Alt +BTB

General Description

Use this Memory Block to assign mailbox numbers to each Message Display Board.

Display

Data No. | Board No. | Lamp No. | Setting Data 1 | Setting Data 2

```
07 :  1 - 01 NON
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NON (Unassigned)	MSG		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK6. Use (*) to move cursor to the second Data No. position, and press (7) to access the Memory Block.
3	Press line key to select Setting Data 1. Use the dial pad to select Setting Data 2. ☞ Use the following to enter data: (*) to move the cursor to the left (#) to move the cursor to the right (0) ~ (9) to enter numeric data Hold to clear all data Setting Data 2: Mailbox No. 2-digits 10 ~ 99 3-digits 100 ~ 999 4-digits 1000 ~ 9999
4	Press Transfer to write the selected data and advance to Memory Block 1-6-08 (Attendant Transfer Selection During Live Record).
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
7-2	Telephone Type Assignment

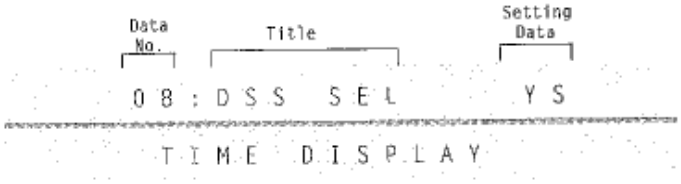
Attendant Transfer Selection During Live Record

System Mode
1
Submode
6
Data No.
08
PC Programming
Alt + BTD

General Description

Use this Memory Block to control the behavior of the Attendant DSS/BLF transfer while the Attendant is engaged in live record. The call is either transferred to the DSS/BLF extension or the voice mail box of the DSS/BLF extension. If YS is selected, the call is transferred to the DSS/BLF extension. If NO is selected, the live record session is addressed to that DSS/BLF extension (no transfer).

Display



Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK6. Use (*) to move cursor to the second Data No. position, and press (8) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press [Transfer] to write the data.
5	Press [Speaker] to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Doorphone Assignment

System Mode
1
Submode
7
Data No.
00
PC Programming
Alt +BTP

General Description

Use this Memory Block to enable the doorphones in System Programming.

Display

Data No. | Title

```
00:DPH ASSIGN
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
DPH1	DPH2	DPH3	DPH4
LK 5	LK 6	LK 7	LK 8

Default not assigned.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK7 to access the Memory Block.
3	Press the CO/PBX line key corresponding to each doorphone. The LED changes to indicate the data each time the CO/PBX line key is pressed.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

CO/PBX Line LED	Off	On
Data	No	Yes

The shaded area is the default setting.

Related Programming

M.B. Number	Memory Block Name
1-7-01	Doorphone Display Time Selection

Doorphone Display Time Selection

System Mode	Submode	Data No.	PC Programming
1	7	01	Alt +BTP

General Description

Use this Memory Block to specify the time, in seconds, a doorphone call signals a station before it times out.

Display

Data No. | Title | Setting Data

01 : DPH TIMER 10s

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
10s	30s	60s	90s
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK7 + 0 7 to access the Memory Block.
3	Press the CO/PBX line key corresponding to the time assignment.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-7-00	Doorphone Assignment

External Speaker Connection Selection

System Mode
1
Submode
7
Data No.
02
PC Programming
Alt +BP

General Description

Use this Memory Block to specify whether or not external speakers are connected to the system.

Display

Data No. | Title

```
02:ESP CONN
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
ESP A	ESP B	ESP C	
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK7+ 0 2 to access the Memory Block.
3	Press the CO/PBX line key corresponding to each ESP Zone. The LED changes to indicate the data each time the CO/PBX line key is pressed.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

CO/PBX Line LED	Off	On
Data	No	Yes

Related Programming

M.B. Number	Memory Block Name
1-7-03	External Paging Alert Tone Selection

Notes

Only three external speaker zones can be connected to the system.

External Paging Alert Tone Selection

System Mode	Submode	Data No.	PC Programming
1	7	03	Alt +BP

General Description

Use this Memory Block to specify whether or not a paging alert tone is sent on External Zone Paging (all speakers/individual speaker).

Display

Data No. | Title | Setting Data

```
03:ESP TONE    YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
YS	NO		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK7 + 0 3 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-7-02	External Speaker Connection Selection
1-7-08	External Speaker Chime Selection

Doorphone Ring Pattern Selection

System Mode
1
Submode
7
Data No.
04
PC Programming
Alt +BTP

General Description

Use this Memory Block to turn doorphone Off/On or specify the doorphone ring pattern. Doorphones can be individually assigned.

Display

Data No. | Title | Setting Data

```
04:DPH1CYCL  ON|1
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
OFF	ON	A	B
LK 5	LK 6	LK 7	LK 8
C	D	E	F

The shaded selection is the default.

LK 1	LK 2	LK 3	LK 4
G	H		
LK 5	LK 6	LK 7	LK 8

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK7+ (0) (4) to access the Memory Block.	
3	Press the corresponding CO/PBX line key to change the data option.	**Default Values** All doorphones are LK2
4	Press (Transfer) to write the data.	
5	Press (Speaker) to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-7-00	Doorphone Assignment
1-7-05	Doorphone Ringing Frequency Selection
4-03	Doorphone Chime Assignment (Day Mode)
4-04	Doorphone Chime Assignment (Night Mode)

The Doorphone Ring Patterns are shown in the table below:

s= seconds

Pattern	Line Key	0s 1s 2s 3s 4s 5s 6s
Tone Off	LK 1	
Tone On	LK 2	
A	LK 3	
B	LK 4	
C	LK 5	
D	LK 6	
E	LK 7	
F	LK 8	
G	LK 1 (Pg. 2)	
H	LK 2 (Pg. 2)	

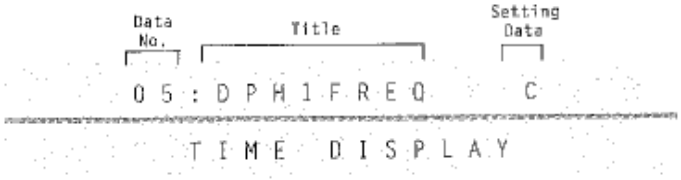
Doorphone Ringing Frequency Selection

System Mode
1
Submode
7
Data No.
05
PC Programming
Alt +BTP

General Description

Use this Memory Block to specify the doorphone ringing frequency. Doorphones can be individually assigned.

Display



Settings

LK 1	LK 2	LK 3	LK 4
A	B	C	D
LK 5	LK 6	LK 7	LK 8
E	F	G	H

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK7+ 0 5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. The available tones are:
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Tone	Frequency
Tone A	480/600 (Modulation - 16 Hz)
Tone B	480/606 (Modulation - 8 Hz)
Tone C	1024/1285
Tone D	1024
Tone E	500
Tone F	1024/1285 (Modulation - 16 Hz)
Tone G	600/700 (Modulation - 16 Hz)
Tone H	1024 (Envelope - 2 sec.)

Related Programming

M.B. Number	Memory Block Name
1-7-00	Doorphone Assignment
1-7-04	Doorphone Ringing Pattern Selection
4-03	Doorphone Chime Assignment (Day Mode)
4-04	Doorphone Chime Assignment (Night Mode)

External Paging Timeout Selection

System Mode	Submode	Data No.	PC Programming
1	7	06	Alt +BP

General Description

Use this Memory Block to specify the time allowed for External Paging before timeout and release of the paging circuit.

Display

Data No. | Title | Setting Data

```
06:ESP TIMER 5.0
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
0.5	1.0	1.5	2.0
LK 5	LK 6	LK 7	LK 8
3.0	5.0	8.0	∞ (No Limit)

The shaded selection is the default. Times are in minutes.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK7+ 0 6 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-2-00	Internal Paging Timeout Selection
1-7-02	External Speaker Connection Selection

External Ring Relay Pattern Selection

System Mode
1
Submode
7
Data No.
07
PC Programming
Alt +BP

General Description

Use this Memory Block to assign a distinctive ringing control/interval to relay circuits.

Display

Data No. | Title | Ext Ring Relay (1~4) | Setting Data

```
07:EXT RING1-PT3
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
PT1	PT2	PT3	PT4
LK 5	LK 6	LK 7	LK 8
PT5	PT6	PT7 (Continuous	

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press L1 + LK7 + 0 7 to access the Memory Block.
3	Press corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

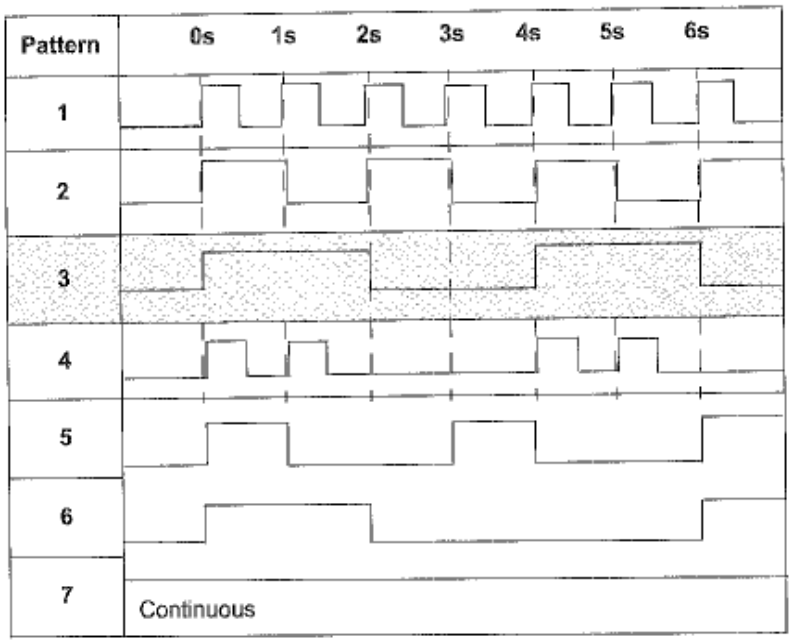
Related Programming

M.B. Number	Memory Block Name
1-2-00	Internal Paging Timeout Selection
1-7-02	External Speaker Connection Selection
2-08	ECR Relay to Tenant Assignment

Notes

An External Tone relay or the Night Chime relay must be assigned in Memory Block 2-08 (ECR Relay to Tenant Assignment) before the tone is generated from JK1.

s= seconds



External Speaker Chime Selection

System Mode
1
Submode
7
Data No.
08
PC Programming
Alt +BP

General Description

Use this Memory Block to specify whether a normal paging alert tone (4 tones) sounds before the speech path is established, a chime sounds at the start of the call, or a chime sounds at the start and end of the call.

Display

Data No. | Title | Setting Data

```
08:SPK ON      PRT
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
PRT	C-S	C-B	
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

PRT = Normal Paging Tone Before the Page

C-S = Chime - Start Only (4 Tone Chime)

C-B = Chime - Both Start and End (4 Tone Chime)

Programming Procedures

1	Go off-line.
2	Press LK1 + LK7+ 0 8 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-7-03	External Page Alert Tone Selection
1-7-09	External Speaker Chime Start Time Selection

Notes

Memory Block 1-7-03 (External Paging Alert Zone Selection) must be enabled for this Memory Block to function.

External Speaker Chime Start Time Selection

System Mode
1
Submode
7
Data No.
09
PC Programming
Alt +BP

General Description

Use this Memory Block only when paging alert tone (4 tones) is assigned in Memory Block 1-7-08 (External Speaker Chime Selection). This Memory Block specifies the delay time (in milliseconds) between when an external paging code is dialed and when the paging alert tone is provided.

Display

Data No. | Title | Setting Data

```
09 : START - 700|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
000	100	200	300
LK 5	LK 6	LK 7	LK 8
400	500	600	700

(Page 2)

LK 1	LK 2	LK 3	LK 4
800	900	1000	1100
LK 5	LK 6	LK 7	LK 8
1200	1300	1400	1500

The shaded selection (in ms) is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK7 + 0 9 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following when entering data: Recall to go to the next page Feature to go to the previous page
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-7-08	External Speaker Chime Selection

SLT or Automated Attendant/DISA to CPU PBR Selection

System Mode	Submode	Data No.	PC Programming
1	8	01	Alt +BTI

General Description

Use this Memory Block to specify whether the four Push Button Receiver (PBR) circuits in the CPUB( )-U10 ETU/MBD-U10 Unit are used for Single Line Telephones or the Automated Attendant/Direct Inward System Access (DISA).

Display

Data No. — Title

```
01:PBR(SLT/AA)
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
PBR 1 and 2	PBR 3 and 4		
LK 5	**LK 6**	**LK 7**	**LK 8**

Default not assigned.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. The LED indication changes to indicate the data each time the CO/PBX line key is pressed.

CO/PBX Line LED	Off	On
Data	Single Line Telephone	A.A./DISA

The shaded area indicates the default setting.

4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

If LK1 and LK2 are assigned to Automated Attendant/DISA, a PBR( )-U10 ETU must be installed in the system if Single Line Telephones are used.

PBR Receive Level Assignment for Automated Attendant/DISA

System Mode	Submode	Data No.	PC Programming
1	8	02	Alt +AU

General Description

Use this Memory Block to specify the receiving level of the Push Button Receiver (PBR) at the Automated Attendant/Direct Inward System Access (DISA).

Display

Data No. | Title | PBR No. 1/2 | Setting Data

```
02:PBR 1        =03
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 0 2 to access the Memory Block.
3	Use the dial pad to change the data option. The information that can be entered includes:

Setting Data	Receiving Level
00	-33.0 dBm
01	-34.0 dBm
02	-35.0 dBm
03	-36.0 dBm
04	-37.0 dBm
05	-38.0 dBm
06	-39.0 dBm
07	-40.0 dBm
08	-41.0 dBm
09	-42.0 dBm
10	-43.0 dBm
11	-44.0 dBm
12	-45.0 dBm
13	-46.0 dBm
14	-47.0 dBm
15	-48.0 dBm

Default Values (PBR 1 and 2)

Setting Data	Receiving Level
03	-36.0 dBm

4	Press Transfer to write the data and advance to the next PBR.
5	Enter next PBR, and press Transfer to write data.
6	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. When the Automated Attendant answers, the DTMF signal level from the calling party is reduced from the Public Switching Telephone Network (PSTN). This Memory Block specifies the minimum detectable receiving level. Setting Data 15 is the most sensitive.
2. PBR 1 data is for Channels 1 and 2 and PBR 2 is for Channels 3 and 4 in the CPUB( )-U10 ETU/MBD-U10 Unit.

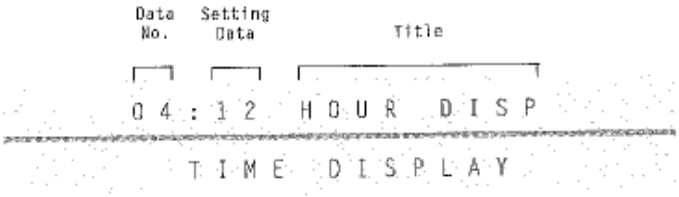
Time Display (12h/24h) Selection

System Mode
1
Submode
8
Data No.
04
PC Programming
Alt +BM

General Description

Use this Memory Block to specify either a 12-hour (00:00 to 11:59 a.m., noon to 11:59 p.m.) or 24-hour (00:00 to 23:59) time display.

Display



Settings

LK 1	LK 2	LK 3	LK 4
12	24		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 0 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

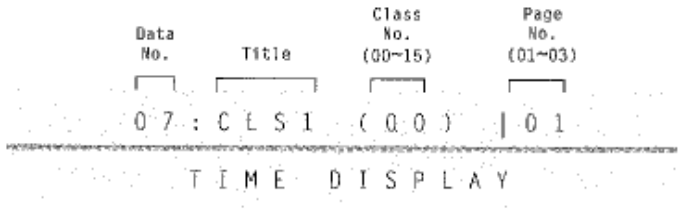
Class of Service (Attendant) Feature Selection 1

System Mode
1
Submode
8
Data No.
07
PC Programming
Alt +BTS

General Description

Use this Memory Block to allow or deny specific attendant features for each Class Of Service. When individual stations are assigned, the station user can access only the features designated allow.

Display



Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
Night Mode Switching	Night Mode Switching Per Tenant	System Speed Dial Programming	Not Used
LK 5	**LK 6**	**LK 7**	**LK 8**
Not Used	Not Used	Automatic Trunk-to-Trunk Transfer Set/ Reset	Automated Attendant/DISA Set/Reset Mode

(Page 2)

LK 1	LK 2	LK 3	LK 4
Timed Alarm for Single Line Telephone Set/Reset	Call Forward Set/Cancel from Destination Station	System-Wide Reset Refer to Note 1	Password (Outgoing Restriction) Refer to Note 2
LK 5	**LK 6**	**LK 7**	**LK 8**
DISA Password Cancel	DISA Password Confirmation	Weekend Mode Per Tenant	Forced Account Code

(Page 3)

LK 1	LK 2	LK 3	LK 4
Terminal Exchange Mode Set	Not Used	Not Used	Not Used
LK 5	**LK 6**	**LK 7**	**LK 8**
Not Used	Not Used	Not Used	Not Used

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + (0) (7) to access the Memory Block.
3	Press the corresponding CO/PBX line key to enter data. The LED indication changes to indicate the data each time a CO/PBX line key is pressed. CO/PBX Line Key LED: Off / On Data: Deny / Allow There is no default setting. ☞ Use the following when entering data: Press (Recall) to go to the next page Press (Feature) to go to the previous page
4	Press (Transfer) key. Data for Class 01 ~ 15 is displayed successively.
5	Press (Transfer) to write the data for Class 15.
6	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
4-17	Station to Class of Service Feature Assignment

Notes

1. System-Wide Reset selection resets the following: Call Forward-All Call, Do Not Disturb, Customized Message, and Callback Request.
2. Password (Outgoing Restriction) selection cancels Station Lockout and default password for another station.
3. Sixteen Classes (00 ~ 15) of feature restriction patterns allow a station user to activate particular features while restricting others.
4. At default, stations 100 and 101 are in class 00. All other stations are in class 15.
5. Stations are assigned to a Class of Service in Memory Block 4-17 (Station to Class of Service Feature Assignment).

Classes 00 ~ 15 are programmed in this Memory Block as feature restriction classes. In Memory Block 4-17 (Station to Class of Service Feature Assignment) specify any class of service for each telephone to assign features the user can/cannot activate.

Corresponding CO/PBX Line Key	Function Name	Default Class 00	Default Class 01 ~ 15
Page 01			
LK1	Night Mode Switching (System-Wide))	Allow	Deny
LK2	Night Mode Switching (Tenant)	Allow	Deny
LK3	System Speed Dial Programming	Allow	Deny
LK4	Not Used	N/A	N/A
LK5	Not Used	N/A	N/A
LK6	Not Used	N/A	N/A
LK7	Automatic Trunk-to-Trunk Transfer (Set/Reset) and programming of Outgoing Numbers	Allow	Deny
LK8	Automated Attendant/DISA Mode (Set/Reset)	Allow	Deny
Page 02			
LK1	Timed Alarm (Set/Reset) for Single Line Telephones (From Attendant)	Allow	Deny
LK2	• Call Forward-All Call (Set/Reset)from Destination Station • Call Forward CAR Keys • Call Forward All Call Set • Call Forward Busy/No Answer set	Allow	Deny
LK3	System-Wide Reset of Timed Alarm, Call Forward-All Call, Do Not Disturb, Customized Message, and Callback Request	Deny	Deny
LK4	Cancel Station Lockout and Default Password for another Station	Allow	Deny
LK5	DISA Password Cancel	Allow	Deny
LK6	DISA Password Confirmation	Allow	Deny
LK7	Automated Attendant Weekend Mode (Set/ Reset) Tenant	Allow	Deny
LK8	Forced Account Code Programming	Allow	Deny
Page 03			
LK1	Terminal Exchange Mode Set	Allow	Deny
LK2~LK8	Not Used	N/A	N/A

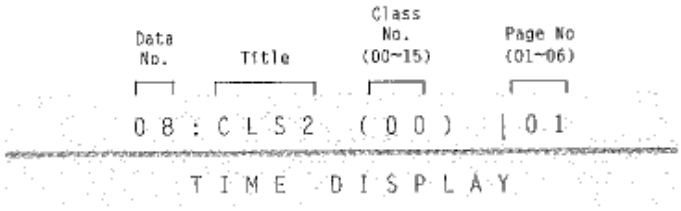
Class of Service (Station) Feature Selection 2

System Mode
1
Submode
8
Data No.
08
PC Programming
Alt+BTS

General Description

Use this Memory Block to allow or deny specific station features for each Class of Service. When individual stations are assigned, the station user can access only the features designated allow.

Display



Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
Call Forward- All Call, DND, Break Mode	Trunk Queuing	Automatic Callback	Barge-In (Calling Party)
LK 5	**LK 6**	**LK 7**	**LK 8**
Barge-In Receive (Called Party)	Timed Alarm Set/Cancel From SLT	General Purpose Relay	Voice / Tone Override (Originate)

(Page 2)

LK 1	LK 2	LK 3	LK 4
Absence Message	Callback Request Set	Station Outgoing Lockout Set	Not Used
LK 5	**LK 6**	**LK 7**	**LK 8**
Call Forward Busy/No Answer Set	VRS Voice Message	Not Used	DISA Password Set

(Page 3)

LK 1	LK 2	LK 3	LK 4
Not Used	User Ringing Line Preference Set/Reset	Voice/Tone Override (Receive)	LCR Bypass
LK 5	**LK 6**	**LK 7**	**LK 8**
Station Trunk-to-Trunk Transfer	Account Code Entry	Digit Restriction Timer Selection	Call Alert Notification

(Page 4)

LK 1	LK 2	LK 3	LK 4
LCR Recall	DSS Key Transfer Operation	Caller ID	Caller ID Number Selection
LK 5	**LK 6**	**LK 7**	**LK 8**
Manual Live Record Activate	Auto Live Record Activate	BGM Selection	Unsupervised Conference

Default not assigned.

(Page 5)

LK 1	LK 2	LK 3	LK 4
Forced Account code	Group Listening Selection	Station Relocation	Set Call Forward-Off Premise
LK 5	LK 6	LK 7	LK 8
Pre-Set Dialing Allow/Deny	Live Monitoring	Caller ID Display Selection	

(Page 6)

LK 1	LK 2	LK 3	LK 4
ARS Bypass	Not Used	Not Used	Not Used
LK 5	LK 6	LK 7	LK 8
Not Used	Not Used	Not Used	Not Used

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 0 8 to access the Memory Block.
3	Use the dial pad to enter COM Port No. ☞ Use the following to enter COM Port No: 0 ~ 9 to enter numeric data * to move cursor left # to move the cursor right
4	Press the corresponding CO/PBX line key to enter Setting Data. The LED indication changes to indicate data each time CO/PBX line key is pressed. CO/PBX Line Key LED: Off / On — Default not assigned. Data: Deny / Allow ☞ Press Recall to go to the next page. Press Feature to go back to the previous page.
5	Press Transfer key. Data for Class 01 ~ 15 is displayed successively.
6	Press Transfer to write the data for class 15.
7	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
4-17	Station to Class of Service Feature Assignment

Notes

1. Sixteen Classes (00 ~ 15) of feature restriction patterns allow a station user to activate particular features while restricting others.
2. At default, all stations are in Class 00.
3. Stations are assigned to a Class of Service in Memory Block 4-17 (Station to Class of Service Feature Assignment).

Corresponding CO/PBX Line Key	Function Name	Default Class 00	Default Class 01 ~ 15
Page 01			
LK1	Set Call Forward - All Call, Do Not Disturb (DND), Break Mode	Allow	Deny
LK2	Trunk Queuing	Allow	Deny
LK3	Automatic Callback	Allow	Deny
LK4	Barge-In Originate on a CO/PBX Line (Calling Party)	Deny	Deny
LK5	Barge-In Receive (Called Party)	Allow	Deny
LK6	Timed Alarm (Set/Cancel) From SLT	Allow	Deny
LK7	General Purpose Relay	Allow	Deny
LK8	Voice Override/Tone Override Originate	Allow	Deny
Page 02			
LK1	Absence Message	Allow	Deny
LK2	Callback Request Originate	Allow	Deny
LK3	Station Outgoing Lockout (Set/Cancel)	Allow	Deny
LK4	Not Used	N/A	N/A
LK5	Call Forward Busy, No Answer, Busy/No Answer Set	Allow	Deny
LK6	VRS Voice Message Record/Verify/Erase	Allow	Deny
LK7	Not Used	N/A	N/A
LK8	DISA Password Set	Allow	Deny
Page 03			
LK1	Not Used	N/A	N/A
LK2	User Ringing Line Preference Set/Reset	Allow	Deny
LK3	Voice/Tone Override/Camp-On Receive	Allow	Deny
LK4	LCR Bypass (Trunk Groups 02~32)	Deny	Deny
LK5	Station Trunk-to-Trunk Transfer	Deny	Deny
LK6	Account Code Entry	Deny	Deny
LK7	Digit Restriction Timer Selection	Allow	Allow
LK8	Call Alert Notification for DIT and DID	Allow	Deny

Corresponding CO/PBX Line Key	Function Name	Default Class 00	Default Class 01 – 15
Page 04			
LK1	LCR Recall	Allow	Deny
LK2	DSS Key Transfer Operation	Deny	Deny
LK3	Caller ID	Deny	Deny
LK4	Caller ID Number/Name Selection If deny is set, Name is displayed if Name and number are received. If allow is set, Number is displayed if Name and number are received.	Deny	Deny
LK5	Manual Live Record Activate (Memory Block 1-8-26 must be set.)	Deny	Deny
LK6	Auto Live Record Activate (LK5 must be on, and Memory Block 1-8-26 must be set.)	Deny	Deny
LK7	BGM Selection	Allow	Deny
LK8	Unsupervised Conference	Deny	Deny
Page 05			
LK1	Forced Account Code	Deny	Deny
LK2	Group Listening Selection	Deny	Deny
LK3	Station Relocation	Allow	Deny
LK4	Set Call Forward-Off Premise (Related to Page 1, LK1 and Page 2, LK5)	Deny	Deny
LK5	Pre-Set Dialing (Allow/Deny) (S2000 or higher)	Deny	Deny
LK6	Live Monitoring (S3000 or higher)	Deny	Deny
LK7	Caller ID Display Selection (S4000) If allow is set, Caller ID Name and Number display at the same time.	Deny	Deny
LK8	Not Used	N/A	N/A
Page 06			
LK1	ARS Overflow (S4000)	Deny	Deny
LK2	Not Used	N/A	N/A
LK3	Not Used	N/A	N/A
LK4	Not Used	N/A	N/A
LK5~8	Not Used	N/A	N/A

Music on Hold Pattern Selection

System Mode	Submode	Data No.	PC Programming
1	8	09	Alt +BCS

General Description

Use this Memory Block to specify the Music on Hold pattern.

Display

```
Data No.   Title      Setting Data
09 : MOH              = A
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
A	B		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Medley A = American Folk Song Medley

Medley B = Christmas Song Medley

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 0 9 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-8-31	Hold Tone Source Assignment
1-8-32	Hold Interval Tone Volume Selection

Notes

1. Music on Hold can be provided to CO/PBX and intercom calls that are placed on hold.
2. One of two melodies can be selected:

   A = American Folk Song Medley

   B = Christmas Song Medley

PBR Interdigit Release Time Selection

System Mode
1
Submode
8
Data No.
10
PC Programming
Alt +BM

General Description

Use this Memory Block to specify the interdigit release time for the Push Button Receiver (PBR).

Display

Data No. | Title | Setting Data

```
10:PBR RELEAS 7s
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
3s	4s	5s	6s
LK 5	LK 6	LK 7	LK 8
7s	8s	9s	10s

The shaded selection is the default.

Programming Procedures

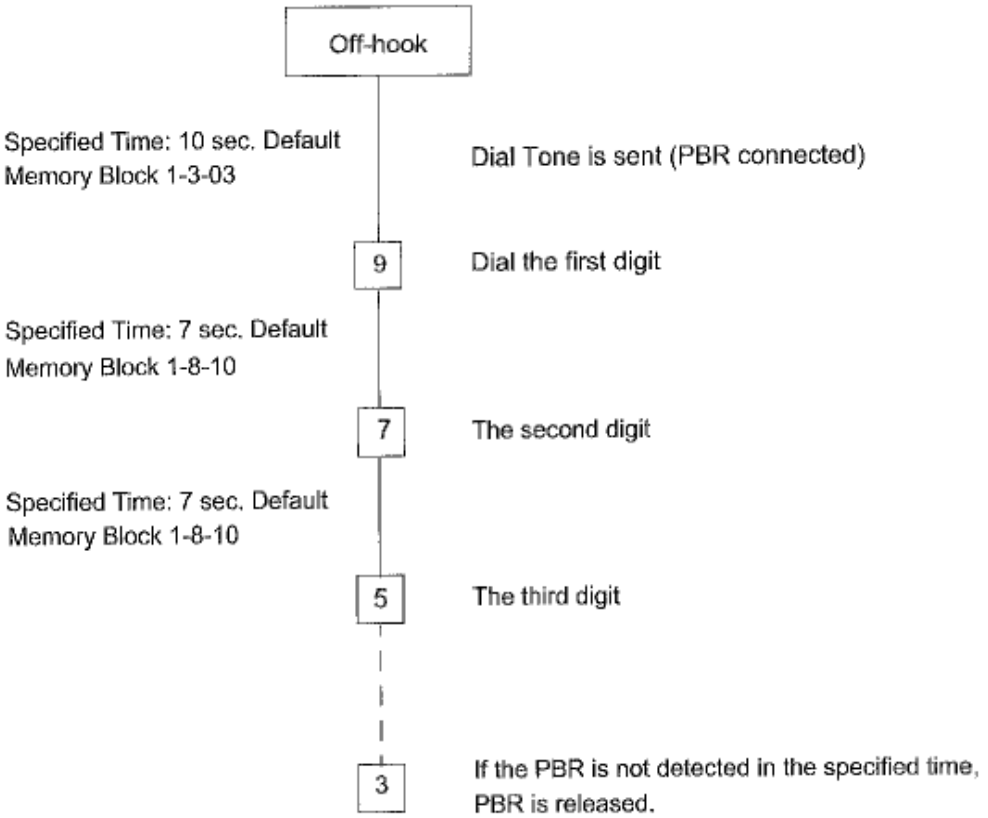
1	Go off-line.
2	Press LK1 + LK8 + 1 0 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-3-03	First Digit PBR Release Time Selection
1-8-01	SLT or Automated Attendant/DISA to CPU PBR Selection

Notes

A DTMF Single Line Telephone connected to the Electra Elite 48/192 system must be supported by a PBR that receives DTMF signals.


Off-hook
Specified Time: 10 sec. Default
Memory Block 1-3-03
Dial Tone is sent (PBR connected)
9
Dial the first digit
Specified Time: 7 sec. Default
Memory Block 1-8-10
7
The second digit
Specified Time: 7 sec. Default
Memory Block 1-8-10
5
The third digit
3
If the PBR is not detected in the specified time,
PBR is released.

System Refresh Time Assignment

System Mode
1
Submode
8
Data No.
11
PC Programming
Alt +BM

General Description

Use this Memory Block to assign the System Refresh Time during idle periods.

Display

Data No. | Title | Setting Data

```
11:REFRESH        4H
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NON	4H	8H	12H
LK 5	LK 6	LK 7	LK 8
24H			

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 1 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

The system automatically refreshes itself during idle periods based on the time specified in this Memory Block.

VRS Message Recording Time Selection

System Mode
1
Submode
8
Data No.
12
PC Programming
Alt +AR

General Description

Use this Memory Block to specify the recording time x number of messages for each of the eight Voice Recording Service (VRS) channels.

Display

Data No. | Title | VRS Chan. | Setting Data

```
12:VRS1   15s  x16
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
15s x16	30s x 8	60s x 4	120s x 2
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 1 2 to access the Memory Block.	
3	Press corresponding CO/PBX line key to change data option. Use the following to enter VRS Channel: 0 ~ 8 to enter numeric data	**Default Values** All VRS Channels Recording Time = 15 seconds, 16 messages
4	Press Transfer to write the data and advance to the next VRS Channel.	
5	After entering last data, press Transfer to write the data.	
6	Press Speaker to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

Voice Recording Services Channel 1 has 240 seconds for message recording. The number of messages that can be recorded depends on message length. Divide 240 by the message length to obtain number.

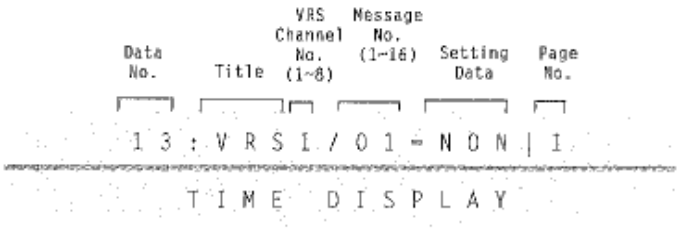
VRS Message Function Assignment

System Mode
1
Submode
8
Data No.
13
PC Programming
Alt +AR

General Description

Use this Memory Block to assign the recorded voice prompt Delay Announcement/ Automated Attendant Message to the Voice Recording Service (VRS) Message number. Refer to Memory Block 1-8-12 (VRS Message Recording Time Selection).

Display



Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
NON	V1 (Voice Prompt)	V2 (Voice Prompt)	M1 (Delay message)
LK 5	LK 6	LK 7	LK 8
M2 (Delay message)	Not Used	Not Used	Not Used

(Page 2)

LK 1	LK 2	LK 3	LK 4
D1 (Day A A)	D2 (Day A A)	D3 (Day A A)	D4 (Day A A)
LK 5	LK 6	LK 7	LK 8
D5 (Day A A)	D6 (Day A A)	D7 (Day A A)	D8 (Day A A)

(Page 3)

LK 1	LK 2	LK 3	LK 4
N1 (Night A A)	N2 (Night A A)	N3 (Night A A)	N4 (Night A A)
LK 5	LK 6	LK 7	LK 8
N5 (Night A A)	N6 (Night A A)	N7 (Night A A)	N8 (Night A A)

(Page 4)

LK 1	LK 2	LK 3	LK 4
W1 (Weekend A A)	W2 (Weekend A A)	W3 (Weekend A A)	W4 (Weekend A A)
LK 5	LK 6	LK 7	LK 8
W5 (Weekend A A)	W6 (Weekend A A)	W7 (Weekend A A)	W8 (Weekend A A)

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 1 3 to access the Memory Block.	
3	Press corresponding CO/PBX line key to change data option. ☞ Use 0 ~ 9 to enter VRS Channel and message number. * to move cursor left # to move cursor right	**Default Value** All Channels of Block: No Message
4	Press Transfer to write the data and advance to the next message number or VRS Channel.	
5	After entering last data, press Transfer to write the data.	
6	Press Speaker to go back on-line.	

Related Programming

Refer to Chapter 2 Guide to Feature Programming.

Tone Assignment

System Mode	Submode	Data No.	PC Programming
1	8	15	Alt +BI

General Description

Use this Memory Block to assign each system tone to the flexible tables.

Display

Data No. | Table No. (00~12) | Tone | Setting Data | Page No.

```
15:(00)DT - A|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
A	B	C	D
LK 5	LK 6	LK 7	LK 8
E	F	G	H

(Page 2)

LK 1	LK 2	LK 3	LK 4
I	J	K	L
LK 5	LK 6	LK 7	LK 8
M			

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 1 2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the Setting Data option. Use 0 ~ 9 to enter Table No.
4	Press Transfer to write the data and advance to the next table.
5	After entering last data, press Transfer to write the data.
6	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Default Table

Table Number	Tone	LCD	Default
00	ICM Dial Tone	DT	A
01	Second Dial Tone	2 DT	B
02	Special Dial Tone	SPDT	C
03	Busy Tone	BT	D
04	Reorder/Error Tone	ROT	E
05	Howler Tone	HWT	F
06	Service Set Tone	SST	G
07	ICM Ringback Tone	RBT1	I
08	Tie/DID Ringback Tone	RBT2	H
09	Call Waiting Tone	CWT	J
10	LCR Dial Tone	SDTT	K
11	Tone Burst 1	TB1	G
12	Tone Burst 2	TB2	K

Tone Table

Tone	Frequency	Intermit	Cycle
A	350/440	Continuous	
B	350/440	120 IPM 0.25 On, 0.25 Off	
C	440	240 IPM 0.125 On, 0.125 Off	
D	480/620	60 IPM 0.5 On, 0.5 Off	
E	480/620	120 IPM	
F	2400 16 Modulation	Continuous	
G	440	Continuous	
H	440/480	2 sec On 4 sec Off	
I	440/480	1 sec On 2 sec Off	
J	440	60 IPM	
K	400	Continuous	
L	800	60 IPM	
M	No Tone	Continuous	

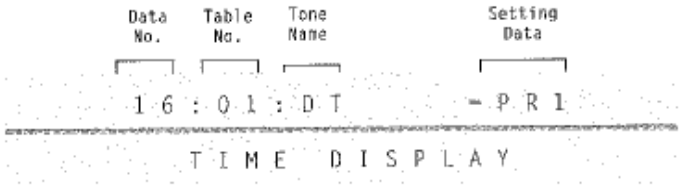
Voice Prompt to Tone Assignment

System Mode
1
Submode
8
Data No.
16
PC Programming
[Alt]+AR

General Description

Use this Memory Block to assign the voice prompt to each tone. Voice prompt is provided only during the Internal Dial tone or Call Waiting tone.

Display



Settings

LK 1	LK 2	LK 3	LK 4
PR1	PR2		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + (1) (6) to access the Memory Block.	
3	Press the corresponding CO/PBX line key to change data option. ☞ Table No. 1: Dial tone Table No. 2: Call Waiting tone	**Default Values** Dial Tone: PR1 Call Waiting Tone: PR2
4	Press [Transfer] to write the data and advance to Table 02.	
5	After entering last data, press [Transfer] to write the data.	
6	Press [Speaker] to go back on-line.	

Related Programming

Refer to Chapter 2 Guide to Feature Programming.

PC Programming Password Assignment

System Mode	Submode	Data No.	PC Programming
1	8	17	Alt +CSP

General Description

Use this Memory Block to set a system password that must be entered when using PC Programming.

Display

```
Data No.   Class No. 1,2   Setting Data
 17 : ( 1 ) =
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 1 7 to access the Memory Block.	
3	Use the following to enter Class 1 (Technician Mode) and password (8 digits max.) ☞ Use the following to enter data: 0 ~ 9 to enter numeric data Press Hold to clear data	**Default Values** Class 1, 2 All Blank
4	Press Transfer to write the data and advance to Class 2 (End User Mode).	
5	After entering Class 2 password, press Transfer to write the data.	
6	Press Speaker to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Programming from a Multiline Terminal allows eight digits to be entered for each class.
2. PC Programming allows only five digits to be entered; if more are entered, a Password No Good error is provided when login is attempted.

Site Name Assignment

System Mode	Submode	Data No.	PC Programming
1	8	18	Alt +CSN

General Description

Use this Memory Block to specify a site name for PC Programming software to use to program the system.

Display

Data No. | Class No. 1,2 | Setting Data

```
18:SITE=
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 1 8 to access the Memory Block.
3	Use Character Code Table in Section 7, and enter up to eight characters for Setting Data. ☞ Press Hold to clear data at cursor
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. When programmed, this assignment creates a directory in the PC after download is performed.
2. Using System Sofware S4000 or higher, the name can be entered using the dial pad instead of the ASCII Character Code Tables. Follow the procedure in Section 7.

ACD/UCD Group Agent Assignment

System Mode
1
Submode
8
Data No.
25
PC Programming
Alt +AA

General Description

Use this Memory Block to specify the Agent Station Number and the Automatic Call Distribution/Uniform Call Distribution (ACD/UCD) Group Number where each agent is assigned.

Display

```
                    Agent   Group      Station
Data                No.     No.          No.
No.    Title        (1~32)  (1~4)   4 Digits (max.)
 ┌──┐ ┌──┐┌──┐ ┌──┐ ┌──────┐
 25 : A G 0 1 / G P _ ∞
 ────────────────────────────────────────────────
        T I M E   D I S P L A Y
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + (2) (5) to access the Memory Block.	
3	Setting data includes Group no. (1 ~ 4) and Station No. (4 digits max.) Use the dial pad to enter data. Agent station number is one of the following: • 2 digit (00 ~ 99) • 3 digit (000 ~ 999) • 4 digit (0000 ~ 9999)	**Default Value** Not Specified
4	Press (Transfer) to write Group and Station No. and advance to next Agent number (1 ~ 32).	
5	After entering last data, press (Transfer) to write the data.	
6	Press (Speaker) to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
1-1-47	Access Code (2-Digit) Assignment
1-1-48	Access Code (3-Digit) Assignment
1-2-03	2-, 3- or 4-Digit Station Number Selection

Notes

1. UCD and ACD cannot be installed in the same system.
2. ACD is **not** supported in the Electra Elite 48 system.

Voice Mail Quick Transfer Master Hunt Number

System Mode	Submode	Data No.	PC Programming
1	8	26	Alt +AV

General Description

Use this Memory Block to specify a Voice Mail Master Hunt Number to operate Quick Transfer to Voice Mail. This Memory Block also enables the voice mail display in the LCD of a Multiline Terminal when a voice mail machine sets a message.

Display

Data No. | Title | Agent Station No.

```
26 : VM  MASTER000
TIME  DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + (2) (6) to access the Memory Block.	
3	Use dial pad to enter agent station No. ☞ Use the following to enter data: (0) ~ (9) to enter numeric data (#) to move cursor left (*) to move cursor right Agent station number is one of the following: • 2 digit (00 ~ 99) • 3 digit (000 ~ 999) • 4 digit (0000 ~ 9999)	**Default Value** Not Specified
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
1-1-47	Access Code (2-Digit) Assignment
1-1-48	Access Code (3-Digit) Assignment
1-2-03	2-, 3- or 4-Digit Station Number Selection
1-2-24	Intercom Feature Access Code Assignment
4-14	Intercom Master Hunt Number Selection
4-15	Intercom Master Hunt Number Forward Assignment
4-35	Voice Mail/SLT Selection

Forced Account Code Length Assignment

System Mode	Submode	Data No.	PC Programming
1	8	27	Alt +BF

General Description

Use this Memory Block to specify the number of digits for the Forced Account Codes.

Display

Data No. | Title | Setting Data

```
27 : FORCED    10DGT
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 2 7 to access the Memory Block.	
3	Use dial pad to enter number of digits. ☞ Use the following to enter data: 0 ~ 9 to enter digits * to move cursor left # to move cursor right Setting Data = 01 ~ 13 digits	**Default Values** 10 Digits
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
1-1-47	Access Code (2-Digit) Assignment
1-1-48	Access Code (3-Digit) Assignment
1-8-08	Class of Service (Station) Feature Selection 2

SCD (Simplified Call Distribution) Pilot Number Assignment

System Mode
1
Submode
8
Data No.
29
PC Programming
Alt +AA

General Description

Use this Memory Block to specify the SCD Pilot number for each of the four groups. It can be any valid unused station number.

Display

Data No. | Title | Group No. | Setting Data

```
29:PILOT   1
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + (2) (9) to access the Memory Block.	
3	Use dial pad to enter an extension number. ☞ Use the following to enter data: (0) ~ (9) to enter digits (*) to move cursor left (#) to move cursor right Setting Data = 2~4 digits	**Default Values** Not Assigned
4	Press Transfer to write the data and advance to next Group No. (1~4).	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-8-30	SCD Group Agent Assignment

SCD Group Agent Assignment

System Mode	Submode	Data No.	PC Programming
1	8	30	Alt +AA

General Description

Use this Memory Block to assign stations to one of four simplified call distribution groups. A total of 32 stations can be assigned.

Display

Data No.	Title	Agent #	Grp. #	Setting Data
30	SG	01	1	-

TIME DISPLAY

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 3 0 to access the Memory Block.	
3	Use dial pad to enter the station numbers. ☞ Use the following to enter data: 0 - 9 to enter digits * to move cursor left # to move cursor right Setting Data = Maximum of 4 digits	**Default Values** Not Assigned
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-8-29	SCD (Simplified Call Distribution) Pilot Number Assignment

Hold Tone Source Assignment

System Mode	Submode	Data No.	PC Programming
1	8	31	Alt +BCS

General Description

Use this Memory Block to assign an internal or external Music on Hold source.

Display

Data No. | Title | Setting Data

```
31:HLDT SRC  INT
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
INT	EXT		

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 3 1 to access the Memory Block.	
3	Press the corresponding CO/PBX line key to change the MOH source.	**Default Values** INT
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-8-09	Music On Hold Pattern Selection
1-8-32	Hold Internal Tone Volume Selection

Hold Internal Tone Volume Selection

System Mode	Submode	Data No.	PC Programming
1	8	32	Alt +BCS

General Description

When the internal Music On Hold source is used, this Memory Block can be used to pad the music by -6 dB.

Display

Data No. | Title | Setting Data

```
32:HLDT VOL   0dB
TIME DISPLAY
```

Settings

LK 1	LK 2		
0dB	-6dB		

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + (3) (2) to access the Memory Block.	
3	Press the corresponding CO/PBX line key to change the dB setting.	**Default Values** 0 dB
4	Press (Transfer) to write the data.	
5	Press (Speaker) to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-8-31	Hold Tone Source Assignment

Master Clock Selection

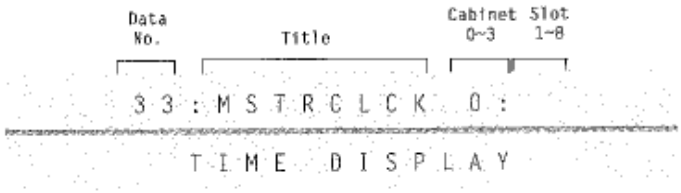
System Mode	Submode	Data No.	PC Programming
1	8	33	Alt +AD

General Description

When a DTI-U10 ETU (T-1), PRT(1)-U10 ETU, or BRT(4)-U10 ETU is installed, clocking must be synchronized. Use this Memory Block to assign the source for system synchronization.

☞ If the master clock selection is changed, all T-1 traffic is dropped immediately as the synchronization occurs again.

Display



Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 3 3 to access the Memory Block.	
3	Use dial pad to enter number of digits. ☞ Use the following to enter data: 0 ~ 9 to enter digits * to move cursor left # to move cursor right	**Default Values** Cabinet 0 (Not Used)
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
7-1	Card Interface Slot Assignment

COM Port Baud Rate Setting Assignment

System Mode	Submode	Data No.	PC Programming
1	8	35	Alt+CSS

General Description

Use this Memory Block to specify the baud rates for individual COM ports.

Display

Data No. | Title | Setting Data

35 : B D R T 1 = 3 8 . 4

T I M E D I S P L A Y

Settings

LK 1	LK 2	LK 3	LK 4
4.8	9.6	19.2	38.4

The shaded selection is the default. Baud Rates are in Kbps.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 3 5 to access the Memory Block.	
3	Press the corresponding CO/PBX line key to select the baud rate for each COM port.	**Default Values** COM 1 = 38.4 COM 2 = 4.8 COM 3 = 4.8 (Not Used) COM 4 = 9.6
4	Press Transfer to write the data, and advance through the COM ports.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-5-13	Printer Connected Selection

Notes

COM 1 = PC Programming
COM 1 = LCR
COM 2 = Station Message Detail Recording (SMDR)
COM 4 = Automatic Call Distribution (Not used by Electra Elite 48 system)

COM Port Parity/Stop Bit Setting Assignment

System Mode
1
Submode
8
Data No.
36
PC Programming
Alt +CSS

General Description

Use this Memory Block to specify the Parity and Stop bit for the individual COM ports.

Display

Data No. | Title | Setting Data

```
36:P/S 1= NON/1
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NON/1	NON/2	EVEN/1	ODD/1
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 3 6 to access the Memory Block.	
3	Press the corresponding CO/PBX line key to select the parity and stop bit setting.	**Default Values** COM 1 = Non/1 COM 2 = Non/1 COM 3 = Non/1 COM 4 = Non/1
4	Press Transfer to write the data, and advance through the COM ports.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-5-13	Printer Connected Selection

Notes

COM 1 = PC Programming
COM 1 = LCR
COM 2 = Station Message Detail Recording (SMDR)
COM 4 = Automatic Call Distribution (Not used by Electra Elite 48 system)

General Purpose Relay Assignment

System Mode	Submode	Data No.	PC Programming
1	8	37	Alt +BP

General Description

Use this Memory Block to specify whether or not the General Purpose Relays on the ECR-U10 ETU are used.

Display

Data No. | Title | Relay No. | Setting Data

```
37:RELAY(0)-NO
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 3 7 to access the Memory Block.	
3	Press the corresponding CO/PBX line key to specify whether or not relay one is used.	**Default Values** NO
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-6-05	Attendant Add-On Console Key Selection

Notes

These General Purpose Relays are normally open relays.

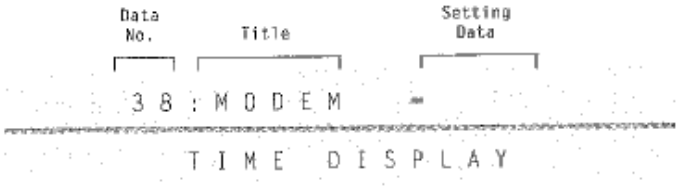
Modem Number For Remote Programming Assignment

System Mode
1
Submode
8
Data No.
38
PC Programming
Alt +CSS

General Description

A socket modem can be installed on the MIFM-U10 ETU when the MIFM-U10 ETU is installed in S1 or S2 of the B64-U10 KSU or S2 of the B48-U10 KSU. Use this Memory Block to assign the extension number for the socket modem.

Display



Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 3 8 to access the Memory Block.	
3	Use dial pad to enter number of digits. ☞ Use the following to enter data: 0 ~ 9 to enter digits * to move cursor left # to move cursor right Setting Data = maximum of 4 digits	**Default Values** Not assigned
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
7-1	Card Interface Slot Assignment

ACD Hunt Time

System Mode	Submode	Data No.	PC Programming
1	8	40	Alt +AA

General Description

Use this Memory Block to assign the time for hunting among the Automatic Call Distribution/ Uniform Call Distribution (ACD/UCD) agents that do not answer an ACD/UCD call.

Display

Data No. | Title | Setting Data

```
40:ACD TIMER 10S
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
10s	20s	30s	60s
LK 5	LK 6	LK 7	LK 8
120s	240s	∞ (No Limit)	

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK8 + 4 6 to access the Memory Block.	
3	Press the corresponding CO/PBX line key to assign the value.	**Default Value** 10 seconds
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-12-00	ACD/UCD Group Pilot Number Assignment
1-12-01	ACD/UCD Group Overflow Destination Assignment
1-12-02	ACD/UCD Overflow Time Selection

Notes

ACD is **not** supported in the Electra Elite 48 system.

Enhanced 911 Trunk Assignment

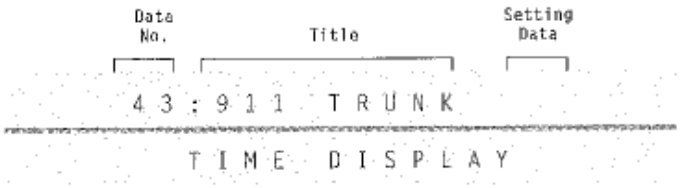
System Mode
1
Submode
8
Data No.
43
PC Programming
Alt +AE

General Description

Use the Enhanced 911 feature to connect a dedicated Enhanced 911 CAMA trunk. When a user dials 911, the system seizes the dedicated 911 trunk and sends additional digits (CESID) to enable the PSAP center to recognize the callback telephone number. The CAMA trunk must be connected to a COI(4/8)-U10 or COID(4/8)-U10 Loop Start port and assigned to the system.

This feature requires System Software S3000 or higher.

Display



Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 4 3 to access the Memory Block.
3	Use the dial pad to specify CO/PBX number to assign the CAMA trunk. ☞ Use the following to enter data: 0 ~ 9 to enter numeric data * to move cursor left # to move the cursor right Setting Data: CO/PBX 01~64 (Default not specified) Hold : Data Clear
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-8-44	Enhanced 911 Alternate Route Assignment
1-8-45	Enhanced 911 Alternate Route Assignment (Maintenance Busy)
1-8-46	Enhanced 911 Dialing Digit Assignment
4-54	Enhanced 911 CESID to Station Table

Notes

1. Only one CAMA trunk can be assigned per system.
2. The CAMA trunk can be connected to COI(4)/(8)-U10 ETU or COID(4)/(8)-U10 ETU.
3. Information provided to the E911 system is called Caller Emergency Service Identification (CESID) that can be a 7- to 10-digit number. Caller ID can be used instead of CESID. The E911 Operator data base uses Caller ID or the CESID to provide a callback number and location for emergency response.
4. To seize a CAMA trunk:
   - Dial 911 after receiving internal dial tone.
   - Dial 911 after accessing an outside trunk with a line key.
   - Dial 911 after accessing an outside trunk with an access code.

Enhanced 911 Alternate Route Assignment

System Mode
1
Submode
8
Data No.
44
PC Programming
Alt +AE

General Description

Use this Memory Block to specify the trunk route or route advance block to be seized if the enhanced CAMA trunk is busy. Normally, this Memory Block is to be left unassigned.

This feature requires System Software S3000 or higher.

Display

Data No. | Title | Setting Data

```
44:911ALT  RT
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 4 4 to access the Memory Block.
3	Use the dial pad to enter data. ☞ Use the following to enter data: 0 ~ 9 to enter numeric data * to move cursor left # to move the cursor right Setting Data: Not Specified No Alternate Route (default) 101~132 Trunk Group 01~32 201~ 216 Route Advance Block 01~16 Hold : Data Clear
4	Press Transfer to write the data after selection.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-8-43	Enhanced 911 Trunk Assignment
1-8-45	Enhanced 911 Alternate Route Assignment (Maintenance Busy)
1-8-46	Enhanced 911 Dialing Digit Assignment
4-54	Enhanced 911 CESID to Station Table

Notes

One trunk group or one route advance block can be specified per system.

Enhanced 911 Alternate Route Assignment (Maintenance Busy)

System Mode
1

Submode
8

Data No.
45

PC Programming
Alt +AE

General Description

Use this Memory Block to specify the trunk route or route advance block to be seized if the enhanced CAMA trunk is in maintenance busy or trouble out of service.

This feature requires System Software S3000 or higher.

Display

```
Data No.          Title                Setting
                                       Data
 ┌──┐  ┌──────────────────┐          ┌──────┐
  4 5 : 9 1 1   M N T        1 0 1
 ═══════════════════════════════════════════════
        T I M E   D I S P L A Y
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + (4) (5) to access the Memory Block.
3	Use the dial pad to enter data. ☞ Use the following to enter data: (0) ~ (9) to enter numeric data (*) to move cursor left (#) to move the cursor right Setting Data: (Default: Trunk Group 01) 101~132 Trunk Group 01~32 (Default 101 for Trunk Group 01) 201~ 216 Route Advance Block 01~16 Hold : Data Clear
4	Press Transfer to write the data after selection.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-8-43	Enhanced 911 Trunk Assignment
1-8-44	Enhanced 911 Alternate Route Assignment
1-8-46	Enhanced 911 Dialing Digit Assignment
4-54	Enhanced 911 CESID to Station Table

Notes

1. When CAMA trunk is maintenance busy or trouble out of service, E911 calls are routed to the trunk group assigned by E911 Alternate Route Assignment.
2. One trunk group or one route advance block can be specified per system.

Enhanced 911 Dialing Digit Assignment

System Mode	Submode	Data No.	PC Programming
1	8	46	Alt +AE

General Description

Use this Memory Block to specify the number of digits to be sent when a call is originated using Enhanced 911 (911 is dialed).

This feature requires System Software S3000 or higher.

Display

Data No. | Title | Setting Data

```
46:911 DIAL    911
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
1	11	911	
LK 5	LK 6	LK 7	

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK8 + 4 6 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-8-43	Enhanced 911 Trunk Assignment
1-8-44	Enhanced 911 Alternate Route Assignment
1-8-45	Enhanced 911 Alternate Route Assignment (Maintenance Busy)
4-54	Enhanced 911 CESID to Station Table

DISA ID Code Assignment

System Mode
1
Submode
9
Data No.
00
PC Programming
Alt +BD

General Description

Use this Memory Block to specify the Direct Inward System Access (DISA) ID Code numbers.

Display

ID Buffer No. (01~C0) | Data No. | Title | Setting Data

```
01/00:CODE -100
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK9 to access the Memory Block.	
3	Use the dial pad to enter the data. Setting Data: 2-digit DISA ID Code: 00~99 (00 no data) 3-digit DISA ID Code: 000~999 (000 no data) 4-digit DISA ID Code: 0000~9999 (0000 no data) ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0)~(9) to enter numeric data (Conf) to access the next ID buffer number (Redial) +1, 2, 3 = A, B, or C for Port Number ID Buffer Number: 01~99 A0~A9 B0~B9 C0	**Default Values** If DISA ID Code is assigned as 2-digit: ID Buffer Number 01~10 = DISA ID Code 10~19 ID Buffer Number 11~20 = DISA ID Code 20~29, etc. If DISA ID Code is assigned as 3-digit: ID Buffer Number 01~C0 = DISA ID Code 100~219 If DISA ID Code is assigned as 4-digit: ID Buffer Number 01~10 = DISA ID Code 1000~1009 ID Buffer Number 11~20 = DISA ID Code 1010~1019, etc.
4	Press (Transfer) to write the data.	
5	Press (Speaker) to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

Assign 000 (No Data) for stations that are not installed or stations that are denied DISA access.

DISA Password Effect/Invalid Selection

System Mode
1
Submode
9
Data No.
02
PC Programming
Alt+BD

General Description

Use this Memory Block to determine whether or not a Direct Inward System Access (DISA) Password is required. If NO is assigned, the calling party can use the DISA feature without a DISA Password.

Display

```
IO Buffer
  No.      Data                          Setting
(01~96)    No.          Title             Data

 01 / 02 : PASWORD = YS
 ----------------------------------------------
          TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK9 + (*) (2) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. Setting Data: NO (LK1) = DISA Password is not required. YS (LK2) = DISA Password is required. Assign with MB 1-1-46~48 [Access Code (1-,2-, or 3-Digit) Assignment].
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

Refer to Chapter 2 Guide to Feature Programming.

Call by Call Type of Network ID Assignment

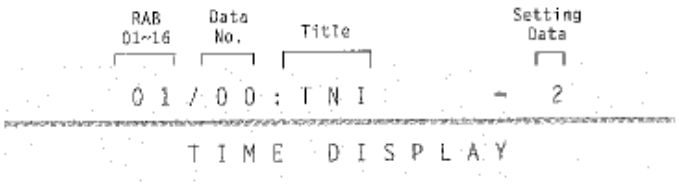
System Mode
1
Submode
10
Data No.
00
PC Programming
Alt +AY

General Description

Use this Memory Block to send the Type of Number ID (TNI) for each Route Advance Block (RAB). This setting data is sent in the TNI field of the NSF-IE (Network Specified Facility-Information Element) when making outgoing calls.

This feature requires System Software S4000 or higher.

Display



Programming Procedures

1	Go off-line.	
2	Press LK1 + LK10 to access the Memory Block.	**Default Values** All RABs 2
3	Enter data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. Conf to select next RAB No.	Setting Data — Meaning 0,1 — Reserved (Not Used) 2 — National Network Identification 3~7 — Reserved (Not Used)
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-06	Call by Call Facility Coding Value Assignment (Feature)

Related Programming

M.B. Number	Memory Block Name
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

Call by Call Type of Network ID Assignment (Memory Block 1-10-00) and ID Plan Assignment (Memory Block 1-10-01) are sent to the network only if Network ID Assignment is made using Memory Block 1-10-04.

Call by Call ID Plan Assignment

System Mode
1
Submode
10
Data No.
01
PC Programming
Alt+AY

General Description

Use this Memory Block to send the Network ID Plan (NIP) for each Route Advance Block (RAB). This setting data is sent in the NIP field of the NSF-IE (Network Specified Facility-Information Element) when making outgoing calls.

This feature requires System Software S4000 or higher.

Display

RAB 01~16 | Data No. | Title | Setting Data

```
01/01:NIP      =  01
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK10 + (*) (7) to access the Memory Block.	**Default Values** All RABs 01
3	Enter data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. (Conf) to select next RAB No.	Setting Data — Meaning 00 — Reserved (Not Used) 01 — Interexchange Carrier Code 02~15 — Reserved (Not Used)
4	Press (Transfer) to write the data.	
5	Press (Speaker) to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)

Related Programming

M.B. Number	Memory Block Name
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

Call by Call Type of Network ID Assignment (Memory Block 1-10-00) and ID Plan Assignment (Memory Block 1-10-01) are sent to the network only if Network ID Assignment is made using Memory Block 1-10-04.

Call by Call Type of Number Assignment

System Mode
1
Submode
10
Data No.
02
PC Programming
Alt +AY

General Description

Use this Memory Block to send the Type of Number (TN) for each Route Advance Block (RAB). This setting data is sent in the TN field of the CPN-IE (Called Party Number-Information Element) when making outgoing calls.

This feature requires System Software S4000 or higher.

Display

```
RAB      Data                          Setting
01~16    No.     Title                 Data
 ┌┐      ┌┐      ┌┐                     ┌┐
 0 1 / 0 2 : T N              =   0
 ────────────────────────────────────────────
          T I M E   D I S P L A Y
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK10 + (*) (2) to access the Memory Block. **Default Values** All RABs 0
3	Enter data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. Conf to select next RAB No. Setting Data — Meaning 0 — Unknown 1 — International Number 2 — National 3 — Network Specific Number 4 — Subscriber (Local number) 5~7 — Not Used
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment

Related Programming

M.B. Number	Memory Block Name
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

Call by Call Type of Network ID Assignment (Memory Block 1-10-00) and ID Plan Assignment (Memory Block 1-10-01) are sent to the network only if Network ID Assignment is made using Memory Block 1-10-04.

Call by Call Numbering Plan ID Assignment

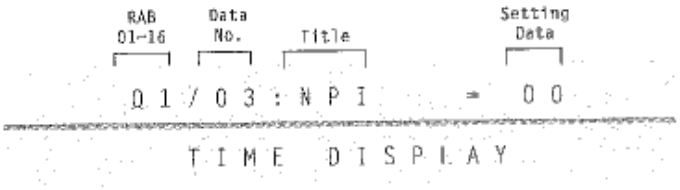
System Mode
1
Submode
10
Data No.
03
PC Programming
Alt +AY

General Description

Use this Memory Block to send the Numbering Plan Identification (NPI) for each Route Advance Block (RAB). This setting data is sent in the NPI field of the CPN-IE (Called Party Number-Information Element) when making outgoing calls.

This feature requires System Software S4000 or higher.

Display



Programming Procedures

1	Go off-line.
2	Press LK1 + LK10 + (*) (3) to access the Memory Block. **Default Values** All RABs 00
3	Enter data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. Conf to select next RAB No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Setting Data	Meaning
00	Unknown
01	ISDN/Telephony Numbering Plan
02	Reserved (Not Used)
03	Data Numbering Plan (Future)
04~08	Not Used
09	Private Numbering Plan
10~15	Not Used

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment

Related Programming

M.B. Number	Memory Block Name
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-04	Call by Call Network ID Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

Call by Call Type of Network ID Assignment (Memory Block 1-10-00) and ID Plan Assignment (Memory Block 1-10-01) are sent to the network only if Network ID Assignment is made using Memory Block 1-10-04.

Call by Call Network ID Assignment

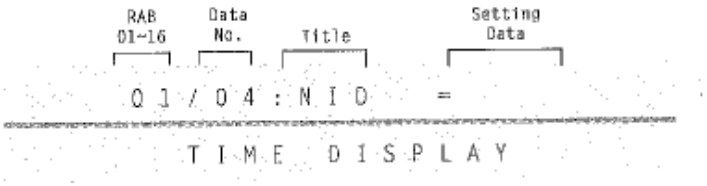
System Mode
1
Submode
10
Data No.
04
PC Programming
Alt +AY

General Description

Use this Memory Block to send the Network Identification (NID) for each Route Advance Block (RAB). This setting data is sent in the NID field of the CIC-IE (Carrier Identification Code-Information Element) when making outgoing calls.

This feature requires System Software S4000 or higher.

Display



Programming Procedures

1	Go off-line.	
2	Press LK1 + LK10 + (*) (4) to access the Memory Block.	**Default Values** All RABs Unspecified
3	Enter three or four digit data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. Conf to select next RAB No. Hold to clear Setting Data.	
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)

Related Programming

M.B. Number	Memory Block Name
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

1. Call by Call Type of Network ID Assignment (Memory Block 1-10-00) and ID Plan Assignment (Memory Block 1-10-01) are sent to the network only if Network ID Assignment is made using Memory Block 1-10-04.
2. A three or four digit code is used to specify the setting data.

Call by Call Facility Coding Value Assignment (Service)

System Mode
1
Submode
10
Data No.
05
PC Programming
Alt +AY

General Description
Use this Memory Block to specify the Facility Coding Value (Service) for each Route Advance Block (RAB). This setting data is sent in the FCV-S field of the NSF-IE (Network Specific Facility Code-Information Element) when making outgoing calls.

This feature requires System Software S4000 or higher.

Display

Rab 01-16 | Data No. | Title | Setting Data

```
01/05:FCV-S = 00
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK10 + * 5 to access the Memory Block. **Default Values** All RABs 00 (None)
3	Enter three or four digit data using the dial pad. Use * and # to move the cursor. Use 0 ~ 9 to enter data. Conf to select next RAB No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

PRT SW1 Setting	Setting Data	Meaning
5ESS & 4ESS (AT&T)	00	Non-CBC Route Advance block (None)
	01	SDN (Software Defined Network)
	02	MEGACOM800
	03	MEGACOM
	06	ACCUNET (Future)
	08	International 800
	16	AT&T MultiQuest (900 Service)
NI-2 (Nortel)	17	INWATS
	18	OUTWATS
	19	Foreign Exchange (FX)
	20	Tie Trunk (TIE)
DMS100 (Nortel)	01	Private
	02	INWATS
	03	OUTWATS
	04	Foreign Exchange (FX)
	05	Tie Trunk (TIE)

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

The PRT SW1 is a four-position DIP switch on the PRT(1)-U10 ETU that is used to select the desired Application.

Call by Call Facility Coding Value Assignment (Feature)

System Mode
1
Submode
10
Data No.
06
PC Programming
Alt +AY

General Description

Use this Memory Block to specify the Facility Coding Value (Feature) for each Route Advance Block (RAB). This setting data is sent in the FCV-F field of the NSF-IE (Network Specific Facility Code-Information Element) when making outgoing calls.

This feature requires System Software S4000 or higher.

Display

Rab 01-16 | Data No. | Title | Setting Data

```
01/06:FCV-F = 00
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK10 + (*) (6) to access the Memory Block. **Default Values** All RABs 00
3	Enter three or four digit data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. Conf to select next RAB No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

PRT SW1 Setting	Setting Data	Meaning
	00	Non-CBC Route Advance block (None)
	01~04	Reserved (Not Used)
5ESS (AT&T)	05	Operator (Local Exchange)
5ESS (AT&T)	06	Operator (Default-Common Carrier)
	07~31	Reserved (Not Used)

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment

Related Programming

M.B. Number	Memory Block Name
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

The PRT SW1 is a four-position DIP switch on the PRT(1)-U10 ETU that is used to select the desired Application.

Call by Call Service Parameter Assignment

System Mode
1
Submode
10
Data No.
07
PC Programming
Alt +AY

General Description

Use this Memory Block to specify the Service Parameters for each Route Advance Block (RAB). This setting data is sent to the Service Parameters in the NSF-IE (Network Specific Facility Code-Information Element) when making outgoing calls. Service Parameter Assignment is an Identification Number that is assigned at the time of subscribing with the carrier for the different services.

This feature requires System Software S4000 or higher.

Display

RAB 01~16 | Data No. | Title | 1~5 | Setting Data 1 | Setting Data 2

```
01/07:SP 1=0-000
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK10 + (*) (7) to access the Memory Block.	**Default Values** All RABs 0-000
3	Enter 1~5 digits for Setting Data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. Conf to select next RAB No. Setting Data No. 1 = 0 or 1 for each entry Setting Data No. 2 = Three-digit code 000~127 for each entry	
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment

Related Programming

M.B. Number	Memory Block Name
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

The Service Parameter is provided by the ISDN Service Provider.

Call by Call Max Digit Assignment

System Mode
1
Submode
10
Data No.
08
PC Programming
Alt +AY

General Description

Use this Memory Block to specify the maximum digits dialed for each Route Advance Block (RAB). When the maximum digits are dialed, the PRT(1)-U10 ETU sends SETUP information to the ISDN Provider (Network).

This feature requires System Software S4000 or higher.

Display

RAB 01~16 | Data No. | Title | Setting Data 00~24

```
01/08:MDGT    =  00
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK10 + (*) (0) to access the Memory Block.	**Default Values** All RABs 00 (No Limit)
3	Enter data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. Conf to select next RAB No. Setting Data = 00 (No Limit) = 01~24 digits	
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment

Related Programming

M.B. Number	Memory Block Name
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Call by Call Simulated Facility Group Assignment

System Mode
1
Submode
10
Data No.
09
PC Programming
Alt +AY

General Description

Use this Memory Block to specify the SFG (Simulated Facility Group) for each Route Advance Block (RAB).

This feature requires System Software S4000 or higher.

Display

RAB 01~16 | Data No. | Title | Setting Data 00~16

```
01/09:SFG    = 00
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK10 + (*) (0) to access the Memory Block.	**Default Values** All RABs 00
3	Enter data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (0) to enter data. (Conf) to select next RAB No. Setting Data = 00 (Not Specified) = 01~16	
4	Press (Transfer) to write the data.	
5	Press (Speaker) to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)

Related Programming

M.B. Number	Memory Block Name
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Notes

This Memory Block specifies which RAB is linked to an SFG.

Call by Call Outgoing SFG Assignment

System Mode
1
Submode
10
Data No.
20
PC Programming
Alt +AY

General Description

Use this Memory Block to specify the number of outgoing calls for the SFG (Simulated Facility Group).

This feature requires System Software S4000 or higher.

Display

```
SFG      Data                      Setting
01-16    No.    Title              Data
 |        |      |                  |
 01 / 20 : 0 G                  =  99
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK1 + LK10 + (*) (*) (2) (0) to access the Memory Block. **Default Values** All SFGs 99
3	Enter data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. Conf to select next SFG No. Setting Data = 01~16 for Electra Elite 48 = 01~64 for Electra Elite 192 = 99 (Not Specified)
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment

Related Programming

M.B. Number	Memory Block Name
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-21	Call by Call Outgoing/ Incoming SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Call by Call Outgoing/Incoming SFG Assignment

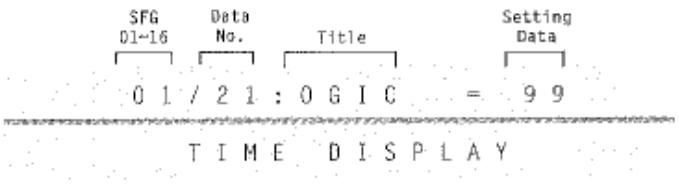
System Mode
1
Submode
10
Data No.
21
PC Programming
All +AY

General Description

Use this Memory Block to specify the number of outgoing/incoming calls for the SFG (Simulated Facility Group).

This feature requires System Software S4000 or higher.

Display



Programming Procedures

1	Go off-line.
2	Press LK1 + LK10 + (*) (*) (2) (1) to access the Memory Block. **Default Values** All SFGs 99
3	Enter three or four digit data using the dial pad. Use (*) and (#) to move the cursor. Use (0) ~ (9) to enter data. [Conf] to select next SFG No. Setting Data = 01~16 for Electra Elite 48 = 01~64 for Electra Elite 192 = 99 (Not Specified)
4	Press [Transfer] to write the data.
5	Press [Speaker] to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment

Related Programming

M.B. Number	Memory Block Name
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-22	Call by Call Incoming Type Selection
1-13-03	Call by Call Service Selection
4-12	Line Key Selection for Telephone Mode

Call by Call Incoming Type Selection

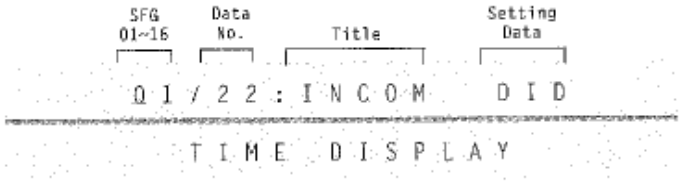
System Mode
1
Submode
10
Data No.
22
PC Programming
Alt +AY

General Description

Use this Memory Block to specify the type of trunk for each Simulated Facility Group (SFG).

This feature requires System Software S4000 or higher.

Display



Settings

LK 1	LK 2	LK 3	LK 4
CO	DID		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK10 + (*) (*) (2) (2) to access the Memory Block.
3	Press corresponding. Use (*) and (#) to move the cursor. Conf to select next RAB No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
1-1-30	Route Advance Block Assignment
1-1-46, 47, 48	Access Code (1-, 2-, or 3-Digit) Assignment
1-10-00	Call by Call Type of Network ID Assignment
1-10-01	Call by Call ID Plan Assignment
1-10-02	Call by Call Type of Number Assignment
1-10-03	Call by Call Numbering Plan Assignment
1-10-04	Call by Call Network ID Assignment

Related Programming

M.B. Number	Memory Block Name
1-10-04	Call by Call Network ID Assignment
1-10-05	Call by Call Facility Coding Value Assignment (Service)
1-10-06	Call by Call Facility Coding Value Assignment (Feature)
1-10-07	Call by Call Service Parameter Assignment
1-10-08	Call by Call Max Digit Assignment
1-10-09	Call by Call Simulated Facility Group Assignment
1-10-20	Call by Call Outgoing SFG Assignment
1-10-21	Call by Call Outgoing/Incoming SFG Assignment
1-13-03	Call by Call Service Selection

Notes

If DID selection is made for an SFG, Refer to Chapter 2, Guide to Feature Programming, for correct routing of calls for Direct Inward Dialing.

T1 Signal Format Selection

System Mode
1
Submode
11
Data No.
00
PC Programming
Alt +AD

General Description

Use this Memory Block to specify the signal format of the T1 trunk connected to the system. The signal format used (12- or 24-Multiframe) depends on the channel service unit/ demarcation (CSU/D mark) equipment being used.

Display

DTI No. (01~03) | Data No. | Title | Setting Data

```
01/00:FRAME    -24
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
12 (SF)	24 (ESF)		
LK 5	**LK 6**	**LK 7**	**LK 8**

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK11 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ SF = Superframe Format (12-Multiframe) ESF = Extended Superframe Format (24-Multiframe)
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
7-1	Card Interface Slot Assignment

Notes

The DTI-U10/20 ETU must be assigned in the system to set this Memory Block.

Clear Channel Selection

System Mode
1
Submode
11
Data No.
01
PC Programming
[Alt]+AD

General Description

Use this Memory Block to specify the clear channel selection. If the Zero Byte Time channel is available, the CLKG-U10 Unit cannot extract a clock signal from the T1 trunk. The T1 trunk modifies the Zero Byte Time channel to extract a clock signal for the CLKG-U10 Unit.

Display

DTI No. (01~03) | Data No. | Title | Setting Data

```
01/01:0BYTE=ZCS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
ZCS	B8ZS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK11 + 0 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
7-1	Card Interface Slot Assignment

Notes

The DTI-U10/20 ETU must be assigned in the system to set this Memory Block.

Line Length Selection

System Mode
1
Submode
11
Data No.
02
PC Programming
[Alt]+AD

General Description

Use this Memory Block to specify the distance, in feet, between the channel service unit/ demarcation (CSU/D mark) and the DTI-U10/20 ETU. This specifies the equalization values of the detect signal in the DTI-U10/20 ETU.

Display

DTI No. (01-03) | Data No. | Title | Setting Data

```
01/02:LINE        =1
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
1 (0 - 131)	2 (132 - 262)	3 (263 - 393)	4 (394 - 524
LK 5	LK 6	LK 7	LK 8
5 (525 - 655)			

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK11 + (0) (2) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Line Key	LCD Indication	Description
LK 1	1	0~131 feet
LK 2	2	132~262 feet
LK 3	3	262~393 feet
LK 4	4	394~524 feet
LK 5	5	525~655 feet

Related Programming

M.B. Number	Memory Block Name
7-1	Card Interface Slot Assignment

Notes

The DTI-U10/20 ETU must be assigned in the system to set this Memory Block.

T1 Channel Selection

System Mode
1
Submode
11
Data No.
05
PC Programming
Alt +AD

General Description

Use this Memory Block to specify the digital trunk interface (DTI) channel numbers to be used. DTI Trunks 1 and 2 have a maximum of 24 channels, and DTI Trunk 3 has a maximum of 16 channels.

Display

DTI No. (01-03) | Data No. | Title | Channel No.

01 / 05 : CHANEL | 01

TIME DISPLAY

Programming Procedures

1. Go off-line.
2. Press LK1 + LK11 + (0) (5) to access the Memory Block.
3. Press the corresponding CO/PBX line key to select DTI channel number.
   Channel Numbers (01~24) correspond to CO/PBX line key.

CO/PBX Line Key	Channel No.			
	DTI No. 1	DTI No. 2	DTI No. 3	
01~08	01~08	25~32	49~56	Page 1
09~16	09~16	33~40	57~64	Page 2
17~24	17~24	41~48	N/A	Page 3

CO/PBX Line LED	Off	On
Data	No (Not Assigned)	Yes (Assigned)

The shaded selection is the default.

   (Recall) to go to the next page.
4. Press (Transfer) to write the data.
5. Press (Speaker) to go back on-line.

Default Values

DTI No. 1 Channels 01~24 = Off
DTI No. 2 Channels 25~48 = Off
DTI No. 3 Channels 49~64 = Off

Related Programming

M.B. Number	Memory Block Name
7-1	Card Interface Slot Assignment

Notes

1. The DTI-U10/20 ETU must be assigned in the system to set this Memory Block.
2. The Electra Elite 48 system has a maximum of 16 DTI channels.

Signaling Selection

System Mode
1
Submode
11
Data No.
06
PC Programming
Alt+AD

General Description

Use this Memory Block to specify Loop Start (LS) Trunk Signaling or Ground Start (GS) Trunk Signaling when using T1.

Display

DTI No. (01-03) | Data No. | Title | Channel No. | Setting Data

```
01/06:TRNK01=LS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
LS	GS		
		LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK11 + 0 6 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to advance to the next Channel No.
5	Press Transfer to write the data.
6	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-11-07	DTI Trunk Type Assignment
7-1	Card Interface Slot Assignment

Notes

The DTI-U10/20 ETU must be assigned in the system to set this Memory Block.

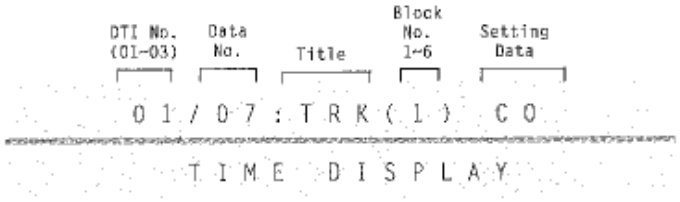
DTI Trunk Type Assignment

System Mode
1
Submode
11
Data No.
07
PC Programming
Alt+AD

General Description

Use this Memory Block to assign the trunk type (CO/DID/E&M Tie line) four channels at a time. Assignment to an individual channel is impossible.

Display



Settings

LK 1	LK 2	LK 3	LK 4
CO	E&M	DID	
LK 6	LK 7	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1. Go off-line.
2. Press LK1 + LK11 + 0 7 to access the Memory Block.
3. Press the corresponding CO/PBX line key to change the data option.

Block No.	4-Channel Unit		
	DTI No. 1	DTI No. 2	DTI No. 3
1	01~04	25~28	49~52
2	05~08	29~32	53~56
3	09~12	33~36	57~60
4	13~16	37~40	61~64
5	17~20	41~44	N/A
6	21~24	45~48	N/A

☞ Use dial pad keys to change DTI Number (01~03)

4. Press Transfer to write the data.
5. Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-11-06	Signaling Selection
7-1	Card Interface Slot Assignment

Notes

1. A DTI-U10/20 ETU must be assigned in the system to set this Memory Block.
2. If the default setting is changed to E&M or DID, the affected trunks are automatically reassigned to Trunk Group 00. If trunks 00 ~ 08 are affected, default line key assignment for all Multiline Terminals changes to Not Used and must also be reassigned.

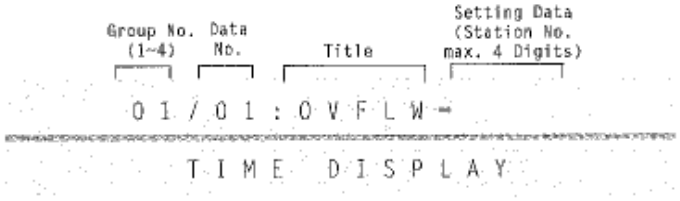
ACD/UCD Group Overflow Destination Assignment

System Mode	Submode	Data No.	PC Programming
1	12	01	Alt + AA

General Description

Use this Memory Block to specify the station or Station Hunt group where the overflow call of each Automatic Call Distribution/Uniform Call Distribution (ACD/UCD) group is routed when incoming calls overflow.

Display



Programming Procedures

1	Go off-line.	
2	Press LK1 + LK12 + (*) (7) to access the Memory Block.	
3	Enter data using the dial pad. ☞ The following are used when entering data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data Setting Data: Station No. (00~99) 2-digit (00~99) 3-digit (000~999) 4-digit (0000~9999)	**Default Values** Not Specified
4	Press (Transfer) to write the data.	
5	Press (Speaker) to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
1-1-47	Access Code (2-Digit) Assignment
1-1-48	Access Code (3-Digit) Assignment
1-2-03	2-, 3-, 4-Digit Station Number Selection
1-8-25	ACD/UCD Group Agent Assignment

Notes

1. An ACD/UCD Group Pilot Number cannot be programmed as the overflow destination.
2. UCD and ACD cannot be installed in the same system.
3. ACD is **not** supported in the Electra Elite 48 system.

ACD/UCD Overflow Time Selection

System Mode
1
Submode
12
Data No.
02
PC Programming
Alt +AA

General Description

Use this Memory Block to specify the maximum time a waiting Automatic Call Distribution/ Uniform Call Distribution (ACD/UCD) call remains at an ACD/UCD group before overflowing to a specified Station or Station Hunt group.

Display

Group No. (1~4) | Data No. | Title | Setting Data

```
01/02:OVFTMR=60
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
∞	10	20	30
LK 5	LK 6	LK 7	LK 8
60	120	180	240

The shaded selection is the default. Times are in seconds.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK12 + (*) (2) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
1-1-47	Access Code (2-Digit) Assignment
1-1-48	Access Code (3-Digit) Assignment
1-2-03	2-, 3-, 4-Digit Station Number Selection
1-8-25	ACD/UCD Group Agent Assignment
1-12-01	ACD/UCD Group Overflow Destination Assignment

Notes

1. An ACD/UCD Group Pilot Number cannot be programmed as the overflow destination.
2. ACD is **not** supported in the Electra Elite 48 system.

PRT Channel Assignment

System Mode
1

General Description

PRT Signal Format Selection

System Mode	Submode	Data No.	PC Programming
1	13	01	Alt +AN

General Description

Use this Memory Block to specify the signal format of the PRT trunk connected to the system. The signal format used (12- or 24-Multiframe) depends on the channel service unit/ demarcation (CSU/D mark) equipment being used.

This feature requires System Software S3000 (V3.01) or higher.

Display

PRT No. | Data No. | Title | Setting Data

```
01/01:FRAME=24
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
12 (SF)	24 (ESF)		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK13 + # 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-13-00	PRT Channel Assignment
1-13-01	Signal Format Selection

Clear Channel Selection

System Mode	Submode
1	

General Description

[illegible] Digital to specify the clear channel selection. If the Zero Rule Time channel is

Call by Call Service Selection

System Mode
1
Submode
13
Data No.
03
PC Programming
Alt +AN

General Description

Use this Memory Block to specify whether or not Call by Call Service is activated per PRT.

This feature requires System Software S4000 or higher.

Display

PRT No.	Data No.	Title	Setting Data
01 /	03 :	CBC SV	NO

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
YS	NO		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK13 + # 3 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-13-00	PRT Channel Assignment
1-13-02	Clear Channel Selection

ARS Allow/Deny Selection

System Mode
1
Submode
14
Data No.
00
PC Programming
[Alt]+AB

General Description

Use this Memory Block to specify whether or not ARS) is Allowed or Denied system wide.

This feature requires System Software S4000 or higher.

Display

Data No. | Title | Setting Data

```
00 : ARS                    NO
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO (Deny)	YES (Allow)		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.

ARS Dialing Assignment

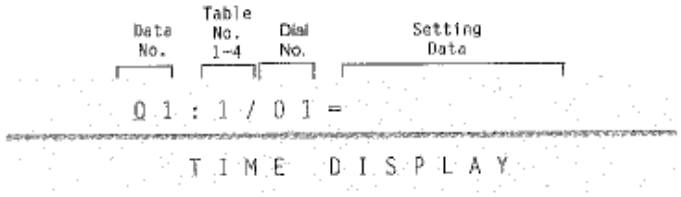
System Mode	Submode	Data No.	PC Programming
1	14	01	Alt +AB

General Description

Use this Memory Block to assign a dialing plan to one of four possible ARS Tables. Each table contains 128 maximum dialing assignments for the selected dialing plan.

This feature requires System Software S4000 or higher.

Display



Programming Procedures

1	Go off-line.
2	Press LK1 + LK14 + (#) (1) to access the Memory Block.
3	Use dial pad keys to select Table number ☞ Use (*) to move cursor left. Use (#) to move cursor right. Use (Hold) to clear setting data. Table No 1~4 Entry No. 01~C8 Setting Data 0~9, (#), ✱, #, X, P, N (8 Digit Maximum) **Default Values:** None
4	Operation Data Includes:
5	Press (Transfer) to write the data.
6	Press (Speaker) to go back on-line.

Operation Data	Dial	Operation
X	0~9, ✱, #	Redial + 7
P	0 and 1	Redial + 8
N	2~9	Redial + 9
✱	✱	Redial + ✱
#	#	Redial + #

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
4-40	LCR Class Selection
1-1-30	Route Advance Block Assignment

Related Programming

M.B. Number	Memory Block Name
1-8-08	Class of Service (Station) Feature Selection 2
1-14-00	ARS Allow/Deny Selection
1-14-02	ARS Dial Allow/Deny Selection
1-14-04	ARS Outgoing Route Assignment
1-14-06	ARS Digit Add Assignment
1-14-03	ARS Route Assignment
1-14-05	ARS Digit Delete Assignment

Notes

Entries A0~C8 are 100~128.

ARS Dial Allow/Deny Selection

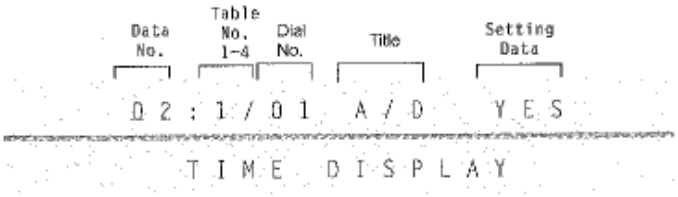
System Mode	Submode	Data No.	PC Programming
1	14	02	Alt +AB

General Description

Use this Memory Block to Allow or Deny digits that are entered in the ARS dialing assignment to be routed using the ARS feature.

This feature requires System Software S4000 or higher.

Display



Settings

LK 1	LK 2	LK 3	LK 4
YES	NO		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK14 + (#) (2) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the Setting Data option. Use dial pad keys (0) ~ (9) to select Data ☞ Press (*) to move cursor left. Press (#) to move cursor right.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
4-40	LCR Class Selection
1-1-30	Route Advance Block Assignment
1-8-08	Class of Service (Station) Feature Selection 2
1-14-00	ARS Allow/Deny Selection
1-14-01	ARS Dial Allow/Deny Selection
1-14-04	ARS Outgoing Route Assignment

Related Programming

M.B. Number	Memory Block Name
1-14-06	ARS Digit Add Assignment
1-14-03	ARS Route Assignment
1-14-05	ARS Digit Delete Assignment

Notes

1. Entries A0~C8 are 100~128.
2. If NO (Deny) is set, programming the other Memory Blocks for this dialing assignment is unnecessary.

ARS Route Table Number Assignment

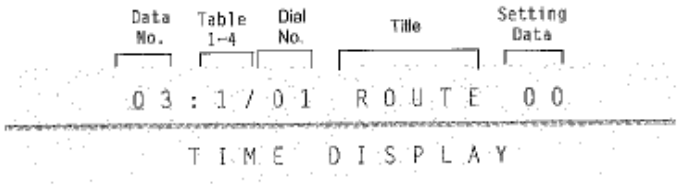
System Mode
1
Submode
14
Data No.
03
PC Programming
Alt +AB

General Description

Use this Memory Block to assign each ARS Dialing Assignment to an ARS Route Assignment.

This feature requires System Software S4000 or higher.

Display



Programming Procedures

1	Go off-line.
2	Press LK1 + LK14 + (#) (3) to access the Memory Block.
3	Use dial pad keys to select Table number (1~4), Dial number (01~C8), and Route number (01~32). Use dial pad keys (0) ~ (9) to select Data ☞ Use (*) to move cursor left. Use (#) to move cursor right.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
4-40	LCR Class Selection
1-1-30	Route Advance Block Assignment
1-8-08	Class of Service (Station) Feature Selection 2
1-14-00	ARS Allow/Deny Selection
1-14-01	ARS Dialing Assignment
1-14-02	ARS Dial Allow/Deny Selection
1-14-04	ARS Outgoing Route Assignment
1-14-06	ARS Digit Add Assignment
1-14-05	ARS Digit Delete Assignment

Notes

1. Entries A0~C8 are 100~128.
2. If ARS Route Assignment 00 is selected, the call is sent to Trunk Group 01 exactly as it was dialed.

ARS Trunk Group to Route Number Assignment

System Mode
1
Submode
14
Data No.
04
PC Programming
Alt +AB

General Description

Use this Memory Block to specify whether a Trunk Group or a Route Advance Block is used for each Route assignment.

This feature requires System Software S4000 or higher.

Display

Data No. | Route No. | Setting Data 1 | Setting Data 2

```
04/01=NORMAL
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NORMAL (Originate)	TKGP (01~32)		
LK 5	LK 6	LK 7	LK 8
RAB (01~16)			

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK1 + LK14 + # 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the Setting Data 1 option. Use dial pad keys 0 ~ 9 to select Data Setting Data 2 Trunk Group Number (01~32) or Setting Data 2 RAB (1~16). ☞ Press * to move cursor left. Press # to move cursor right.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
4-40	LCR Class Selection
1-1-30	Route Advance Block Assignment
1-8-08	Class of Service (Station) Feature Selection 2
1-14-00	ARS Allow/Deny Selection

Related Programming

M.B. Number	Memory Block Name
1-14-01	ARS Dialing Assignment
1-14-02	ARS Dial Allow/Deny Selection
1-14-03	ARS Route Assignment
1-14-06	ARS Digit Add Assignment

Notes

The maximum number of digits that can be deleted cannot exceed the number of digits used to route the call.

ARS Digit Add Assignment

System Mode	Submode	Data No.	PC Programming
1	14	06	All+AB

General Description

Use this Memory Block to specify the number of digits to add to the Route assignment.

This feature requires System Software S4000 or higher.

Display

Data No. | Route No. | Setting Data

```
06 / 01 =
```

TIME DISPLAY

Programming Procedures

1	Go off-line.	
2	Press LK1 + LK14 + (#) (6) to access the Memory Block.	
3	Use dial pad keys (0) ~ (9), (*), (#) to select Route No. (01~32) and enter the additional dialing digits. ☞ Use (*) to move cursor left. Use (#) to move cursor right. Use [Recall] + (*) to enter (*). Use [Recall] + (#) to enter (#).	**Default Values** Not Specified
4	Press [Transfer] to write the data.	
5	Press [Speaker] to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-03	Trunk-to-Trunk Group Assignment
4-40	LCR Class Selection
1-1-30	Route Advance Block Assignment
1-8-08	Class of Service (Station) Feature Selection 2
1-14-00	ARS Allow/Deny Selection
1-14-01	ARS Dialing Assignment
1-14-02	ARS Dial Allow/Deny Selection
1-14-03	ARS Route Assignment
1-14-05	ARS Digit Delete Assignment

Related Programming

M.B. Number	Memory Block Name
1-14-04	ARS Outgoing Route Assignment

Notes

A maximum of 10 digits can be added to a route assignment.

Trunk to Tenant Assignment

Tenant Mode
2
Submode
—
Data No.
01
PC Programming
Alt +BN

General Description

Use this Memory Block to assign CO/PBX lines to a tenant.

Display

Tenant No. (00~47) | Data No. | Title | Trunk

```
00/01:TRK-TNT|01
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
01	02	03	04
LK 5	LK 6	LK 7	LK 8
05	06	07	08

(Page 2)

LK 1	LK 2	LK 3	LK 4
09	10	11	12
LK 5	LK 6	LK 7	LK 8
13	14	15	16

(Page 3)

LK 1	LK 2	LK 3	LK 4
17	18	19	20
LK 5	LK 6	LK 7	LK 8
21	22	23	24

(Page 4)

LK 1	LK 2	LK 3	LK 4
25	26	27	28
LK 5	LK 6	LK 7	LK 8
29	30	31	32

(Page 5)

LK 1	LK 2	LK 3	LK 4
33	34	35	36
LK 5	LK 6	LK 7	LK 8
37	38	39	40

(Page 6)

LK 1	LK 2	LK 3	LK 4
41	42	43	44
LK 5	LK 6	LK 7	LK 8
45	46	47	48

(Page 7)

LK 1	LK 2	LK 3	LK 4
49	50	51	52
LK 5	LK 6	LK 7	LK 8
53	54	55	56

(Page 8)

LK 1	LK 2	LK 3	LK 4
57	58	59	60
LK 5	LK 6	LK 7	LK 8
61	62	63	64

☞ All line keys are assigned.

Programming Procedures

1	Go off-line.
2	Press LK2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data Conf to go to the next Tenant No. Recall to go to the next page Feature to go to the previous page
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Default Values

Tenant 00	Tenant 01~47
Lines keys 01~08 are assigned CO.	Not assigned

CO/PBX Line LED	Off	On
Data	No (Not Assigned)	Yes (Assigned)

Related Programming

M.B. Number	Memory Block Name
2-05	Line Key Selection
4-09	Telephone to Tenant Assignment

Notes

If data is changed while the system is busy, DATA ENTRY is displayed at the programming station until the system becomes idle.

Line Key Selection

Tenant Mode
2
Submode
—
Data No.
05
PC Programming
Alt +BN

General Description

Use this Memory Block to select Tenant-Wide Mode or Telephone Mode line key assignment for each tenant.

Display

Tenant No. (00–47) | Data No. | Title | Setting Data

```
00/05:MODE    TEL
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
TNAT	TEL		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK2 + 0 5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
2-06	Line Key Selection for Tenant Mode
4-12	Line Key Selection for Telephone Mode

Notes

1. Mixed use of Tenant-Wide Mode and Telephone Mode in the system is permitted.
2. Tenant-Wide Mode:

   Memory Block 2-06 (Line Key Selection for Tenant Mode) permits assignment of any desired feature to each of the CO/PBX line keys. All the telephones in a tenant are assigned the same features.
3. Telephone Mode:

   Memory Block 4-12 (Line Key Selection for Telephone Mode) permits assignment of any feature to each of the CO/PBX line keys. Each telephone can be assigned different features.

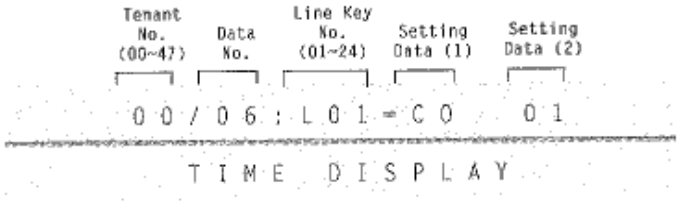
Line Key Selection for Tenant Mode

Tenant Mode
2
Submode
—
Data No.
06
PC Programming
Alt +BN

General Description

Use this Memory Block to assign functions to each CO/PBX line key on each telephone in a tenant specified as Tenant Mode in Memory Block 2-05 (Line Key Selection).

Display



Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
NON	CO (CO/PBX)	FW BNA	FW ALL
LK 5	LK 6	LK 7	LK 8
C	F A	TKGP	ADV

(Page 2)

LK 9	LK102	LK 11	LK 12
SIE	MIC	H SET	SCROLL (for Caller ID)
LK 13	LK 14	LK 15	LK 16
DND (On/Off)	LOG (On/Off)	BGM (On/Off)	ICM

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK2 + 0 0 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. The operation data includes:

Default Values

Tenant 00	Tenant 01~47
CO/PBX lines 01~08)	Not assigned

Setting Data

Line Key	Setting Data (1)	LCD Indication	Setting Data (2)
1	Not Specified	NON	N/A
2	CO	CO	01~64
3	CFW - BNA	FW BNA	N/A
4	CFW - ALL	FW ALL	N/A
5	Call Appearance Block (00~47)	C	Call Appearance Key 01~24
6	Feature Access	FA	01~10
7	Trunk Group	TKGP	01~32
8	Route Advance	ADV	01~16
9	Secondary Incoming Extension	SIE	Telephone Port No. 01~C0
10	Microphone	MIC	N/A
11	Headset	H SET	N/A
12	Scroll Key	SCROLL	N/A
13	DND On/Off	DND	N/A
14	Log On/Off	LOG	N/A
15	BGM On/Off	BGM	N/A
16	Intercom Key	ICM	N/A

☞ The following are used when entering data:
- * to move the cursor left
- # to move the cursor right
- 0 ~ 9 to enter the numeric data
- Conf to go to the next Tenant No.

4	Press CO/PBX LK7; TKGP is displayed.
5	Enter 0 3 (for RT 05) using the dial pad.
6	Press Transfer ; data of CO/PBX LK 01~24 is displayed successively.
7	After entering data for CO/PBX LK24, press Transfer to write the data.
8	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
2-05	Line Key Selection

Notes

1. Specify Call Appearance as the call appearance number of Call Appearance Block numbers from Memory Block 4-43 (Station to Call Appearance Block Assignment).
2. Use this Memory Block to assign the following functions to each of the CO/PBX line keys on each telephone in a tenant specified as Tenant Mode in Memory Block 2-05 (Line Key Selection):
   - Not specified (NON)
   - CO/PBX Line (CO) 01~64
   - CFW - BNA
   - CFW - ALL
   - Call Appearance (C) 00~47, 01~24 (Each Call Appearance Block may have a maximum of 24 Call Appearance keys).
   - Feature Access (FA) 01~10
   - Trunk Group (TKGP) 01~32
   - Route Advance Block (ADV) 01~16
   - Secondary Incoming Extension (SIE) 01~C0
   - Microphone (MIC)
   - Headset (H SET)
   - Scroll Key
   - DND/Break Mode
   - Log On/Off
   - BGM On/Off
   - Intercom Key

System Speed Dial Display Assignment

Tenant Mode
2
Submode
—
Data No.
07
PC Programming
Alt +BN

General Description

Use this Memory Block to specify whether or not confirmation of the Speed Dial numbers and messages stored in the system Speed Dial memory is allowed.

Display

Tenant No. (00~47) | Data No. | Title | Page No.

```
00/07:SPD DSP|01
TIME DISPLAY
```

Settings

(Page 1) When system Speed Dial is 80 buffers:

LK 1	LK 2	LK 3	LK 4
00~09	10~19	20~29	30~39
LK 5	LK 6	LK 7	LK 8
40~49	50~59	60~69	70~79

(Page 2)

LK 1	LK 2	LK 3	LK 4
LK 5	LK 6	LK 7	LK 8

(Page 1) When system Speed Dial is 1000 buffers:

LK 1	LK 2	LK 3	LK 4
000~099	100~199	200~299	300~399
LK 5	LK 6	LK 7	499
400~499	500~599	600~699	700~799

(Page 2)

LK 1	LK 2	LK 3	LK 4
800~899	900~999		
LK 5	LK 6	LK 7	LK 8

☞ All line keys are a default setting.

Programming Procedures

1	Go off-line.
2	Press LK2 + 0 7 to access the Memory Block.
3	Press the CO/PBX Line key. The LED indication changes to indicate the data each time the CO/PBX line key is pressed. ☞ Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter number data Recall to go to next page Feature to go to previous page Conf to go to the next Tenant No.
4	After entering data for all pages, press Transfer to write the data.
5	Press Speaker to go back on-line.

Default Values

All Speed Dial confirmation allowed

CO/PBX Line LED	Off	On
Data	No (Not Assigned)	Yes (Assigned)

The shaded selection is the default.

Related Programming

M.B. Number	Memory Block Name
1-1-35	Speed Dial Buffer Allocation
1-8-07	Class of Service (Attendant) Feature Selection 1

Notes

1. If Deny is specified, no display is presented even when a System Speed Dial call is originated.
2. Divide the Speed Dial numbers into groups and specify, per tenant, whether confirmation is allowed or denied.
3. Station Message Detail Recording (SMDR) prints telephone numbers.

ECR Relay to Tenant Assignment

Tenant Mode	Submode	Data No.	PC Programming
2	—	08	Alt +BN

General Description

Use this Memory Block to specify Tenant Assignment for External Tone Ring/Night Chime function.

Display

Tenant No. (00–47) | Data No. | Title

```
00/08:RLY TENANT
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
External Tone Relay 1	External Tone Relay 2	External Tone Relay 3	External Tone Relay 4
LK 5	LK 6	LK 7	LK 8
Night Chime			

Default not assigned.

Programming Procedures

1	Go off-line.	
2	Press LK2 + 0 8 to access the Memory Block.	
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: * to moves the cursor left # to moves the cursor right Conf to go to the next Tenant No.	**Default Values** All Tenants No Assignment
4	Press the Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-7-07	External Ring Relay Pattern Selection

Notes

1. By assigning Night Chime to a Tenant, incoming calls to the Tenant group in Night Mode can be answered using the Night Call Pickup Access Code.
2. The relays are fixed (nonprogrammable).
3. Night Chime must be assigned for Night Call Pickup to work. A relay may be assigned even if no ECR-U10 ETU is installed in the system.

Trunk Name/Number Assignment

CO/PBX Line Mode
3

Submode
—

Data No.
00

PC Programming
Alt +BCT

General Description

Use this Memory Block to specify telephone name/number for the CO/PBX lines accommodated so that the information is displayed when the CO/PBX Line is seized, or during an incoming call (S2000 or higher).

Display

CO/PBX No. (01~64) — Setting Data (13 digits maximum)

0 1 /

Trunk Status Selection

CO/PBX Line Mode
3
Submode
—
Data No.
02
PC Programming
Alt +BCT

General Description

Use this Memory Block to specify whether a CO/PBX line is used for call origination and termination or termination only.

Display

CO/PBX No. (01~64) | Data No. | Setting Data

```
01/02:OUT&IN
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
OUT&IN	IN		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

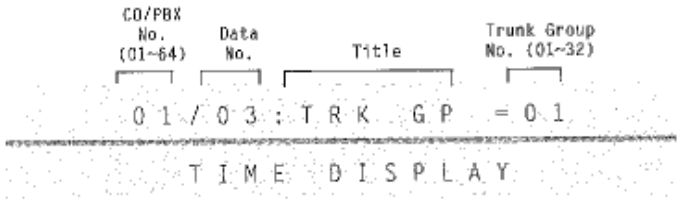
Trunk-to-Trunk Group Assignment

CO/PBX Line Mode
3
Submode
—
Data No.
03
PC Programming
Alt +BCT

General Description

Use this Memory Block to assign a Trunk Group Number (01~32) to each CO/PBX line.

Display



Programming Procedures

1	Go off-line.	
2	Press LK3 + Transfer + 0 3 to access the Memory Block.	
3	Enter data using the dial pad. ☞ Use the following enter data: * to moves the cursor left # to moves the cursor right 0 ~ 9 to enter numeric data Conf to go to the next CO/PBX Line No. Data: 00: Not set 01~32 : Trunk Group 01~32	**Default Values** CO/PBX lines (01~08) in Trunk Group 01 CO/PBX lines (09~64) in Trunk Group 00 All Tie lines in Trunk Group 02 All DID lines Trunk Group 00
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. When a Trunk group Access Code is dialed, an idle CO line is selected automatically and seized from the same Trunk group dialed (the CO line of either same tenant or another tenant can be seized).
2. By specifying the priority order, up to four routes (Trunk groups) can be selected in Memory Block 1-1-30 (Route Advance Block Assignment). Idle CO lines are selected and seized in this sequence.
3. If LCR is installed, Local Trunks should be assigned to Trunk Group 1. When a number is dialed that bypasses LCR, the system accesses Trunk Group 1 and dials the number.

Trunk-to-Trunk Transfer Yes/No Selection

CO/PBX Line Mode	Submode	Data No.	PC Programming
3	—	04	All+BCT

General Description

Use this Memory Block to specify whether or not to allow Trunk-to-Trunk Transfer.

Display

CO/PBX No. (01~64) | Title | Setting Data

```
01/04:TRF  NO
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YES		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 0 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter numeric data Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-8-07	Class of Service (Attendant) Feature Selection 1
1-8-08	Class of Service (Station) Feature Selection 2
3-05	Trunk Incoming Answer Mode Selection
3-06	Automatic Tandem Trunk Assignment
5-01	Tie Line Networking Tandem Connection Assignment

Notes

Assign YS to connect both trunks via Trunk-to-Trunk Transfer or Automatic Trunk-to-Trunk Transfer feature.

Trunk Incoming Answer Mode Selection

CO/PBX Line Mode
3
Submode
—
Data No.
05
PC Programming
Alt +BCT

General Description

Use this Memory Block to specify, per outside line, the incoming answer mode (Automatic Trunk-to-Trunk Transfer, Automated Attendant, or DISA).

Display

CO/PBX No. (01~64) | Data No. | Setting Data

```
01/05:NO ASSIGN
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO ASSIGN	TANDM TRF	A A	
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK3 + (Transfer) + (0) (5) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.

Line Key	LCD Indication when Selected	Definition
LK 1	NO ASSIGN	Normal
LK 2	TANDM TRF	Automatic Trunk-to-Trunk Transfer
LK 3	A A	Automated Attendant/DISA

☞ Use the following to enter data:
(Conf) to go to the next CO/PBX Port No.

4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

Refer to Chapter 2 Guide to Feature Programming.

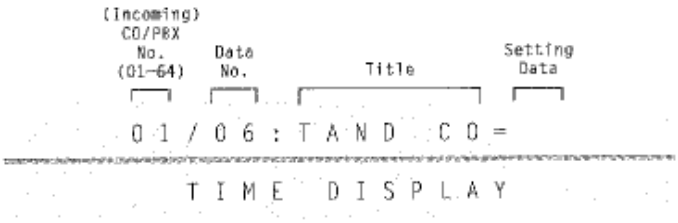
Automatic Tandem Trunk Assignment

CO/PBX Line Mode
3
Submode
—
Data No.
06
PC Programming
Alt +AT

General Description

Use this Memory Block to specify the incoming trunk and outgoing trunk for Automatic Trunk-to-Trunk Transfer.

Display



Programming Procedures

1	Go off-line.	
2	Press LK3 + Transfer + 0 6 to access the Memory Block.	
3	Enter data using the dial pad. ☞ Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter numeric data Conf to go to the next CO/PBX Line No.	**Default Values** Not Specified
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-04	Trunk-to-Trunk Transfer Yes/No Selection

CO/PBX Ringing Variation Selection

CO/PBX Line Mode
3
Submode
—
Data No.
07
PC Programming
Alt +BCT

General Description

Use this Memory Block to specify a ringing tone for each CO/PBX line.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data

```
01/07:DST RING=M
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
M (Medium)	L (Low)	H (High)	
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 0 + 7 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following when entering data: Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-1-28	Distinctive Ringing by Telephone or CO Selection

Notes

1. This Memory Block is not applicable if Telephone is selected in Memory Block 1-1-28 (Distinctive Ringing by Telephone or CO Selection).
2. High, medium, or low ringing tone applies to incoming outside line calls only.

CO External Source Selection

CO/PBX Line Mode
3
Submode
—
Data No.
11
PC Programming
All +BCT

General Description

Use this Memory Block to specify whether the Music On Hold source is from the CO or an external source (EXT SOURCE).

Display

```
CO/PBX   Data   Setting
 No.      No.    Data
(01~64)
 01 / 11 : C0
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
CO	EXT SOURCE		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 1 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-12	CO Hold Memory Selection

Notes

If CO is set for EXT SOURCE and left in a trunk group, that CO is skipped in dialing access of the trunk group.

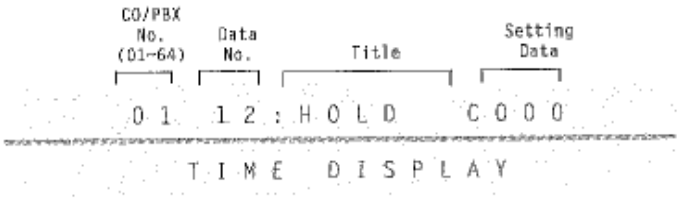
CO Hold Memory Selection

CO/PBX Line Mode
3
Submode
—
Data No.
12
PC Programming
Alt+BCT

General Description

Use this Memory Block to specify the music selection for each CO/PBX line.

Display



Programming Procedures

1	Go off-line.	
2	Press LK3 + Transfer + 1 2 access the Memory Block.	
3	Enter data using the dial pad. Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter numeric data Conf to go to the next CO/PBX Line No.	**Default Values** 00 = Not Assigned for CO/PBX No. 01~64
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-11	CO External Source Selection

Tie Line Type Assignment

CO/PBX Line Mode
3
Submode
—
Data No.
14
PC Programming
Alt +ALT

General Description

Use this Memory Block to assign the loop supervision to be used for each Trunk associated with a Tie line.

Display

Tie/DID No. (01-64) | Data No. | Title

```
01/14:2ND DIAL
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
2ND DIAL	IMMEDIATE	DELAY	WINK
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 1 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: Conf to go to the next Tie/DID Port No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-92	Trunk (Installed, DP/DTMF) Selection

Notes

1. Line keys 1~4 identify the following methods of loop supervision:
   1 = Second Dial Tone
   2 = Immediate Start
   3 = Delay Dial
   4 = Wink Start
2. This Memory Block affects T1 channels assigned as Tie lines.
3. If a second dial tone is selected, the distant system provides the dial tone.
4. If Immediate, Delay, or Wink is selected, the local system provides the dial tone.

Trunk DTMF Duration/Interdigit Selection

CO/PBX Line Mode
3
Submode
—
Data No.
15
PC Programming
Alt +BCT

General Description

Use this Memory Block to specify the tone duration/interdigit time of dual-tone multifrequency (DTMF) signals.

Display

CO/PBX No. (01~64)	Data No.	Title	Setting Data
01 /	15 :	MF	110/80

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
60/70	60/80	110/80	160/80
LK 5	LK 6	LK 7	LK 8
210/80	410/100	610/100	810/190

The shaded selection is the default. Times are in milliseconds.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 1 5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: Conf = Next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-92	Trunk (Installed, DP/DTMF) Selection

Notes

1. This is also used for Tie lines.
2. This Memory Block affects T1 Channels assigned as Tie/DID lines. A DTI-U10/20 ETU is required.

Tie Line Prepause Time Selection

CO/PBX Line Mode	Submode	Data No.	PC Programming
3	—	16	AR +ALM

General Description

Use this Memory Block to specify the time (prepause) when the originating side becomes able to send dial pulse or dual-tone multifrequency (DTMF) to the distant system.

Display

CO/PBX No. (01-64)	Data No.	Title	Setting Data	Page No.
01 /	16 :	PRE	0 |	1

TIME DISPLAY

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
0	0.5	1.0	1.5
LK 5	LK 6	LK 7	LK 8
2.0	3.0	4.0	5.0

(Page 2)

LK 1	LK 2	LK 3	LK 4
6.0	7.0	8.0	9.0
LK 5	LK 6	LK 7	LK 8
10.0	11.0	12.0	13.0

The shaded selection is the default. Times are in Seconds.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 1 6 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ The following to enter data: Recall to go to the next page Feature to go to the previous page Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Prepause time differs according to the acknowledgment signaling method.
2. This Memory Block affects T1 channels assigned as Tie/DID lines.

Tie Line Answer Detect Time Selection

CO/PBX Line Mode
3

Submode
—

Data No.
17

PC Programming
Alt +ALM

General Description

Use this Memory Block to specify the time between when the receiving Electra Elite 48/192 system answers (off-hook) and when it is recognized as an answer.

Display

CO/PBX (01~64) | Data No. | Title | Setting Data | Page

```
01/17:ANS   520|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
0	130	260	390
LK 5	LK 6	LK 7	LK 8
520	650	780	910

(Page 2)

LK 1	LK 2	LK 3	LK 4
1040	1170	1300	1430
LK 5	LK 6	LK 7	LK 8
1560	1690	1820	1950

The shaded selection is the default. Times are in milliseconds.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 1 2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ The following are used when entering data: Recall to go to the next page Feature to go to the previous page Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Answering a call may be impossible if the CO answer detect time is too long.
2. This Memory Block affects T1 channels assigned as Tie/DID lines.

Tie Line Release Detect Time Selection

CO/PBX Line Mode
3
Submode
—
Data No.
18
PC Programming
Alt +ALM

General Description

Use this Memory Block to specify the time between when the circuit disconnect is detected on the Tie line on the distant system side and when it is recognized as Tie line release.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data | Page

```
01/18:RLS    520|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
0	130	260	390
LK 5	LK 6	LK 7	LK 8
520	650	780	910

(Page 2)

LK 1	LK 2	LK 3	LK 4
1040	1170	1300	1430
LK 5	LK 6	LK 7	LK 8
1560	1690	1820	1950

The shaded selection is the default. Times are in milliseconds.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 1 8 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ The following are used when entering data: Recall to go to the next page Feature to go to the previous page Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Specify distinguishing circuit release from on-hook, noise, and temporary interruption. Probable situations for Tie line release detection include:
   - Called side hangs up first. The circuit is released 92 ms. + specified time after the other party disconnects the call.
   - Called side hangs up second. The circuit is released when the specified time has elapsed after the other party hangs up.
   - Originating side hangs up first. The circuit is released 92 ms. + specified time after the other party hangs up.
   - Originating side hangs up second. The circuit is released when the specified time has elapsed after the other party hangs up.
2. This Memory Block affects T1 channels assigned as Tie/DID lines. A DTI-U10/20 ETU is required.

Tie Line/CO/PBX Incoming Signal Detect Time Selection

CO/PBX Line Mode
3
Submode
—
Data No.
19
PC Programming
Alt +BCT

General Description

Use this Memory Block to specify the time between when the incoming signal from another system is detected and when the acknowledgment signal is sent out.

Display.

CO/PBX No. (01-64) | Data No. | Title | Setting Data | Page No.

```
01/19:INC   03 |1
TIME DISPLAY
```

Settings

In Wink Start Method (Page 1)

LK 1	LK 2	LK 3	LK 4
00 (0 ms.)	01 (130 ms.)	02 (260 ms.)	03 (390 ms.)
LK 5	LK 6	LK 7	LK 8
04 (520 ms.)	05 (650 ms.)	06 (780 ms.)	07 (910 ms.)

(Page 2)

LK 1	LK 2	LK 3	LK 4
08 (1040 ms.)	09 (1170 ms.)	10 (1300 ms.)	11 (1430 ms.)
LK 5	LK 6	LK 7	LK 8
12 (1560 ms.)	13 (1690 ms.)	14 (1820 ms.)	15 (1950 ms.)

In Delay Method (Page 1)

LK 1	LK 2	LK 3	LK 4
00 (0 ms.)	01 (30 ms.)	02 (60 ms.)	03 (90 ms.)
LK 5	LK 6	LK 7	LK 8
04 (120 ms.)	05 (150 ms.)	06 (180 ms.)	07 (210 ms.)

(Page 2)

LK 1	LK 2	LK 3	LK 4
08 (240 ms.)	09 (270 ms.)	10 (300 ms.)	11 (330 ms.)
LK 5	LK 6	LK 7	LK 8
12 (360 ms.)	13 (390 ms.)	14 (420 ms.)	15 (450 ms.)

In COI (Page 1)

LK 1	LK 2	LK 3	LK 4
00 (50 ms.)	01 (100 ms.)	02 (150 ms.)	03 (200 ms.)
LK 5	LK 6	LK 7	LK 8
04 (250 ms.)	05 (300 ms.)	06 (350 ms.)	07 (400 ms.)

(Page 2)

LK 1	LK 2	LK 3	LK 4
08 (450 ms.)	09 (500 ms.)	10 (550 ms.)	11 (600 ms.)
LK 5	LK 6	LK 7	LK 8
12 (650 ms.)	13 (700 ms.)	14 (750 ms.)	15 (800 ms.)

The shaded selection is the default for each method.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 1 9 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. Receiving Side Incoming Signal Detection — DC Loop Supervision Time Sending Acknowledgment Signal ☞ Use the following to enter data: Recall to go to the next page Feature to go to the previous page Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
3-14	Tie/DID Line Type Assignment

Notes

1. For second dial tone and immediate loop supervision, the time is fixed at 30 ms.
2. This Memory Block affects T1 channels assigned as Tie/DID lines.

Tie Line Loop Off-Guard Time Selection

CO/PBX Line Mode
3
Submode
—
Data No.
20
PC Programming
Alt +ALM

General Description

Use this Memory Block to assign loop off-guard time to prevent noise that may cause the system to be unable to answer an incoming Tie line.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data | Page No.

```
01/20:LOOP  2.0|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
0.0	0.5	1.0	1.5
LK 5	LK 6	LK 7	LK 8
2.0	3.0	4.0.	5.0

(Page 2)

LK 1	LK 2	LK 3	LK 4
6.0	7.0	8.0	9.0
LK 5	LK 6	LK 7	LK 8
10.0	11.0	12.0	13.0

The shaded selection is the default. Times are in Seconds.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 2 0 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ The following are used when entering data: Recall to go to the next page Feature to go to the previous page Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Assign a loop off-guard time to prevent system malfunction caused by noise when going off-hook to answer a call from another system on a Tie line call.
2. The system ignores any noise that is detected during the time specified in this Memory Block.
3. This Memory Block affects T1 channels assigned as Tie/DID lines.

Tie Line Length of Wink Signal Selection

CO/PBX Line Mode
3
Submode
—
Data No.
21
PC Programming
Alt +ALM

General Description

Use this Memory Block to specify the time of a wink pulse that is sent to another system.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data | Page

```
01/21:WINK180  |1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
30	60	90	120
LK 5	LK 6	LK 7	LK 8
150	180	210	240

(Page 2)

LK 1	LK 2	LK 3	LK 4
270	300	330	360
LK 5	LK 6	LK 7	LK 8
390	420	450	480

The shaded selection is the default. Times are in milliseconds.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 2 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. Receiving Side Incoming Signal Detection — DC Loop Supervision Time Wink Pulse Sending ☞ Use the following to enter data: Recall to go to the next page Feature to go to the previous page Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Specify Wink Start in Memory Block 3-14 (Tie Line Type Assignment).
2. This Memory Block affects T1 channels assigned as Tie/DID lines.

Tie Line Length of Delay Signal Selection

CO/PBX Line Mode
3
Submode
—
Data No.
22
PC Programming
Alt +ALM

General Description

Use this Memory Block to specify the time a delay pulse is sent to another system.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data | Page

01/22:DELY 300|1

TIME DISPLAY

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
0	300	600	900
LK 5	LK 6	LK 7	LK 8
1200	1500	1800	2100

(Page 2)

LK 1	LK 2	LK 3	LK 4
2400	2700	3000	3300
LK 5	LK 6	LK 7	LK 8
3600	3900	4200	4500

The shaded selection is the default. Times are in milliseconds.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 2 2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option.

Receiving Side

Receiving Signal Detection — DC Loop Supervision

Time

Delay Pulse Sending

☞ Use the following to enter data:

- Recall to go to the next page
- Feature to go to the previous page
- Conf to go to the next CO/PBX Line No.

4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Specify Delay loop supervision in Memory Block 3-14 (Tie Line Type Assignment).
2. This Memory Block affects T1 channels assigned as Tie/DID lines.

Tie Line Incoming Interdigit Timeout Selection

CO/PBX Line Mode
3
Submode
—
Data No.
24
PC Programming
Alt +ALM

General Description

Use this Memory Block to specify the time, in seconds, that an address signal is missing during the incoming call detection process before an error tone is returned to the other system.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data | Page

```
01/24:INCOM  6s|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
∞ (No Limit)	1s	2s	3s
LK 5	**LK 6**	**LK 7**	**LK 8**
4s	5s	6s	7s

The shaded selection is the default.

(Page 2)

LK 1	LK 2	LK 3	LK 4
8s	9s	10s	11s
LK 5	**LK 6**	**LK 7**	**LK 8**
12s	13s	14s	15s

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 2 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following enter data: Recall to go to the next page Feature to go to the previous page Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. A timeout occurs when:
   - A dial pulse is not received within the time specified by this Memory Block after the receiving side detects the off-hook signal.
   - The next dial pulse is not received within the time specified by this Memory Block after the receiving side detects (receives) a dial pulse.
2. This Memory Block affects T1 channels assigned to Tie/DID lines.

Tie Line Wink/Delay Signal Detect Timeout Selection

CO/PBX Line Mode
3
Submode
—
Data No.
25
PC Programming
Alt +ALM

General Description

Use this Memory Block to specify a maximum time, in seconds, for receiving an acknowledgment signal from a distant system before sending a busy tone.

Display

CO/PBX No. (01-64) | Data No. | Title | Setting Data | Page No.

```
01/25:DTECT  7s|1
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
∞ (No Limit	1s	2s	3s
LK 5	LK 6	LK 7	LK 8
4s	5s	6s	7s

The shaded selection is the

Tie Line Reorder Tone Selection

CO/PBX Line Mode
3
Submode
—
Data No.
28
PC Programming

General Description

Use this Memory Block to specify whether or not to send a reorder tone to the originating station when the number of a distant system is used to originate a call over a Tie line.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data

Notes

1. The Electra Elite system divides the connections into the following patterns:

   (Specify the sending and receiving levels of each pattern for each of the trunks.)

Pattern A (Intercom Mode)	Connections established between the intercom stations of the local system and trunks.
Sending level	(To be specified in this Memory Block.)
Receiving level	
Pattern B (Tandem Mode)	Connections established between two systems, with the local system as a tandem system.

Notes

1. The Electra Elite system divides the connections into the following patterns:

   (Specify the sending and receiving levels of each pattern for each of the trunks.)

   Pattern A (Intercom Mode) — Connections established between the intercom stations of the local system and trunks.

   - Sending level
   - Receiving level — (To be specified in this Memory Block.)

   Pattern B (Tandem Mode) — Connections established between two systems, with the local system as a tandem system.

   - Sending level
   - Receiving level

2. This Memory Block applies to Tie lines, T1, DID, and Basic Rate Interface (BRI) trunks.

Trunk External Transmit Pad Selection

CO/PBX Line Mode
3
Submode
—
Data No.
31
PC Programming

General Description

Use this Memory Block to specify transmit dB volume level for tandem calls between a local system and two distant systems.

Display

Trunk External Receive Pad Selection

CO/PBX Line Mode
3
Submode
—
Data No.
32
PC Programming
Alt + BCT

General Description

Use this Memory Block to specify receive dB volume level for tandem calls between a local system and two distant systems.

Display

CO/PBX No. (01-64) | Data No. | Title | Setting Data | Page

```
01/32:PAD ER 0|2
TIME DISPLAY
```

Settings

(Page 1)

LK 1	LK 2	LK 3	LK 4
2	4	6	8
LK 5	LK 6	LK 7	LK 8
12	16	3	-3

(Page 2)

LK 1	LK 2	LK 3	LK 4
0			
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default. Settings are in dB.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 3 + 2 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: Recall to go to the next page Feature to go to the previous page Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Automated Attendant Message to Trunk Selection

CO/PBX Line Mode
3
Submode
—

General Description

Use this Memory Block to assign the Automated Attendant Message per-CO/PBX Trunk. When the Automated Attendant Message is assigned to each CO/PBX Trunk, the system

Delay Announcement Assignment

CO/PBX Line Mode
3
Submode
—
Data No.
41
PC Programming

General Description

Use this Memory Block to specify, per CO Port, whether or not Delay Announcement is sent to the calling party for Day and/or Night Mode.

Display

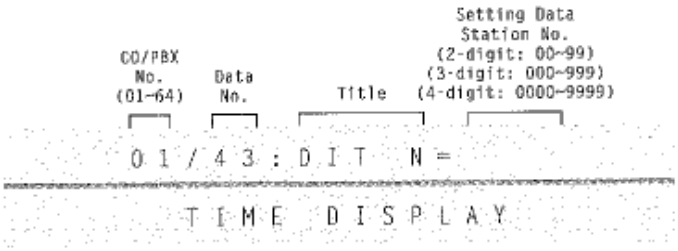
ANA Assignment

CO/PBX Line Mode
3
Submode
—
Data No.
43
PC Programming
Alt +BCT

General Description

Use this Memory Block to assign a Night Mode Direct trunk termination to a station.

Display



Programming Procedures

1	Go off-line.	
2	Press LK3 + Transfer + 4 3 to access the Memory Block.	
3	Enter data using the dial pad. ☞ Use the following to enter data: 0 ~ 9 to enter numeric data	**Default Values** No Assignment

Live Record Trunk Selection

CO/PBX Line Mode
3

Submode
—

Data No.
45

PC Programming
Alt +AV

General Description

Use this Memory Block to specify, per Trunk, whether or not to allow Live Record for Digital Voice Mail.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data

```
01/45:LIVEREC  NO
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 4 5 to access the Memory Block.

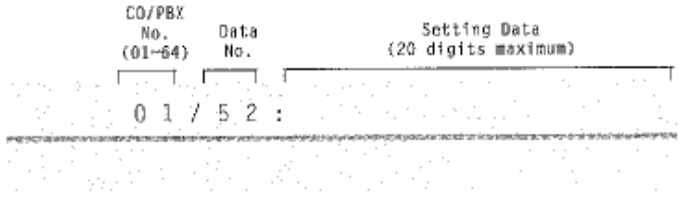
ISDN Trunk Directory Number Assignment

CO/PBX Line Mode
3
Submode
—
Data No.
52
PC Programming
Alt +AN

General Description

Use this Memory Block to assign the Integrated Services Digital Network (ISDN) Directory Number.

Display



Programming Procedures

1	Go off-line.
2	Press LK3 + Transfer + 5 2 to access the Memory Block.
3	☞ Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter numeric data Conf to go to the next CO/PBX Line No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Caller Name Indication Selection

CO/PBX Line Mode
3
Submode

General Description

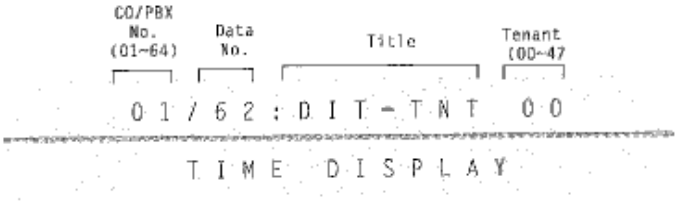
DIT Tenant Assignment

CO/PBX Line Mode
3
Submode
—
Data No.
62
PC Programming
Alt +BCT

General Description

Use this Memory Block to assign each Trunk to a Master Tenant for the DIT/ANA to follow the Day/Night/Weekend mode settings.

Display



Programming Procedures

1	Go off-line.	
2	Press LK3 + Transfer + 6 2 to access the Memory Block.	
3	Use the following to enter data: * to move the cursor left. # to move the cursor right. 0 ~ 9 to enter numeric data. **OR** Press Conf to go to the next CO/PBX Line No.	**Default Values** Tenant 00
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
3-42	DIT Assignment
3-43	ANA Assignment

DIT Weekend Mode Selection

Polarity Reverse Selection

CO/PBX Line Mode
3

Submode
—

Data No.
90

PC Programming
Alt +BCT

General Description

Use this Memory Block to enable a Central Office to Reverse the Polarity to provide an answer supervision signal. In North America and Canada, this type of answer supervision is not normally supported by the CO.

Display

CO/PBX No. (01~64) | Data No. | Title | Setting Data

```
01/90:RVRS NO
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Trunk (Installed, DP/DTMF) Selection

CO/PBX Line Mode
3

Submode
—

Data No.
92

PC Programming
Alt +BCT

General Description

Use this Memory Block to specify an external line as DP (10 pps or 20 pps) or DTMF line or not connected (NIL).

Display

```
CO/PBX No. (01~64)   Data No.   Setting Data
[ ]                  [ ]        [ ]
0 1 / 9 2 : M F
T I M E   D I S P L A Y
```

Settings

LK 1	LK 2	LK 3	LK 4
NIL	DP 10 pps	DP 20 pps	MF
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Page 5 (Trunks 33~40)

LK 1	LK 2	LK 3	LK 4
33	34	35	36
LK 5	LK 6	LK 7	LK 8
37	38	39	40

Page 6 (Trunks 41~48)

LK 1	LK 2	LK 3	LK 4
41	42	43	44
LK 5	LK 6	LK 7	LK 8
45	46	47	48

Page 7 (Trunks 49~56)

LK 1	LK 2	LK 3	LK 4
49	50	51	52
LK 5	LK 6	LK 7	LK 8
53	54	55	56

Page 8 (Trunks 57~64)

LK 1	LK 2	LK 3	LK 4

Page 5 (Trunks 33~40)

LK 1	LK 2	LK 3	LK 4
33	34	35	36

Doorphone Chime Assignment (Day Mode)

Telephone Mode
4

Submode
—

Data No.
03

PC Programming
Alt +BTP

General Description

Use this Memory Block to assign up to four doorphones to chime at each station in the day mode.

Display

Tel Port No. (01~99) A0~C0 | Data No. | Title

```
01/03:DPH DAY
TIME DISPLAY
```

Settings

Page 1 (Ports 01~08)

LK 1	LK 2	LK 3	LK 4
DPH1	DPH2	DPH3	DPH4
LK 5	LK 6	LK 7	LK 8

Default not assigned.

Programming Procedures

1	Go off-line.	
2	Press LK4 + 0 3 to access the Memory Block.	
3	Use LK1~LK4 to assign chimes for doorphone 1~4.	**Default Values** Ports 01 and 02 chime for all doorphones.
4	After entering all data, press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

M.B. Number	Memory Block Name
1-7-00	Doorphone Assignment
1-7-01	Doorphone Display Time Selection
[illegible]	[illegible]

Code Restriction Class Assignment (Day Mode)

Telephone Mode
4
Submode
—
Data No.
07
PC Programming
Alt +AC

General Description

Use this Memory Block to specify, per station, Code Restriction Class in Day Mode.

Display

Tel Port No. (01~99) A0~C0 | Data No. | Title | Setting Data (00~15)

```
01/07:CLS DAY=00
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK4 + 0 7 to access the Memory Block.	
3	Use dial pad to enter data for Restriction Classes 00 ~15. ☞ Use the following to enter data: * to move the cursor left # to move the cursor right 0 ~ 9 to enter numeric data Conf to move to the next Tel Port No.	**Default Values** All Stations Class 00
4	After entering all data, press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

Refer to Section 6 Code Restriction in this chapter.

Notes

Telephone ports A0~C0 are ports 100~120.

Ringing Line Preference Selection

Telephone Mode
4

Submode
—

Data No.
11

PC Programming
Alt +BTM

General Description

Use this Memory Block to specify whether or not each station user can answer incoming ringing CO/PBX calls by going off-hook.

Display

Tel Port No. (01~99) A0~C0	Data No.	Title	Setting Data
0 1 /	1 1 :	R N G P R F	Y S

T I M E D I S P L A Y

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK4 + 1 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change the data option. ☞ Use the following to enter data: Conf to move to the next Tel Port No.
4	After entering all data, press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

Programming Procedures

6	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
2-05	Line Key Selection (Tenant Mode)

Function Table

Line Key	Functions [For each telephone in tenant specified as Telephone Mode in Memory Block 2-05 (Line Key Selection)]	Setting Data 1 LCD Indication	Setting Data 2
1	Not Specified	NON	N/A
2	CO/PBX line	CO	01~64
3	Call Forward - Busy/No Answer	FW BNA	N/A
4	Call Forward - All Call	FW ALL	N/A
5	Call Appearance Block.	C00~C47	Call Appearance Key

Intercom Master Hunt Number Selection

Telephone Mode
4

Submode
—

Data No.
14

PC Programming
Alt +BTT

General Description

Use this Memory Block to assign a master intercom number to each telephone.

Display

Tel Port No. (01~99) A0~C0	Data No.	Title	Setting Data
01 /	14 :	MSTER	NO

Notes

1. Telephone ports A0~C0 are ports 100~120.
2. Example - Assign the following Memory Blocks:
   - Memory Block 4-14 (Intercomn Master Hunt Number Selection)
     Telephone Port Number 01 ==> YES
     All other Port Numbers ==> NO
   - Memory Block 4-10 (Station Number Assignment
     Telephone Port Number and related Station Number

Port No.		Station No.
01	==>	100
02	==>	101
03	==>	102

Station Name Assignment

Telephone Mode
4
Submode
—
Data No.
18
PC Programming
Alt +BTT

General Description

Use this Memory Block to assign names for telephone stations.

Display

```
Tel
Port
No.
(01~99)  Data      Setting
AO~CO    No.        Data
[    ]   [    ]   [                ]
 0 1 / 1 8 : <                    >
T I M E   D I S P L A Y
```

Programming Procedures

Page 5 (Ports 33~40)

LK 1	LK 2	LK 3	LK 4
33	34	35	36
LK 5	LK 6	LK 7	LK 8
37	38	39	40

Page 6 (Ports41~48)

LK 1	LK 2	LK 3	LK 4
41	42	43	44
LK 5	LK 6	LK 7	LK 8
45	46	47	48

Page 7 (Ports 49~56)

LK 1	LK 2	LK 3	LK 4
49	50	51	52
LK 5	LK 6	LK 7	LK 8
53	54	55	56

Page 8 (Ports 57~64)

LK 1	LK 2	LK 3	LK 4
57	58	59	60
LK 5	LK 6	LK 7	LK 8
61	62	63	64

Programming Procedures

1	Go off-line.	
2	Press LK4 + 7 9 to access the Memory Block.	
3	Press the CO/PBX line key corresponding to each CO/PBX line.	**Default Values**
	The LED indication changes to indicate data each time a CO/PBX line key is pressed.	Off, Not Restricted

Notes

1. Prime Line function enables a user to seize a specified trunk when the Multiline Terminal goes off-hook. Refer to function codes 063 and 064 for Memory Blocks 1-1-46 [Access Code (1-Digit) assignment] and 1-1-47 [Access Code (2-Digit) assignment].
2. To call the specified station number or CO line on Hot Line, go off-hook.
3. When using Prime Line an access code (Feature and Speaker) or ICM key can be used to seize the intercom (ICM) Dialtone for internal call processing.
4. To Hot Line Assignment, one of the following must be entered:

Notes

1. This Memory Block affects only Single Line Telephone stations assigned Prime Line in Memory Block 4-23 (Prime Line/Hot Line Assignment).
2. When Prime Line is assigned to an Single Line Telephone, hookflash drops the CO and issues intercom (ICM) dial tone if this Memory Block is set to disconnect.
3. After an SLT begins to dial out 9 +, hookflash follows Memory Block 1-3-02 (SLT Hookflash Signal Selection) selection.
4. Telephone ports A0~C0 are ports 100~120.

DISA ID Number Station Assignment

Telephone Mode
4
Submode
—
Data No.
26
PC Programming
Alt +BD

General Description

Use this Memory Block to assign the Direct Inward System Access (DISA) ID Buffer Number corresponding to the station port number. The Station Message Detail Recording (SMDR) printout of the station number corresponds to the calling party that dialed the DISA ID number.

Display

Station Port No. (01~99) A0-C0 | Data No. | Title | Setting Data

```
01/26:ID NO.  -01
TIME DISPLAY
```

Programming Procedures

1. Go off line

HFU Selection

Telephone Mode
4

Submode
—

Data No.
29

PC Programming
Alt +BTM

General Description

Use this Memory Block to enable/disable (per station) the built-in Handsfree HFU-U(BK)/(WH) Unit.

Display

Tel Port No. (01~99) A0~C0 | Data No. | Table | Setting Data

01 / 29 : HFU NO

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK4 + 2 9 to access the Memory Block.
3	[illegible]

Receiving Internal/All Call Page Selection

Telephone Mode
4

Submode
—

Data No.
31

PC Programming
Alt +BTT

General Description

Use this Memory Block to enable/disable (per station) receiving an Internal Zone or Internal All Zone Page.

Display

Tel Port No. (01~99) A0~C0 | Data No. | Title | Setting Data

```
01/31:PAGING      YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
YS	NO		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK4 + 3 1 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change data option.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Internal Emergency All Call Page and Internal Paging by Tenant group override this Memory Block. Refer to

Voice Mail/SLT Selection

Telephone Mode
4

Submode
—

Data No.
35

PC Programming
Alt +BTI

General Description

Use this Memory Block to specify whether or not a Voice Mail system is interfaced with the system for Single Line Telephone ports.

Display

Tel Port No. (01~99) A0-C0 | Data No. | Title | Setting Data

```
01/35:V MAIL    NO
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK4 + 3 5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change data option. ☞ Use the following to change option: Conf to go to next Tel Port No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

M.B. Number	Memory Block Name
7-2	Telephone Type Assignment (used for digital voice mail ports)

Notes

1. The SLT(1)-U10 ADP Adapter and the ADA(2)-W(BK)/(SW) Unit do not support Voice Mail.
2. Only 16 Voice Mail ports are supported by this system.
3. Telephone ports A0~C0 are ports 100~120.

Programming Procedures

1	Go off-line.
2	Press LK4 + 3 7 to access the Memory Block.
3	Use the dial pad to select option. The LED indication changes to indicate data each time a CO/PBX line key is pressed.

Default Values

All Telephones: No Ring

CO/PBX Line Key LED	Off	Green	Red
Data	No ring	Immediate Ring	Delayed Ring

The shaded selection is the default.

Use the following to enter data:

Programming Procedures

1	Go off-line.
2	Press LK4 + (3) (8) to access the Memory Block.
3	Use the dial pad to enter data. The LED indication changes to indicate data each time a CO/PBX line key is pressed.

Default Values

All Telephones: No Ring

CO/PBX Line Key LED	Off	Green	Red
Data	No ring	Immediate Ring	Delayed Ring

The shaded selection is the default.

☞ Use the following to enter data:

- (Recall) go to next page
- (Feature) go to previous page
- (Conf) select next Tel Port No.

4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

M.B. Number	Memory Block Name
1-2-26	Delayed Ring Time Assignment (ICM)

Notes

1. When Ring is set, the LED is green.
2. This Memory Block applies only when an SIE or Call Arrival key is programmed for line key appearance.
3. Telephone ports A0~C0 are ports 100~120.

LCR Class Selection

Telephone Mode
4

Submode
—

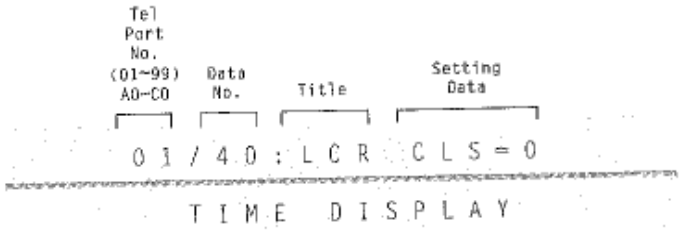
Data No.
40

PC Programming
[All]+BTT

General Description

Use this Memory Block to specify, per station, the Least Cost Routing (LCR) Class. The Electra Elite 48/192 system has four Area Code Tables. Each LCR Class can have different Trunk group access to allow priority levels for the station user.

Display



Settings

LK 1	LK 2	LK 3	LK 4
0	1	2	3
LK 5	LK 6	LK 7	LK 8
4			

The shaded selection is the default. Numbers are LCR Classes.

Programming Procedures

1	Go off-line.
2	Press LK4 + (4) (0) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change data option. ☞ Use the following to change option: (Conf) to select next Tel Port No.
4	Press (Transfer) to write the data.
5	Press (Speaker) to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. LCR Class Selection corresponds to Area Code Tables as follows:

Call Forward-Busy Immediately/Delay Selection

Telephone Mode	Submode	Data No.	PC Programming
4	—	42	Alt +BTT

General Description

Use this Memory Block to specify immediate forward (NO) or delay forward (YS) for an Incoming CO/PBX call if the station is set for Call Forward Busy.

Display

Tel Port No. (01~99) AD-CO | Data No. | Title | Setting Data

```
01/42:BUSYFWD  YS
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK4 + (4) (2) to access the Memory Block.
3	Press the corresponding CO/PBX line key to change data option. ☞ Use the following to change option: (Conf) to select next Tel Port No.
4	Press (Transfer) to write the data...

Caller ID Preset Dial Outgoing CO Selection

Telephone Mode
4

Submode
—

Data No.
44

PC Programming
Alt + A

General Description

Use this Memory Block to assign the Trunk group, Route Advanced group, or Closed Numbering group that is seized for Caller ID Outgoing Calls. Use the Caller ID Scroll key to access the Caller ID to be called.

Display

```
Tel
Port
No.
(01~99)   Data      Setting
A0~C0     No.        Data
 [ ]      [ ]      [                    ]

 0 1 / 4 4 :
TIME DISPLAY
```

Programming Procedures

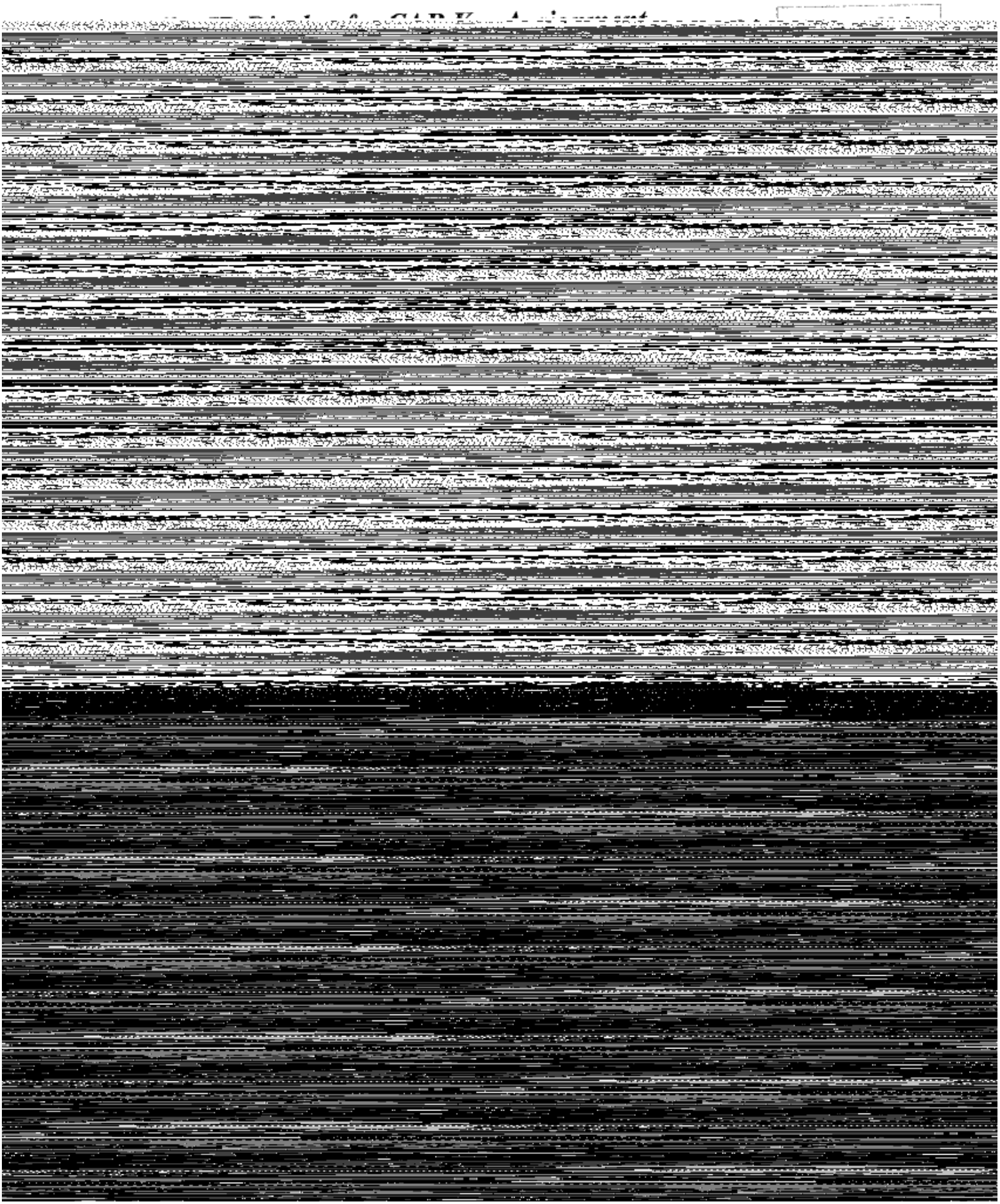
1	Go off-line.	
2	Press LK4 + (4) (4) to access the Memory Block.	
3	Use the dial pad to enter Setting Data. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data Conf to select next Tel Port No.	**Default Value** Not specified
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. Setting Data is Access Code Assignment in Memory Blocks 1-1-46, 47, 48 [Access Code (1-Digit, 2-Digit, or 3-Digit) Assignment]. For example: Dial 9 (101) → Trunk Group 1.
2. Assign the Caller ID Scroll key using Memory Blocks 2-06 (Line Key Selection for Tenant Mode) or 4-12 (Line



Multiline Terminal Type Selection

Telephone Mode
4
Submode
—
Data No.
50
PC Programming
Alt +BTM

General Description

This Memory Block is used to assign a DTU/DTP-32-1(BK)/(WH) TEL, DTU-32D-2(BK)/(WH) TEL, or DTP-32D-1(BK)/(WH) TEL with 16 line keys or 24 line keys.

Display

Tel Port No. (01~99) A0~C0 | Data No. | Title | Setting data

```
01/50:MLT TP 16
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
16	24		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.	
2	Press LK4 + 5 0 to access the Memory Block.	
3	Press applicable line key to assign 16 or 24 line keys.	**Default Values** All stations have 16 line keys.
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

Telephone ports A0~C0 are ports 100~120.

Line Key Orientation

16 Line Key Type

24 Line Key Type

LK17

LK21

CO/PBX Answer Key Operation Without Ringing Assignment (Day Mode)

Telephone Mode
4

Submode
—

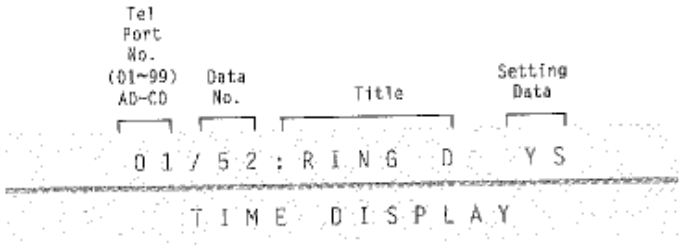
Data No.
52

PC Programming
Alt +BTT

General Description

Use this Memory Block to specify whether or not day assignment Answer key operation uses ringing. If NO is selected, press the Answer key while an incoming CO line key is flashing to answer the line key call. If YS is selected, the telephone must be ringing for the Answer key to answer an incoming CO/PBX call.

Display



Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK4 + 9 2 to access the Memory Block.
3	Press CO/PBX line key to change data option.

Enhanced 911 CESID to Station Table Assignment

Telephone Mode
4

Submode
—

Data No.
54

PC Programming
Alt +AE

General Description

Use this Memory Block to specify E911 Caller Emergency Service Identification (CESID).

Display

```
Tel
Port
No.
(01~99)   Data
A0~C0     No.
 [ ]      [ ]
 0 1 / 5 4
```

Programming Procedures

Telephone Ringing Variation Selection

Telephone Mode
4

Submode
—

Data No.
91

General Description

Use this Memory Block to assign a Low, Medium, or High ringing tone frequency if Telephone is specified in Memory Block 1-1-28 (Distinctive Ringing by Telephone or CO Selection).

Display

Tel
Port

Notes

1. Receiving Volume Down:
   Multiline Terminal: The volume (increased by pressing Feature and 2) is reset when you hang up.
   Single Line Telephone: Normal.
2. Receiving Volume Up:
   Multiline Terminal: The volume (increased by pressing Feature and 2) is not reset when you hang up.
   Single Line Telephone: The volume is increased 6 dB.
3. This feature applies to internal and external calls.
4. Telephone ports A0~C0 are ports 100~120.

3-Minute Alarm Selection

Telephone Mode
4
Submode
—
Data No.
94
PC Programming
Alt +BTM

General Description

Use this Memory Block to specify, per station, whether or not a warning tone is generated at 3-minute intervals during an outgoing or incoming CO/PBX call.

Display

Tel Port No. (01~99) A0-C0 | Data No. | Title | Setting Data

01 / 94 : 3mALM NO

TIME DISPLAY

Settings

LK 1	LK 2	LK 3	LK 4
NO	YS		
LK 5	LK 6	LK 7	LK 8

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK4 + 9 4 to access the Memory Block.
3	Press the corresponding CO/PBX line key to change data option. ☞ Use the following to change option: Conf select next Tel Port No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

No related programming is necessary for this Memory Block.

Notes

1. A 1-second (approximately) warning signal sounds every three minutes during CO/PBX calls.
2. The alarm tone is heard through the terminal speaker only.

Digit Add/Del for Tie Line Networking Assignment

Trunk Group Mode
5
Submode
—
Data No.
00
PC Programming
Alt +ALN

General Description

Use this Memory Block to specify the number of digits to add to and/or delete from the telephone number sent from a distant system over Tie lines or from DID lines. The digits enable the system to determine whether a call is directed to itself (local) or to another system (distant). Refer to the Notes.

Display

Trunk Group No.(01-32) | Data No. | Title | Setting Data

```
01/00:ADD/DEL000
TIME DISPLAY
```

Programming Procedures

1	Go off-line.
2	Press LK5 to access the Memory Block.
3	Press the corresponding CO/PBX line key to enter the data. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data Conf to go to the next Trunk Group No. Setting Data: 000: No Addition or Deletion 001~009: [1]~[9] Add 010: [0] Digit Add 100~199: [00]~[99] Add 201: 1-Digit Delete 202: 2-Digit Delete 301~309: 1-Digit Delete and 1~9 Add 310: 1-Digit Delete and 0 Add 400~499: 1-Digit Delete and 00~99 Add 501~509: 2-Digit Delete and 1 ~ 9 Add 510: 2-Digit Delete and 0 Add 600~699: 2-Digit Delete and 00 ~99 Add
4	Allowable inputs/data for all areas, press Save to write the data.

Programming Procedures

1	Go off-line.
2	Press LK5 + Transfer .
3	Press the corresponding CO/PBX line key to change the data option. Operation data includes:

CO/PBX		

OCC Table to Trunk Group Assignment

Trunk Group Mode
5
Submode
—

General Description

Use this Memory Block to assign each of the 16 OCC Tables to each Trunk group.

Display

3. Enter the beginning of the tenant (00~47) range to be copied to. Using the dial pad, press 4 5.

```
--→ TNAT 05-
TIME DISPLAY
```

4. Enter the end of the tenant (00~47) range to be copied to. Using the dial pad, press 0 7.

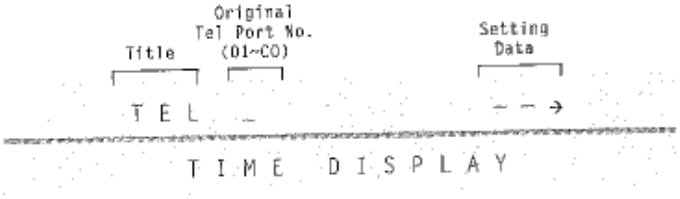
Telephone Mode Copy Assignment

Copy Mode
6
Telephone
4
Data No.
—

General Description

Use this Memory Block to enable copying data from one telephone port to another telephone port or multiple consecutive telephone ports.

Display



Programming Procedures

1	Go off-line.
2	Press LK6 + LK4 to access the Memory Block.
3	Enter the Tel. Port No. to be copied. ☞ Use the following to enter data: (0) ~ (9) to enter numeric data (Hold) to clear all data when placed at cursor position

Related Programming

No related programming is necessary for this Memory Block.

EXAMPLE: To copy data of telephone port 10 to telephone ports 20~30:

1. Enter the original Tel. No. Using the dial pad, press (0) (1).

2. Press (Transfer).

3. Enter the Start Trunk Group No. (01~32). Using the dial pad, press 1 0.

```
--→TRK GP 10-
TIME DISPLAY
```

4. Enter the End Trunk Group (01~32). Using the dial pad, press 1 4.

```
--→TRK GP 10-14
TIME DISPLAY
```

5. Press Transfer.

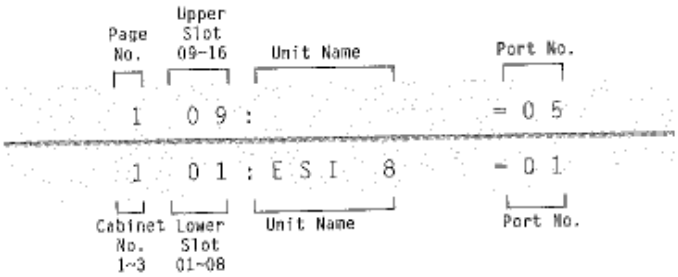
Card Interface Slot Assignment

ETU Mode
7
Slot
1
Data No.
—
PC Programming
Alt +BS

General Description

Use this Memory Block to specify the type of installed ETUs.

Display



Programming Procedures

1	Go off-line.
2	Press LK7 + LK1 to access the Memory Block.

Related Programming

M.B. Number	Memory Block Name
1-1-46	Access Code (1-Digit) Assignment
3-03	Trunk-to-Trunk Group Assignment
7-3-00	MIF(ACD) Assignment
7-3-01	MIF(LCR) Assignment
7-3-02	MIF(SMDR) Assignment
7-3-03	MIF(UCD) Assignment
7-3-04	MIF(Caller ID) Assignment

Notes

1. ETU interface cards are assigned automatically during initial power up.
2. ESI(8)-U10 ETU with ports 01 and 02 cannot be changed.
3. If ETU system capacity is exceeded, ERROR is displayed on the LCD, and the Transfer key cannot be used to write data.
4. DTI-U10/20 ETU must be assigned in both the upper and lower slot. The DTI-U10/20 ETU is installed in slot S1 or S4 of the first and slot S1 of the second B64-U10 KSU (Electra Elite 192), or slot S4 of the B48-U10 KSU (Electra Elite 48).
5. When changing an interface slot assignment to a different ETU, use the following procedure:
   a. Remove the ETU installed in the slot.
   b. Program the slot for new ETU in this Memory Block.
   c. Install the new ETU.
6. IPT(4)/COID(4)-U10 or IPT(8)/COID(8)-U10 ETU must be assigned in slots S1~S4 in the basic or first expansion B64-U10 KSU (192) or slots S3 or S4 of the B48-U10 KSU (48).
7. VMS(2)-U10 ETU must be assigned as a VMS(4)-U10 ETU.
8. MIFM-U10 or MIFA-U10 ETU must be installed in slot S2 (Electra Elite 48).

Telephone Type Assignment

ETU Mode
7

Telephone
2

Data No.
—

PC Programming
Alt +BS

General Description

Use this Memory Block to specify the device that is connected to an ESI port.

Display

ESI Port No. (01~96) — Setting Data

```
01:TEL
TIME DISPLAY
```

Settings

LK 1	LK 2	LK 3	LK 4
NON	TEL	CONSOL	SLT ADP
LK 5	LK 6	LK 7	LK 8
		DIGITAL VM	MSG BOARD

The shaded selection is the default.

Programming Procedures

1	Go off-line.
2	Press LK7 + LK2 to access the Memory Block.
3	To change data, press the corresponding CO/PBX line key. ☞ Use the following to enter data: Conf : Next Tel Port No.
4	Press Transfer to write the data.
5	Press Speaker to go back on-line.

Related Programming

Refer to Chapter 2 Guide to Feature Programming.

Notes

1. Only Multiline Terminals can be assigned to ports 01 and 02.
2. A maximum of four Attendant Add-On Consoles can be installed in the system.
3. A maximum of eight SLT(1)-U10 ADP adapters can be installed in the system.
4. A maximum of eight Digital Voice Mail ports are available.
5. When assigning SLT adapters or Digital Voice Mail ports, Memory Block 4-10 (Station Number Assignment) must

MIF (LCR) Assignment

ETU Mode
7

MIF
3

Data No.
01

PC Programming
Alt +BS

General Description

Use this Memory Block to enable the Least Cost Routing (LCR) function of the MIFM-U10 ETU.

Display

Data No. | Title | Setting Data

```
01:LCR        MIF=00
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK7 + LK3 + (*) (1) to access the Memory Block.	
3	Use the dial pad to enter data. ☞ Use the following to enter data: (*) to move the cursor left (#) to move the cursor right (0) ~ (9) to enter numeric data Setting Data: 00, 01, 02	**Default Value** No Assignment (00)
4	Press (Transfer) to write the data.	
5	Press (Speaker) to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

The LCR feature requires a KMM(1.0)U to be installed on the MIFM-U10 ETU.

MIF (SMDR) Assignment

ETU Mode
7
MIF

General Description

Use this Memory Block to enable the Station Messages Detail Recording (SMDR) function

MIF (Caller ID) Assignment

ETU Mode
7
MIF
3
Data No.
04
PC Programming
Alt +BS

General Description

Use this Memory Block to enable the Caller ID scrolling or outdial function on the MIFM-U10 ETU. Basic Caller ID works without an MIFM-U10 ETU installed.

Display

Data No. | Title | Setting Data

```
04:CLASS    MIF=00
TIME DISPLAY
```

Programming Procedures

1	Go off-line.	
2	Press LK7 + LK3 + (*) (4) to access the Memory Block.	
3	Use the dial pad to enter data. ☞ Use the following to enter data: (#) to move the cursor left (*) to move the cursor right (0) ~ (9) to enter numeric data Setting Data: 00, 01, 02	**Default Value** No Function (00)
4	Press Transfer to write the data.	
5	Press Speaker to go back on-line.	

Related Programming

No related programming is necessary for this Memory Block.

Notes

Caller ID scrolling and outdial must have the KMM(1.0)U installed on the MIFM-U10 ETU.

Station Speed Dial Memory Clear

Special Mode

8

Spd-Clr-Sta

General Description

Use this Memory Block to clear the the Station Speed Dial memories of all programmed

Clock/Calendar Setting

System Mode

—

Submode

—

Data No.

—

PC Programming

General Description

This Memory Block is used to set the time and date that are displayed on the Multiline Terminals. Clock/Calendar must be set on port 01 or port 02 terminal.

Display

```
11:08AM
TIME DISPLAY
```

Programming Procedures

Table 1-4 Function Times Chart (Continued)

Time	Memory Block	Definition	Value		
			Minimum	Default	Maximum
System Call Park Recall Time Selection	1-2-23	Time (minutes) before a parked call recalls to the station that parked the call.	0.5	1.0	10.0
Delayed Ringing Timer Assignment (ICM)	1-2-26	The delayed ringing time on incoming internal calls.	00.	10s	99
Bounce Protect Time Selection	1-3-01	The time for detecting a valid off-hook that is long enough to prevent unitentional bounce as an off-hook indication from a Single Line Telephone or Voice Mail System.	0ms	300ms	1500ms
First Digit PBR Release Time Selection	1-3-03	The time that a receiver is connected when a DTMF Single Line Telephone user is dialing.	10s	10s	60s
Hookflash Start Time	1-3-05	The minimum hookflash time	40	290	790

Table 1-4 Function Times Chart (Continued)

Time	Memory Block	Definition	Value		
			Minimum	Default	Maximum
Disconnect Recognition Time	3-33	The minimum time (seconds) before a disconnected circuitcan	0	0.3	1.5

6.3 Memory Blocks

The following related Memory Blocks are used when assigning Code Restriction.

Title	Memory Block
Trunk to Tenant Assignment	2-01
Trunk-to-Trunk Group Assignment	3-03
Trunk Type Selection	3-91
PBX/CTX Access Code Assignment I	1-1-24
PBX/CTX Access Code Assignment II	1-1-25
OCC Table Assignment	1-1-67
OCC Table to Trunk Group Assignment	5-03
8-Digit Matching Table to OCC Table Assignment	1-1-68
8-Digit Matching Table to Normal Dial Assignment	1-1-66

Tables (Allow, Deny, or Not Used) can be assigned to Code Restriction Classes 01~14. Classes 00 and 15 are fixed and are nonprogrammable.

Code Restriction Class Allow/Deny Selection (Memory Block 1-1-65)

This Memory Block assigns the Code Restriction Classes (01~14) as Allow or Deny. This assignment is used when there is no match or when there is an overlap (duplicate numbers in tables with opposite Allow/Deny assignments) of number in the 8-Digit Matching Tables.

8-Digit Matching Table Operations

The 8-Digit Matching Tables are used to restrict specific or all OCC calls and non-OCC calls. To understand the relationship of the 8-Digit Matching Tables with OCC calls, refer to Section 6.4.2 - OCC Assignment/Operation.

When a restricted station user makes a non-OCC call, the system monitors the first eight digits dialed and searches the 8-Digit Matching Tales assigned for Used in Memory Block 1-1-66 (8-Digit Matching Table to Normal Dial Assignment). The system searches only the 8-Digit

6.5 Code Restriction Tables (Default Values)

6.5.2 8-Digit Matching Tables with Default Values

The following Memory Blocks are displayed:

8-Digit Matching Table to Normal Dial Assignment (1-1-66)

8-Digit Matching Table to Trunk Group Assignment (5-02)

8-Digit Matching Table Assignment (1-1-60)

The following designations are used in these tables:

	Table 00								Table 01								Table 02								Table 03							
Memory Block (1-1-66)	Use Table								Use Table								Use Table								Use Table							
Memory Block (5-02)	Trunk Group 01~32								Trunk Group 01~32								Trunk Group 01~32								Trunk Group 01~32							
Memory Block (1-1-60)	00	9	1	1					00								00								00							
	01								01								01								01							
	02								02								02								02							
	03								03								03								03							
	04								04								04								04							
	05								05								05								05							
	06								06								06								06							
	07								07								07								07							
	08								08								08								08							
	09								09								09								09							
	10								10								10								10							
	11								11								11								11							
	12								12								12								12							
	13								13								13								13							
	14								14								14								14							
	15								15								15								15							

Note: X = -~9, *, #
P = 0,1
N = 2~9

Continued on next page.

8-Digit Matching Table to Normal Dial Assignment (1-1-66)

8-Digit Matching Table to Trunk Group Assignment (5-02)

8-Digit Matching Table Assignment (1-1-60)

	Table 12								Table 13								Table 14								Table 15							
Memory Block (1-1-66)	Use Table								Use Table								Use Table								Unused Table							
Memory Block (5-02)	Trunk Group 01~32								Trunk Group 01~32								Trunk Group 01~32								Trunk Group 01~32							
Memory Block (1-1-60)	00	9	7	6					00	1	8	0	0				00	1	X						00	X						
	01								01	1	8	8	8				01								01							
	02								02	1	8	7	7				02								02							
	03								03								03								03							
	04								04								04								04							
	05								05								05								05							
	06								06								06								06							
	07								07								07								07							
	08								08								08								08							
	09								09								09								09							
	10								10								10								10							
	11								11								11								11							
	12								12								12								12							
	13								13								13								13							
	14								14								14								14							
	15								15								15								15							

Note: X = 0~9, *, #
P = 0,1
N = 2~9

8-Digit Matching Tables with Default Values

The following designations are used in this table:

8-Digit Matching Table to Class Assignment (1-1-61)

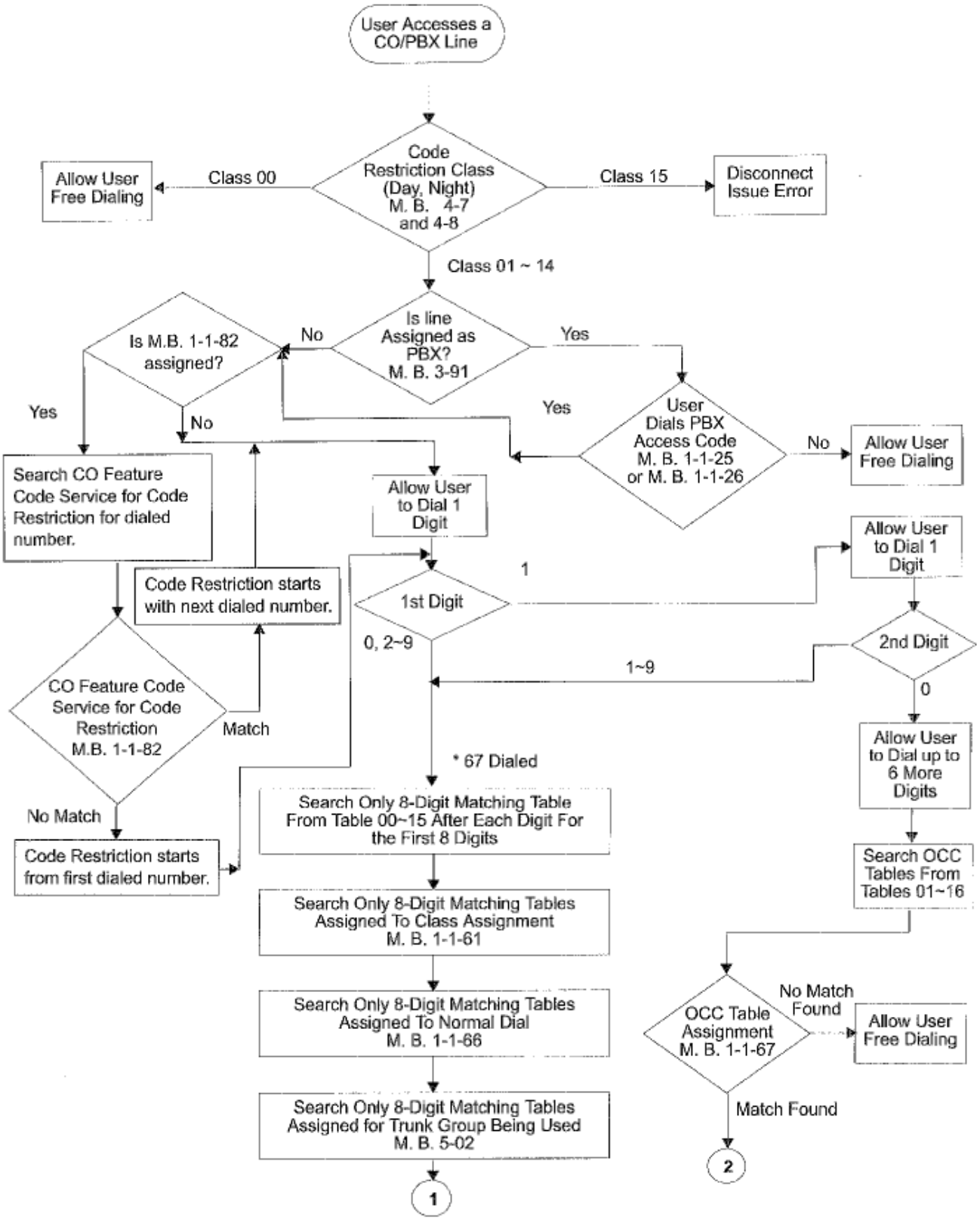
Class Allow/Deny Selection (1-1-65)

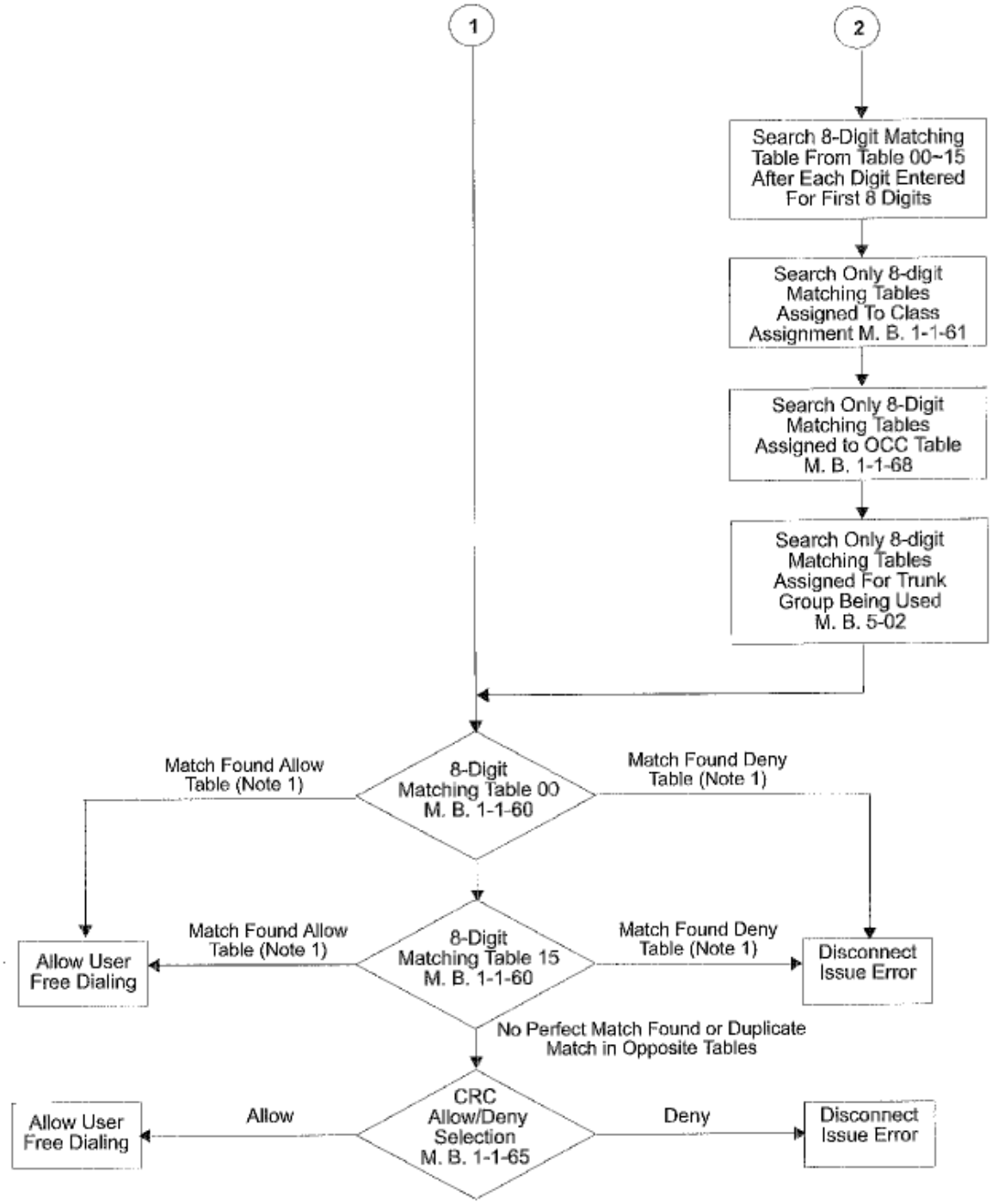
		8-Digit Matching Table																Class Allow/Deny Assignment
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
8-Digit Matching Table to Class Assignment	Class 01	A											D			D	D	Allow
	Class 02	A											D		A	D	D	Allow
	Class 03	A											D	D	A	D	D	Allow
	Class 04	A													A	D	D	Allow
	Class 05	A																Deny
	Class 06	A																Deny
	Class 07	A																Deny
	Class 08	A																Deny
	Class 09	A																Deny
	Class 10	A																Deny
	Class 11	A																Deny
	Class 12	A																Deny
	Class 13	A																Deny
	Class 14	A																Deny

Note: A = Allow
D = Deny
Blank = Not used

6.6 Code Restriction Algorithm

The following chart identifies how the system checks for and processes Code Restriction assignments.


User Accesses a CO/PBX Line
Code Restriction Class (Day, Night) M. B. 4-7 and 4-8
Class 00
Allow User Free Dialing
Class 15
Disconnect Issue Error
Class 01 ~ 14
Is line Assigned as PBX? M. B. 3-91
No
Yes
Is M.B. 1-1-82 assigned?
Yes
No
User Dials PBX Access Code M. B. 1-1-25 or M. B. 1-1-26
Yes
No
Allow User Free Dialing
Search CO Feature Code Service for Code Restriction for dialed number.
Allow User to Dial 1 Digit
Allow User to Dial 1 Digit
1st Digit
1
0, 2~9
2nd Digit
1~9
0
Code Restriction starts with next dialed number.
CO Feature Code Service for Code Restriction M.B. 1-1-82
Match
No Match
Code Restriction starts from first dialed number.
* 67 Dialed
Search Only 8-Digit Matching Table From Table 00~15 After Each Digit For the First 8 Digits
Search Only 8-Digit Matching Tables Assigned To Class Assignment M. B. 1-1-61
Search Only 8-Digit Matching Tables Assigned To Normal Dial M. B. 1-1-66
Search Only 8-Digit Matching Tables Assigned for Trunk Group Being Used M. B. 5-02
1
Allow User to Dial up to 6 More Digits
Search OCC Tables From Tables 01~16
OCC Table Assignment M. B. 1-1-67
No Match Found
Allow User Free Dialing
Match Found
2



Note 1: Tables are assigned as Allow or Deny in the 8-Digit Matching Table to Class Assignment (Memory Block 1-1-61).

Note 2: If the interdigit time duration of the dialing party exceeds 10 seconds while the Code Restriction Tables are being searched, the system automatically drops the call.

SECTION 7
AUTOMATIC ROUTE SELECTION

7.1 General

Route Selection is automatically directed by user-specified conditions.

Four least cost routing (LCR) tables are provided for user-specified data that can be used to select a single route.

User can delete digits from or add digits to a user specified dialing number to use ARS to originate the call with least cost routing.

7.2 Memory Blocks

The following related Memory Blocks are used when assigning ARS.

Title	Memory Block
Access Code (1-Digit) Assignment	1-1-46
Class of Service (Station) Feature Selection 2	1-8-08
ARS Allow Deny Selection	1-14-00
ARS Dialing Assignment	1-14-01
ARS Dial Allow/Deny Selection	1-14-02
ARS Route Table Number Assignment	1-14-03
ARS Trunk Group to Route Number Assignment	1-14-04
ARS Digit Delete Assignment	1-14-05
ARS Digit Add Assignment	1-14-06
Trunk-to-Trunk Group Assignment	3-03
Trunk Type Selection	3-91
LCR Class Selection	4-40

7.3 Memory Block Description

7.3.1 Access Code (1-Digit) Assignment (Memory Block 1-1-46)

Use this Memory Block to assign Trunk Group Access code for LCR.

Default: Dial 9 Function number 101.

7.3.2 Class of Service (Station) Feature Selection 2 (Memory Block 1-8-08)

Use this Memory Block to allow/deny LCR Bypass (Page 3, LK4) for Trunk Groups 02~32).

Default: Deny.

Use this Memory Block to allow/deny ARS Overflow (Page 6, LK1) to trunk group 01 if programmed route is busy.

Default: Deny.

7.3.1 ARS Allow Deny Selection (Memory Block 1-14-00)

Use this Memory Block to specify whether or not to Allow / Deny ARS to function system wide.

Default: NO.

7.3.2 ARS Dialing Assignment (Memory Block 1-14-01)

Use this Memory Block to assign a dialing plan to one of four LCR tables. A maximum of 128 (up to 8 digits) dialing combinations are possible for each table.

Default: Not Assigned.

7.3.3 ARS Dial Allow/Deny Selection (Memory Block 1-14-02)

Use this Memory Block to Allow/Deny digits that are entered in the ARS dialing assignment to be routed using the ARS feature.

Default: YES (Allow).

7.3.4 ARS Route Table Number Assignment (Memory Block 1-14-03)

Use this Memory Block to assign each ARS Dialing Assignment to an ARS Route Assignment (01~32).

Default: 00 (Not used).

7.3.5 ARS Trunk Group to Route Number Assignment (Memory Block 1-14-04)

Use this Memory Block to specify whether a Trunk Group (TKGP) or Route Advance Group (RAB) is used by each ARS route number.

Trunk Group 1 origination (NORMAL) is used in the USA. If the call is not originated by pressing the line key or by dialing an access code of Trunk Group 1, and the LCR Class assignment is 0, the call is originated as is.

Default: NORMAL.

7.3.6 ARS Digit Delete Assignment (Memory Block 1-14-05)

Use this Memory Block to specify number of digits (00~10) from the first digit that are deleted from the route assignment.

Default: 00 (None).

7.3.7 ARS Digit Add Assignment (Memory Block 1-14-06)

Use this Memory Block to specify a maximum of 10 digits to add to the route assignment.

Default: Not Assigned.

7.3.8 Trunk-to-Trunk Group Assignment (Memory Block 3-03)

Use this Memory Block to to assign a Trunk Group number to each CO/PBX line.

Default: CO/PBX lines 01~08 in Trunk group 1.

7.3.9 Trunk Type selection (Memory Block 3-91)

Use this Memory Block to specify an external line as CO, PBX,TIE, DID or CTX.

Default: CO.

7.3.10 LCR Class Selection (Memory Block 4-40)

Use this Memory Block to specify the Least Cost Routing (LCR) class for each station. The class number is the number of the Area Code Table used. Stations cannot have multiple classes. Four area code tables are provided. The MIFM-U10 ETU must be installed to support this feature.

Default: Class 0 (No LCR).

7.4 ARS Operation Example

TEL100 dials 1-9727517645, seizes trunk 8, and sends 1010288 9727517645.

1. Program the following values, if necessary:

✆	1-1-46	9 (Trunk Group 1)
✆	1-8-08	Page 3, LK4 (Deny)
✆	1-14-00	YS
✆	1-14-01	1:1972751
✆	1-14-02	YS
✆	1-14-03	Table 1, Route 01
✆	1-14-04	TKGP 04
✆	1-14-05	01 Digit
✆	1-14-06	1010288
✆	3-03	Co lines 01, 02 to TKGP 1 Co lines 03, 04 to TKGP 2 Co lines 05, 06to TKGP 3 Co lines 07, 08 to TKGP 4
✆	3-91	Assign trunks 01~08 for CO
✆	4-40	TEL 100 assigned to class 1

2. Press (Speaker).
   Dial tone is heard.
   Speaker key is on red, and the top display shows: 100 →( ).

3. Dial (9).
   LCR Dial tone is heard.
   The top display shows: LCR

4. Dial 1 9 7 2 7 5 .

   No dial tone

   The LCD top display shows: 197275

5. Dial 1 .

   CO8 Line key is green

   The LCD top display shows: 1972751

6. Dial 7 6 4 5 .

   Ringback Tone is heard

   The LCD top display shows: 19727517645

7. When you go Off-hook to converse, Speaker goes off, and display changes to call time and Clock/Calendar.

8. The system actually dialed 1010288 9727517645 on CO8 of Trunk Group 4 after the route was selected.

7.5 Service Conditions

✆ Built-in ARS provides a system with four tables to allow route selection,and a single route table to select a Trunk Group or Route Advance Block and provide digit control.

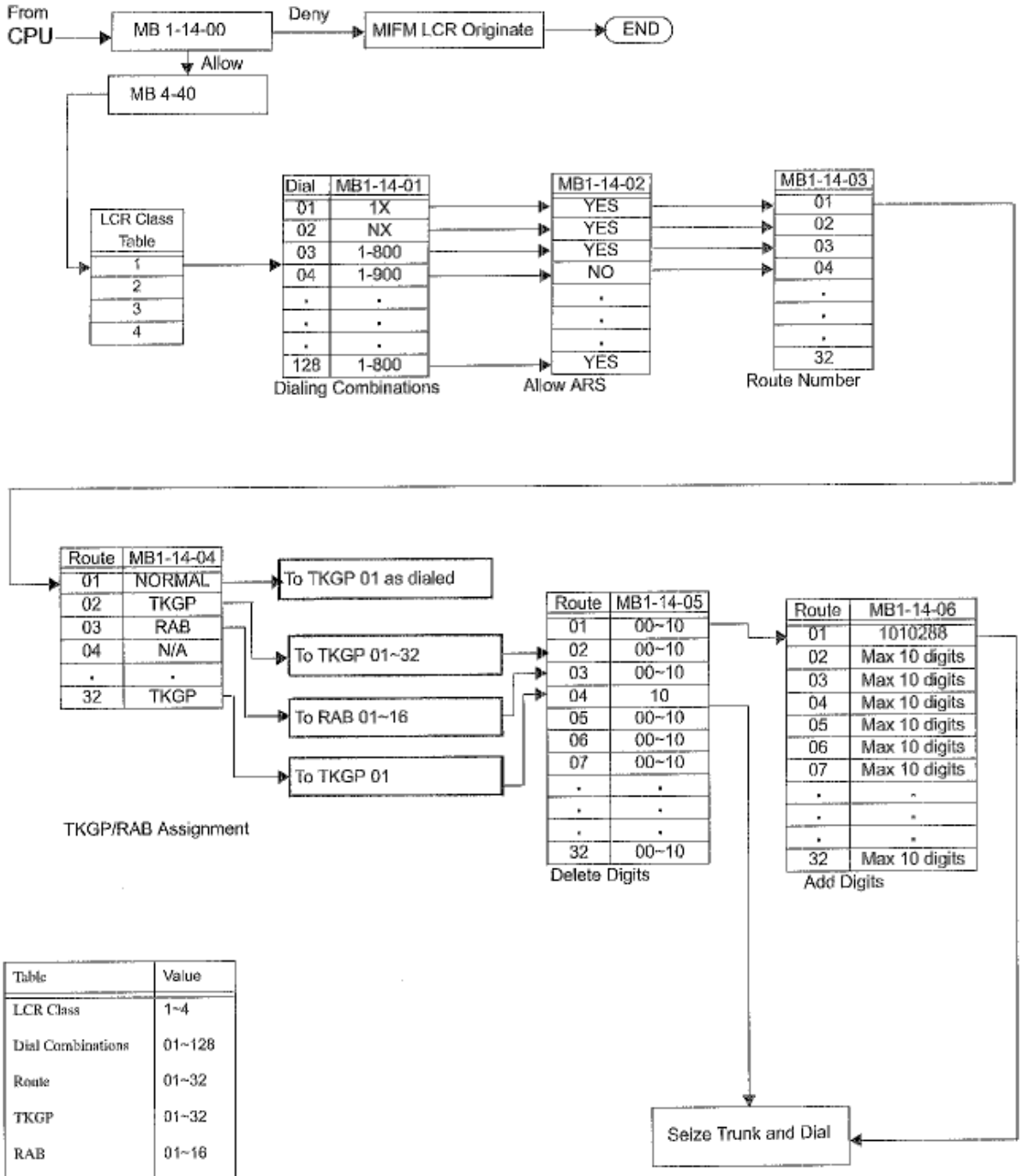


Table	Value
LCR Class	1~4
Dial Combinations	01~128
Route	01~32
TKGP	01~32
RAB	01~16
Delete digits	Up to 10
Add digits	Up to 10

Figure 1-5 ARS System Data Flow

Table 1-5 Automatic Route Selection to *Route Number Assignment*

Table 1~4	Dialing Combination	Digits (Max. 8) Memory Block 1-14-01	Allow/Deny M.B. 1-14-02	Route Number M.B. 1-14-03 (01~32)
	01			
	02			
	03			
	04			
	05			
	06			
	07			
	08			
	09			
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28			
	29			
	30			
	31			

Table 1-5 Automatic Route Selection to *Route Number Assignment*

Table 1~4	Dialing Combination	Digits (Max. 8) Memory Block 1-14-01	Allow/Deny M.B. 1-14-02	Route Number M.B. 1-14-03 (01~32)
	32			
	33			
	34			
	35			
	36			
	37			
	38			
	39			
	40			
	41			
	42			
	43			
	44			
	45			
	46			
	47			
	48			
	49			
	50			
	51			
	52			
	53			
	54			
	55			
	56			
	57			
	58			
	59			
	60			
	61			
	62			
	63			

Table 1-5 Automatic Route Selection to *Route Number Assignment*

Table 1~4	Dialing Combination	Digits (Max. 8) Memory Block 1-14-01	Allow/Deny M.B. 1-14-02	Route Number M.B. 1-14-03 (01~32)
	64			
	65			
	66			
	67			
	68			
	69			
	70			
	71			
	72			
	73			
	74			
	75			
	76			
	77			
	78			
	79			
	80			
	81			
	82			
	83			
	84			
	85			
	86			
	87			
	88			
	89			
	90			
	91			
	92			
	93			
	94			
	95			

Table 1-5 Automatic Route Selection to *Route Number Assignment*

Table 1~4	Dialing Combination	Digits (Max. 8) Memory Block 1-14-01	Allow/Deny M.B. 1-14-02	Route Number M.B. 1-14-03 (01~32)
	96			
	97			
	98			
	99			
	100			
	101			
	102			
	103			
	104			
	105			
	106			
	107			
	108			
	109			
	110			
	111			
	112			
	113			
	114			
	115			
	116			
	117			
	118			
	119			
	120			
	121			
	122			
	123			
	124			
	125			
	126			
	127			

Table 1-5 Automatic Route Selection to *Route Number Assignment*

Table 1~4	Dialing Combination	Digits (Max. 8) Memory Block 1-14-01	Allow/Deny M.B. 1-14-02	Route Number M.B. 1-14-03 (01~32)
	128			

Table 1-6 Route Number to Trunk Group/RAB Selection and Digit Control

Route Number M.B. 1-14-03	NORMAL, TKGP (01~32), or RAB (01~16) M.B.1-14-04	Delete Digits (00~10) M.B. 1-14-05	Add Digits (10 Max.) M.B. 1-14-06
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Table 1-6 Route Number to Trunk Group/RAB Selection and Digit Control

Route Number M.B. 1-14-03	NORMAL, TKGP (01~32), or RAB (01~16) M.B.1-14-04	Delete Digits (00~10) M.B. 1-14-05	Add Digits (10 Max.) M.B. 1-14-06
26			
27			
28			
29			
30			
31			
32			

- A single route is specified for each registered dialing number.
- If Memory Block 1-14-00 is set to allow, ARS functions even with the MIFM-U10 ETU installed, but LCR using the MIFM-U10 ETU is disabled.
- The MIFM-U10 ETU is required for charge display to function.
- The ARS dialing numbers are checked according to the following priorities:
  Complete table match
  Allow/Deny in the order 0~9, *, # or P/N or X
  Data sorted in the order 0~9, *, # or P/N or X.
- The program cannot detect 1+; it must be entered in the table.
- Numbers affected by code restriction using Memory Block 1-1-82, need not be specified as 8-digit dialing numbers in the ARS table because they are automatically excluded from ARS.
- NORMAL origination in USA is Trunk Group 1.
- When a dialing number is not subjected to ARS, it is either originated according to the LCR bypass specification or busy.
- When ARS begins checking a received number, a 10-second timer is set. When timeout occurs, ARS ends and normal origination is performed.

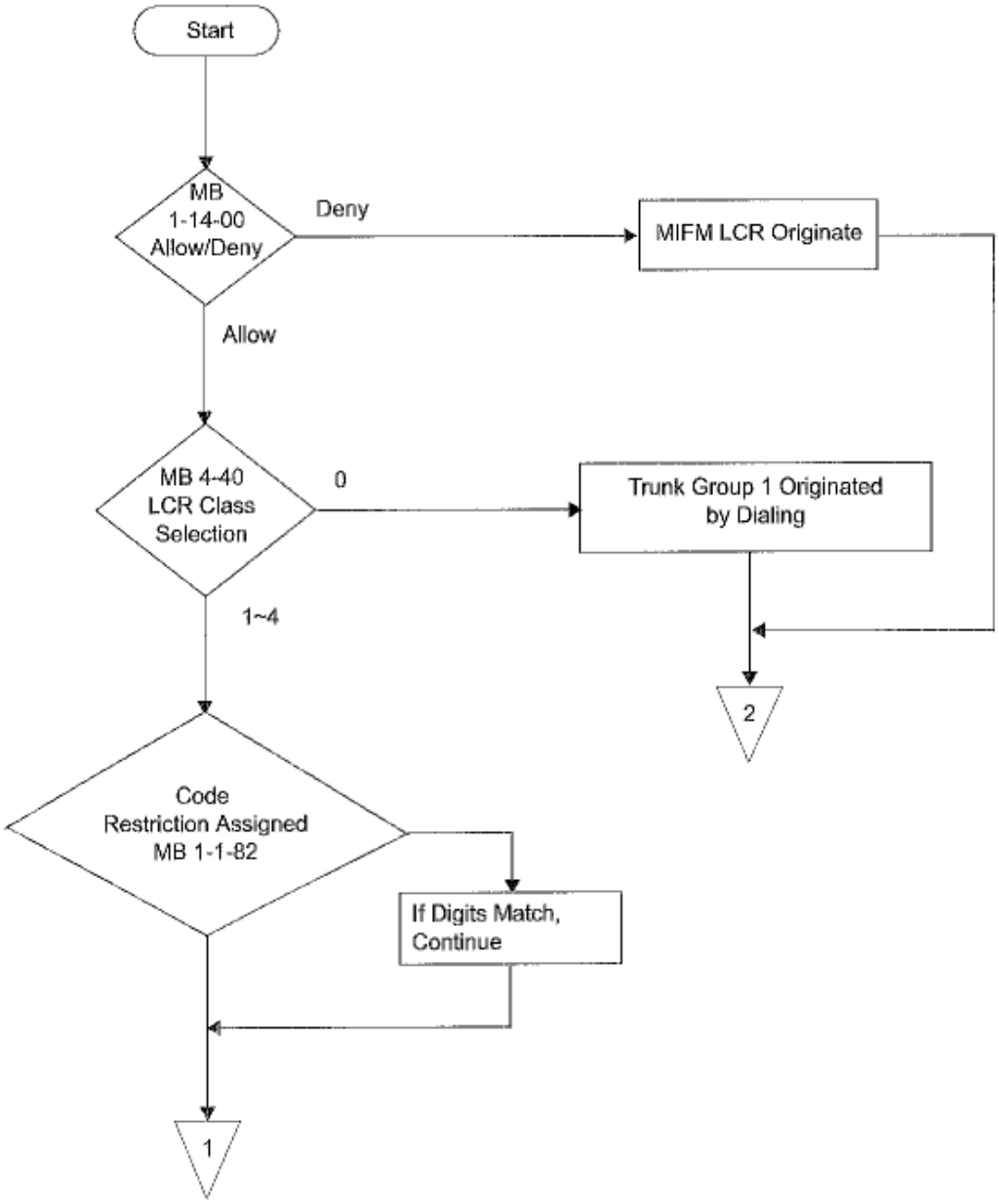
7.6 ARS Flowcharts

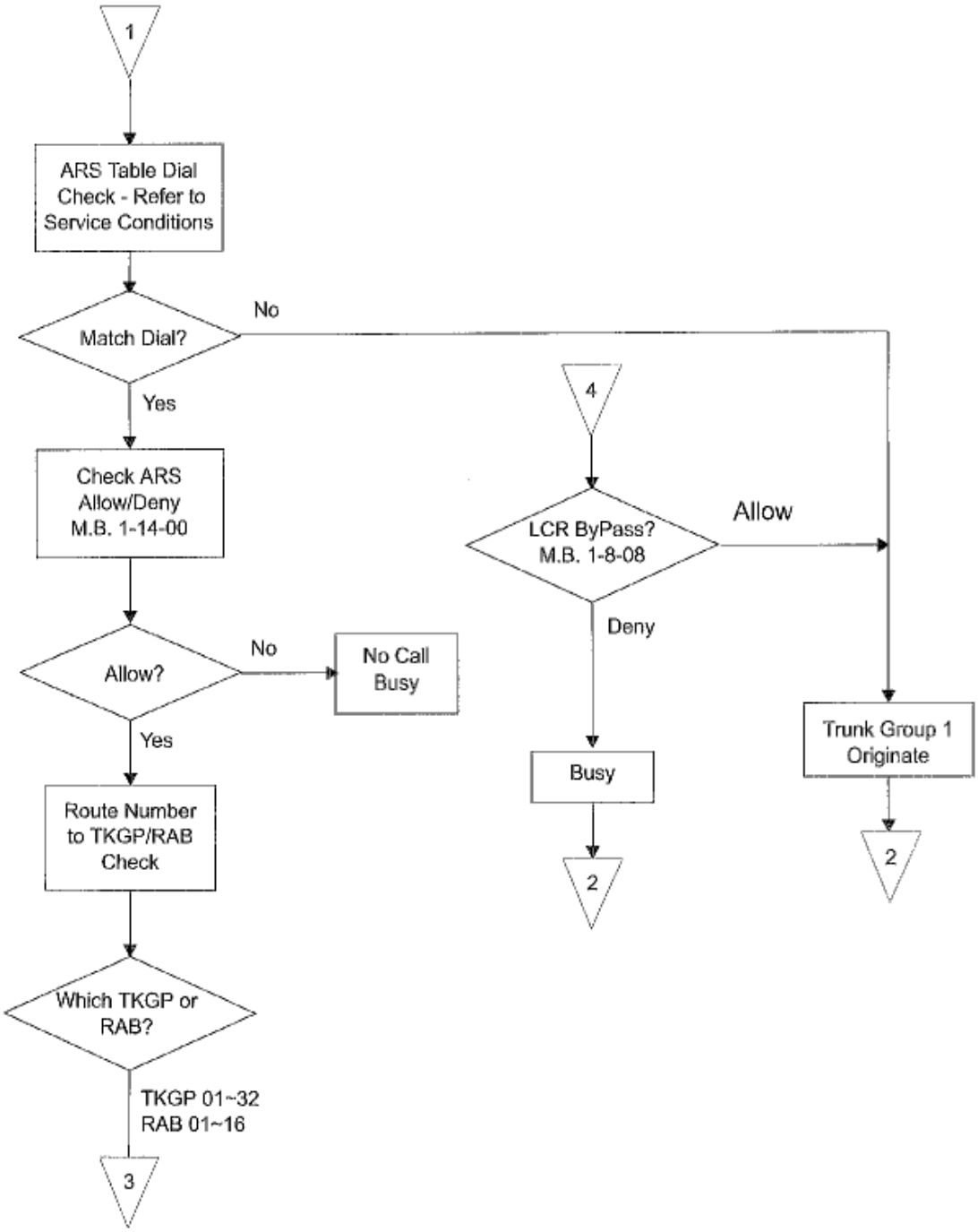
The flowcharts show how origination by Trunk Group 1 is determined.

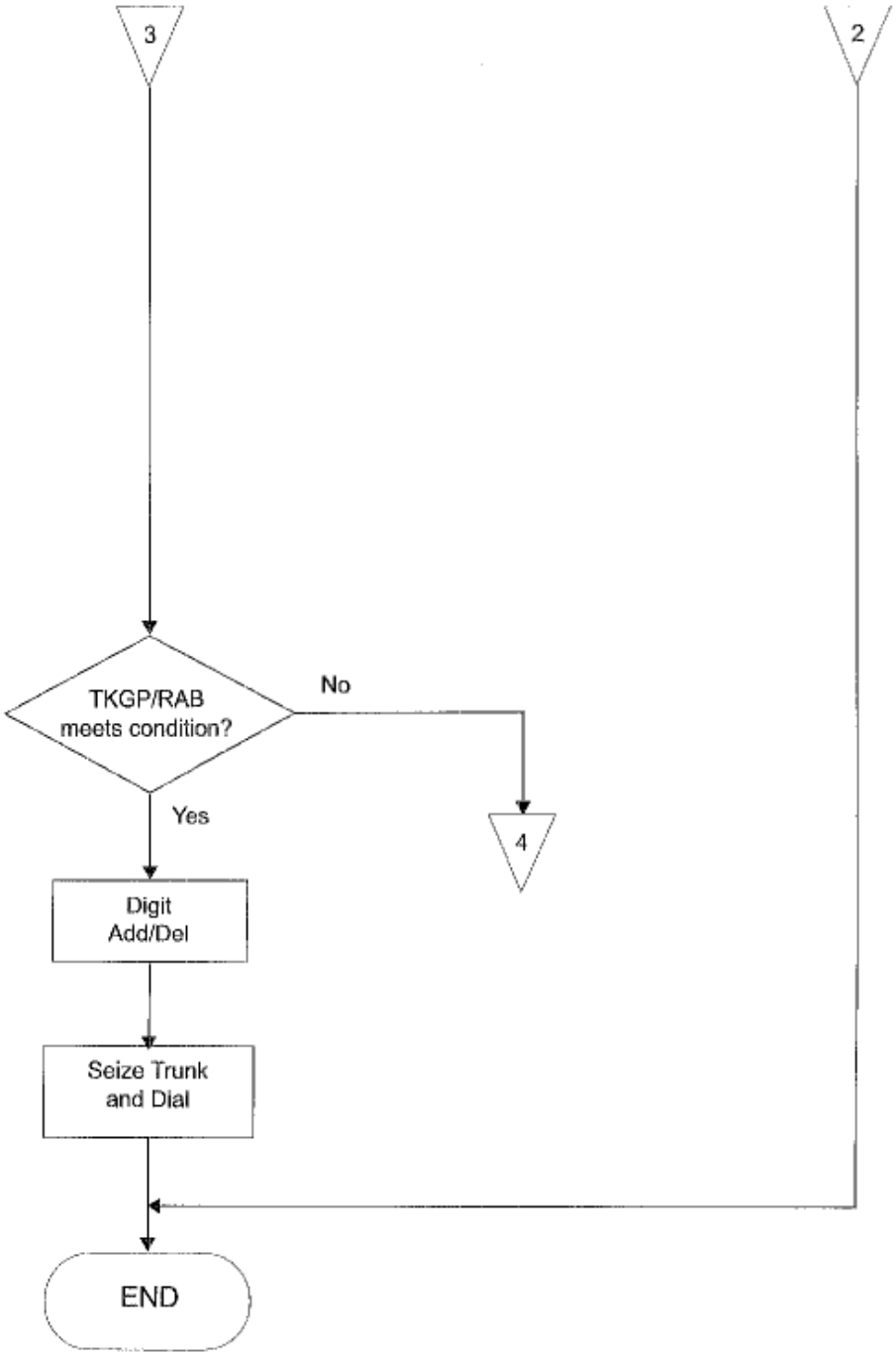
If the call is not originated by pressing a line key or dialing a Trunk Group 1 access code and the LCR Class is 0, the call is originated as is.

If LCR Class 1, 2, 3, or 4 is selected the call is originated according to bypass specifications in the class of service and becomes busy.

Automatic Route Selection Flowcharts




1
ARS Table Dial Check - Refer to Service Conditions
Match Dial?
No
Yes
Check ARS Allow/Deny M.B. 1-14-00
Allow?
No
No Call Busy
Yes
Route Number to TKGP/RAB Check
Which TKGP or RAB?
TKGP 01~32
RAB 01~16
3
4
LCR ByPass? M.B. 1-8-08
Allow
Deny
Busy
2
Trunk Group 1 Originate
2


3
2
TKGP/RAB
meets condition?
No
Yes
4
Digit
Add/Del
Seize Trunk
and Dial
END

SECTION 8
ISDN-PRI CALL BY CALL

8.1 General

Call by Call Service allows multiple services to share a PRI line.

When a call is originated or terminated, an Information Element (IE) called the Network Specified Facility (NSF) is added to the SETUP message to identify the service associated with the call.

The number of Simulated Facility Groups (SFGs) that can be simultaneously used for each service must be restricted. The total number of SFGs must be less than the number of PRI channels. The SFGs are determined when contracting with the network. The network determines whether calls that exceed the restriction are rejected or diverted. For outgoing calls, the KTS counts the number of calls in progress per group, and rejects excess calls.

8.2 Memory Blocks

The following related Memory Blocks are used when assigning Call by Call.

Title	Memory Block
DID Digit Length Selection	1-1-20
DID Digit Conversion Assignment	1-1-21
DID Digit Conversion Table	1-1-22
DID Forward Station Number for Busy Station or undefined digit	1-1-23
Access Code (1~3 Digit) Assignment	1-1-46~48
Route Advance Block Assignment	1-1-30
ISDN DTMF Duration/Interdigit Selection	1-1-80
ISDN Dial Interval Time Selection	1-1-81
SLT or Automated Attendant/DISA to CPU PBR Selection	1-8-01
PBR Receive Level Assignment for Automated Attendant/DISA	1-8-02
Master Clock Selection	1-8-33

Trunk to Tenant Assignment 2-01
Line Key Selection 2-05
Line Key Selection for Tenant Mode 2-06
Trunk-to-Trunk Group Assignment 3-03
Trunk Incoming Answer Mode Selection 3-05
Automatic Release Signal Detection Selection 3-40
DIT Assignment 3-42
ANA Assignment 3-43
ISDN Trunk Directory Number Assignment 3-52
Caller Name Indication Selection 3-53
Trunk Type Selection 3-91
Trunk (Installed, DP/DTMF) Selection 3-92
CO/PBX Ring Assignment (Day Mode) 4-01
CO/PBX Ring Assignment (Night Mode) 4-02
Telephone to Tenant Assignment 4-09
Line key Selection for Telephone Mode 4-12
Station to Call Appearance Block Assignment 4-43
ISDN Calling Party ID Transfer Yes/No Selection 4-47
PRT Channel Assignment 1-13-00
Call by Call Service Selection 1-13-03
Call by Call Type of Number Assignment 1-10-02
Call by Call Numbering Plan ID Assignment 1-10-03
Call by call Type of Network ID Assignment 1-10-00
Call by Call ID Plan Assignment 1-10-01
Call by Call Network ID Assignment 1-10-04
Call by Call Facility Coding Value Assignment (Service) 1-10-05
Call by Call Facility Coding Value Assignment (Feature) 1-10-06
Call by Call Service Parameter Assignment 1-10-07

Call by Call Max Digit Assignment 1-10-08

Call by Call Simulated Facility Group Assignment 1-10-09

Call by Call Outgoing SFG Assignment 1-10-20

Call by Call Outgoing/Incoming SFG Assignment.....1-10-21

Call by Call Incoming Type Selection.....1-10-22

8.3 Memory Block Description

8.3.1 DID Digit Length Selection (Memory Block 1-1-20)

Use this Memory Block to define the number of DID digits.

Default: 3

8.3.2 DID Digit Conversion Assignment (Memory Block 1-1-21)

Use this Memory Block to enable the DID Digit Conversion table.

Default: NO

8.3.1 DID Digit Conversion Table (Memory Block 1-1-22)

Use this Memory Block to assign DID numbers to ring at station numbers, closed number (plus outgoing digits), or tenant number

Default: Not Specified

8.3.2 DID Forward Station Number for Busy Station or Undefined Digit (Memory Block 1-1-23)

Use this Memory Block when the DID conversion Table is enabled to define where digits are routed when undefined or the station is busy.

Default: NON (Not Assigned)

8.3.3 Access Code (1~3 Digit) Assignment (Memory Block 1-1-46~48)

Use this Memory Block to assign access codes or station numbers.

Default: Function 080 Not Specified, Function 101(TG01) is 9, and no RABs (Function 201~216) are specified

8.3.4 Route Advance Block Assignmentt (Memory Block 1-1-30)

Use this Memory Block to assign priority levels to each Trunk Group assigned in a route advance Block.

Default: All Blocks 00

8.3.5 ISDN DTMF Duration/Interdigit Selection (Memory Block 1-1-80)

Use this Memory Block to specify tone duration and interdigit time of DTMF signals for ISDN trunks.

Default: 100/70 milliseconds

8.3.6 ISDN Dial Interval Time Selection (Memory Block 1-1-81)

Use this Memory Block to specify time between digits dialed.

Default: 8s

8.3.7 SLT or Automated Attendant/DISA to CPU PBR Selection (Memory Block 1-8-01)

Use this Memory Block to specify whether the PBR circuits in the CPU are for Single Line Telephones or Automated Attendant/DISA.

Default: SLT

8.3.8 PBR Receive Level Assignment for Automated Attendant/ DISA(Memory Block 1-8-02)

Use this Memory Block to Specify the receiving level at the Automated Attendant /DISA.

Default: 03

8.3.9 Master Clock Selection (Memory Block 1-8-33)

Use this Memory Block to assign the source for synchronization of the clocking for DTI-U10/20, PRT(1)-U10, or BRT(4)-U10 ETU.

Default: Not assigned

8.3.10 Trunk to Tenant Assignment (Memory Block 2-01)

Use this Memory Block to assign CO/PBX lines to tenants.

Default: CO/PBX lines 01~64 are assigned.

8.3.11 Line Key Selection (Memory Block 2-05)

Use this Memory Block to select Tenant mode or Telephone Mode line key assignment for each tenant.

Default: TEL

8.3.12 Line Key Selection for Tenant Mode (Memory Block 2-06)

Use this Memory Block to assign functions to each telephone line key for Tenant Mode.

Default: Tenant 00, Line keys 01~08 are assigned to CO.
Tenants 01~47 are unassigned)

8.3.13 Trunk-to-Trunk Group Assignment (Memory Block 3-03)

Use this Memory Block to assign a Trunk Group number to each CO/PBX line.

Default: Lines 01~08 assigned to Trunk Group 01
Lines 09~64 assigned to Trunk Group 00
All Tie Lines assigned to Trunk Group 02
All DID lines assigned to Trunk Group 00

8.3.14 Trunk Incoming Answer Mode Selection (Memory Block 3-05)

Use this Memory Block to specify the incoming answer mode per outside line as NO ASSIGN (Normal), TANDM TRF (automatic trunk-to-trunk transfer), or AA (Automated Attendant/DISA).

Default: NO ASSIGN

8.3.15 Automatic Release Signal Detection Selection (Memory Block 3-40)

Use this Memory Block to specify signal detection time for release of a CO/PBX line after a disconnect signal is received from the Central Office or PBX.

Default: 350 (milliseconds)

8.3.16 DIT Assignment (Memory Block 3-42)

Use this Memory Block to assign a Day Mode direct-trunk termination to an independent station.

Default: No Assignment

8.3.17 ANA Assignment (Memory Block 3-43)

Use this Memory Block to assign a Night Mode direct-trunk termination to an independent station.

Default: No Assignment

8.3.18 ISDN Trunk Directory Number Assignment (Memory Block 3-52)

Use this Memory Block to assign ISDN Directory Number.

Default: Not Specified

8.3.19 Line Key Selection (Memory Block 3-53)

Use this Memory Block to check the speed dialing buffer for a match when a Caller ID Number is detected. If a name is assigned to a matched number, it can be displayed if Line key 3 (NAM) is selected.

Default: NUM

8.3.20 Trunk Type Selection (Memory Block 3-91)

Use this Memory Block to specify an external line as CO, PBX (or CTX), TIE, DID, or CTX (Assume 9).

Default: CO

8.3.21 Trunk (Installed, DP/DTMF) Selection (Memory Block 3-92)

Use this Memory Block to specify an external line as NIL (Not connected), DP 10 pps, DP 20 pps, or MF (DTMF).

Default: MF

8.3.22 CO/PBX Ring Assignment (Day Mode) (Memory Block 4-01)

Use this Memory Block to assign incoming CO/PBX calls to ring on Multiline Terminals in the Day mode.

Default: Lines 01~08 ring at telephone ports 01 and 02

8.3.23 CO/PBX Ring Assignment (Night Mode) (Memory Block 4-02)

Use this Memory Block to assign incoming CO/PBX calls to ring on Multiline Terminals in the Night mode.

Default: Lines 01~08 ring at telephone ports 01 and 02

8.3.24 Telephone to Tenant Assignment (Memory Block 4-09)

Use this Memory Block to specify Tenant assignment per station.

Default: All telephones assigned to Tenant 00

8.3.25 Line key Selection for Telephone Mode (Memory Block 4-12)

Use this Memory Block to assign functions to each CO/PBX line key on each tenant assigned to telephone mode.

Default: Line keys 01~08 are assigned as CO for all telephones

8.3.26 Station to Call Appearance Block Assignment (Memory Block 4-43)

Use this Memory Block to assign a multiline Terminal to a Call Appearance Block.

Default: All stations are assigned to CAP Block 00

8.3.27 ISDN Calling Party ID Transfer Yes/No Selection (Memory Block 4-47)

Use this Memory Block to specify whether or not the Directory Number is presented to the Network when a call is placed from the programmed station..

Default: YS

8.3.28 PRT Channel Assignment (Memory Block 1-13-00)

Use this Memory Block to assign B channels for PRI.

Default: 24

8.3.29 Call by Call Service Selection (Memory Block 1-13-03)

Use this Memory Block to specify whether (YS) or not (NO) Call by Call is specified per PRT line.

Default: NO

8.3.30 Call by Call Type of Number Assignment (Memory Block 1-10-02)

Use this Memory Block to specify a TN for each Route Advance Block (RAB) as 0 (Unknown), 1 (International), 2 (National), 3 (Network Specific), or 4 (Subscriber or local).

Default: 0 for all RABs

8.3.31 Call by Call Numbering Plan ID Assignment (Memory Block 1-10-03)

Use this Memory Block to specify Numbering Plan ID (NPI) for each RAB as 0 (Unknown), 1 (ISDN/Telephony), 2 (Reserved), 3 (Data, in the future), or 9 (Private).

Default: 0 for all RABs

8.3.32 Call by call Type of Network ID Assignment (Memory Block 1-10-00)

Use this Memory Block to specify Type of Network ID (TNI) for each RAB as 0,1 (Reserved), 2 (National Network), 3~7 (Reserved).

The Network ID (Memory Block 1-10-04) must be assigned.

Default: 2 for all RABs

8.3.33 Call by Call ID Plan Assignment (Memory Block 1-10-01)

Use this Memory Block to specify Network ID Plan (NIP) for each RAB as 0 (Reserved), 1 (Interexchange Carrier), 2~15 (Reserved).

The Network ID (Memory Block 1-10-04) must be assigned.

Default: 1 for all RABs

8.3.34 Call by Call Network ID Assignmentt (Memory Block 1-10-04)

Use this Memory Block to specify Network ID (NID) for each RAB.

Default: All RABs are unspecified

8.3.35 Call by Call Facility Coding Value Assignment (Service) (Memory Block 1-10-05)

Use this Memory Block to specify Facility Coding Value (Service) for each RAB as specified by the Memory Block table.

Default: All blocks 00 (None)

8.3.36 Call by Call Facility Coding Value Assignment (Feature) (Memory Block 1-10-06)

Use this Memory Block to specify Facility Coding Value (Feature) for each RAB as specified by the Memory Block table.

Default: All blocks 00 (None)

8.3.37 Call by Call Service Parameter Assignment (Memory Block1-10-07)

Use this Memory Block to specify Call Service Parameter for each RAB as specified by the Memory Block table.

Default: All RABS are undefined

8.3.38 Call by Call Max Digit Assignment (Memory Block 1-10-08)

Use this Memory Block to specify Max Digit for each RAB.

Default: All RABs 00 (Don't send delimiter)

8.3.39 Call by Call Simulated Facility Group Assignment (Memory Block 1-10-09)

Use this Memory Block to specify a Simulated Facility Group (01~16) to control SFGs of each facility for each RAB.

Default: All RABs 00 (None)

SFGs for FX can be defined per FX Facility Group for incoming, outgoing, and Incoming/outgoing calls using an FX Facility Group.

SFGs for Tie Trunks can be defined per Tie Trunk Facility Group for incoming, outgoing, and Incoming/outgoing calls using a Tie Trunk Facility Group.

SFGs for OUTWATS can be defined for outgoing calls per individual OUTWATS service. For IntraLATA and banded OUTWATS, an SFG is assigned to each band. For InterLATA OUTWATS, an SFG is assigned to each IC.

SFGs for INWATS can be defined for incoming calls per INWATS called DN.

8.3.40 Call by Call Outgoing SFG Assignment (Memory Block 1-10-20)

Use this Memory Block to specify an outgoing SFG for each SFG specified by Memory Block 1-10-09.

Default: 99

8.3.41 Call by Call Outgoing/Incoming SFG Assignment (Memory Block 1-10-21)

Use this Memory Block to specify an Outgoing or Incoming SFG for each SFG specified by Memory Block 1-10-09. The incoming SFG is controlled by the network.

Default: 99

8.3.42 Call by Call Incoming Type Selection (Memory Block 1-10-22)

Use this Memory Block to specify an Incoming Call Type for each SFG specified by Memory Block 1-10-09 as either CO (Normal) or DID.

Default: DID

8.4 CBC Programming (LCR PC Software V2.0 or Higher)

8.4.1 The International/Operator Table

This table has a page for each LCR Class (1~4) that contains fixed dialing patterns that can be assigned to that Class.

- Two routes can be assigned and arranged in priority. PRT should have higher priority.
- Trunk Group or Route Advance Blocks are specified in TG/RAB.
- Delete digits specifies the number of digits to delete from the first dial when using PRT.

- PreDigits controls whether digits that are specified in pre-digit tables are dialed before the International or Operator code.
- If TG/RAB is not assigned, outgoing calls cannot be made.

International or Operator Table

LCR Class 1~4	Dial	Priority	TG/RAB	Delete Digits	PreDigits Add/Not Add
Class1	0-	1			
		2			
	00	1			
		2			
	010	1			
		2			
	011	1			
		2			
	01N	1			
		2			
	ON	1			
	(N = 2~9)	2			

8.4.2 The OCC Table

This Table has 16 pages (called Table 1~Table 16) that are required for each of the LCR Classes for a total of 64 tables with fixed dialing patterns.

- Dial means following the OCC dial.
- Two routes can be assigned and arranged in priority. PRT should have higher priority.
- Trunk Group or Route Advance Blocks are specified in TG/RAB.
- Delete digits specifies the number of digits to delete from the first dial when using PRT.
- PreDigits controls whether digits that are specified in pre-digit tables are dialed before the International or Operator code.

✆I TG/RAB is not assigned, outgoing calls cannot be made.

✆ If an unassigned OCC number is dialed, route selection is bypassed.

OCC Table

Tables (64) 01~16 for each Class	OCC Dial	Dial	Priority	TG/RAB	Delete Digits	PreDigits Add/Not Add
	101XXXX (X = 0~9)	0-	1			
			2			
		00	1			
			2			
		011	1			
			2			
Table 1		0N	1			
			2			
		1N (N = 2~9)	1			
			2			
		NX (X = 0~9)	1			
			2			
		#	1			
			2			

8.4.3 Operator Call Timeout Table

This table specifies a timeout (0~9 seconds) that is used to distinguish between 0 and 00 of an Operator Call.

The MIFM-U10 ETU refers to this table when the first digit dialed is 0 or when 0 follows the OCC Dial.

8.5 Operating Procedures Example

Ensure that the following items are assigned or registered:

Memory Block	Setting
7-1	S1 MIFM S2 ESI TEL01~08 S4 PRT CO 01~24 S7 COI CO 25~32
1-1-20	4 Digits
1-1-21	YS
1-1-22	Digits Received 2000, Setting Data 100
1-1-30	Set all 16 RABs at 02 with number 1 priority
1-1-46	Set dial 9 to function 101 (Trunk Group 1)
1-1-81	4s
1-8-08	Page 3, LK4 to Allow Page4, LK1 to deny
1-13-03	PRT01 to YS
2-01	Co lines 01~23, 25~32 assigned to Tenant 00
3-03	Co lines 01~23 assigned to TKGP02 Co lines 25~32 assigned to TKGP03
3-91	Co lines 01~23 set to DID
3-92	Co line 24 set to NIL (Not installed)
4-12	TEL ports 01,02, LK01~16, C (CAP)01~16
4-40	Set TEL 01 and 02 to CLS 1

1-10-20	Group 01 to 08	MEGACOM
	Group 02 to 05	MEGACOM800
	Group 03 to 02	MultiQuest
	Group 04 to 02	Tie
	Group 05 to 02	FX
	Group 06 to 01	ACCUNET(Future)
	Group 07 to 03	OUTWATS
	Group 08~16 to 99 (default)	
1-10-21	Group 01 to 10	MEGACOM
	Group 02 to 05	MEGACOM800
	Group 03 to 02	MultiQuest
	Group 04 to 03	Tie
	Group 05 to 03	FX
	Group 06 to 01	ACCUNET (Future)
	Group 07 to 03	OUTWATS
	Group 08~16 to 99 (default)	
1-10-22	SFG05 to CO Other SFGs to DID	
3-42	Set CO 01~23 to TEL 101	
3-43	CO 01~23 unassigned	

Call by Call Memory Block Data (Example Only)

RAB	TN (02)	NPI (03)	TNI (00)	NIP (01)	NID (04)	FCVS (1-10-05)	FCVF (06)	SP (07)	MAX DIGIT (08)	SFG (09)
☞ Values in ( ) are the last two digits of Call by Call Memory Blocks (e.g. 1-10-0X).										
01	2	1	8	16	None	MEGACOM	00	N/A	11	1
02	4	1	8	16	None	MEGACOM	00	N/A	7	1
03	2	1	2	1	0288	MEGACOM	00	N/A	11	1
04	2	1	8	16	None	MEGACOM 800	00	N/A	7	2
05	2	1	8	16	None	MultiQuest	00	N/A	11	3
06	0	0	8	16	None	TIE	00	001	11	4
07	0	0	8	16	None	FX	00	100	11	5
08	1	1	2	1	3333	MEGACOM	00	N/A	0	1
09	0	0	8	16	None	MEGACOM	05	N/A	1	N/A
10	0	0	8	16	None	MEGACOM	06	N/A	2	N/A
11	0	0	8	16	None	MEGACOM	05	N/A	3	N/A

RAB	TN (02)	NPI (03)	TNI (00)	NIP (01)	NID (04)	FCVS (1-10-05)	FCVF (06)	SP (07)	MAX DIGIT (08)	SFG (09)
13	1	1	8	16	None	MEGACOM	05	N/A	0	N/A
14	2	1	8	16	None	MEGACOM	05	N/A	11	N/A
15	0	0	2	1	0288	MEGACOM	05	N/A	8	N/A
16	0	0	2	1	0288	MEGACOM	06	N/A	9	N/A
N/A	1	1	2	1	0288	MEGACOM	00	N/A	0	N/A
N/A	2	1	2	1	0288	MEGACOM	05	N/A	18	N/A
N/A	2	1	2	1	0288	MEGACOM	00	N/A	18	N/A
N/A	4	1	2	1	0288	MEGACOM	00	N/A	14	N/A
N/A	2	1	2	1	0288	MEGACOM	00	N/A	8	N/A
N/A	4	1	2	1	0288	MEGACOM	00	N/A	7	N/A
N/A	1	1	8	16	None	ACUNET	00	N/A	0	6
N/A	2	1	8	16	None	OUTWATS	00	1	7	7

Area Code Table 1

Area Code	Table Type	Table No.
212	Route Advance	01
214	Route Advance	02
333	Route Advance	03
800	Route Advance	04
913	Route Advance	05
400	Route Advance	06
500	Route Advance	07

Route Advance Table

Table No.	1st	2nd~8th
01	001	2nd:040; 3rd~8th: None
02	002	2nd:022; 3rd~8th:None
03	003	None
04	004	None
05	005	None
06	006	None
07	007	None

Route Table

Table #	TG/RAB	Area Code Delete	Extra Code Add	Prefix Add/Check	Service Area Check	Pre Digit Add
001	RAB 01	No Delete	No Add	No Add	No Check	No Add
002	RAB 02	Delete	No Add	No Add	Check Office Code Table 001	No Add
003	RAB 03	No Delete	No Add	No Add	No Check	No Add
004	RAB 04	No Delete	No Add	No Add	No Check	No Add
005	RAB 05	No Delete	No Add	No Add	No Check	No Add
006	RAB 06	No Delete	No Add	No Add	No Check	No Add
007	RAB 07	No Delete	No Add	No Add	No Check	No Add
008	RAB 08	No Delete	No Add	No Add	No Check	No Add
009	RAB 09	No Delete	No Add	No Add	No Check	No Add
010	RAB 10	No Delete	No Add	No Add	No Check	No Add
011	RAB 11	No Delete	No Add	No Add	No Check	No Add
012	RAB 12	No Delete	No Add	No Add	No Check	No Add
013	RAB 13	No Delete	No Add	No Add	No Check	No Add
014	RAB 14	No Delete	No Add	No Add	No Check	No Add
015	RAB 15	No Delete	No Add	No Add	No Check	No Add
016	RAB 16	No Delete	No Add	No Add	No Check	No Add
017	N/A	No Delete	No Add	No Add	No Check	No Add
018	N/A	No Delete	No Add	No Add	No Check	No Add
019	N/A	No Delete	No Add	No Add	No Check	No Add
020	N/A	No Delete	No Add	No Add	No Check	No Add
021	N/A	No Delete	No Add	No Add	No Check	No Add
022	N/A	No Delete	No Add	No Add	No Check	No Add
023	N/A	No Delete	No Add	No Add	No Check	No Add
024	N/A	Delete	No Add	No Add	Check Office Code Table 001	No Add
040	TG 03	No Delete	No Add	No Add	No Check	No Add

Office Code Table 001

Office codes	Designation Flag
222	In Service
345	In Service
Other	(Omission)

International/Operator Table 1

Dial	Priority	TG/RAB	Delete Digits	PreDigits	Number Sent to Network
0-	1	RAB 09	1	No Add	0-
	2	NONE	NONE	No Add	N/A
00	1	RAB 10	2	No Add	00-
	2	NONE	NONE	No Add	N/A
010	1	RAB 11	3	No Add	010
	2	NONE	NONE	No Add	N/A
011	1	RAB 8	3	No Add	011 +CC+NN
	2	N/A	3	No Add	SDS 011+CC+NN
01N (N =2~9)	1	RAB 13	2	No Add	01+CC+NN
	2	NONE	NONE	No Add	N/A
0N (N =2~9)	1	RAB 14	1	No Add	0+7D/10D
	2	NONE	NONE	No Add	N/A

OCC Table 1

Table	OCC Dial	Dial	Priority	TG/RAB	Delete Digits	PreDigits
1	1010288	0-	1	RAB 15	8	No Add
			2	NONE	NONE	No Add
		00	1	RAB 16	9	No Add
			2	NONE	NONE	No Add
		011	1	N/A	10	No Add
			2	NONE	NONE	No Add
		0N (N =2~9)	1	N/A	8	No Add
			2	NONE	NONE	No Add
		1N (N =2~9)	1	N/A	8	No Add
			2	NONE	NONE	No Add
		NX (N =2~9) (X =0~9)	1	N/A	7	No Add
			2	NONE	NONE	No Add
		#	1	N/A	7	No Add
			2	NONE	NONE	No Add

Operator Call Time Out Table

Operator Call Time Out
4 sec

8.6 Dialing Examples

8.6.1 Dial 9 (Trunk access code) 1-212-752-5000

LCR search sequence: Area Code:212 → Route Adv 01 → Route 01 → RAB 01→ TG 02 → CO 23.

8.6.2 Operation:

Step	TEL 100 Operation	LEDs	Tone	LCD	Note
1	Offhook		ICM DT	100 →	
2	Dial Trunk Access Code (9)		LCR DT from KSU	LCR	
3	Dial 1 (First Digit)		None	1	
4	Dial 212	CAP00-01 Green	None	1212	Add 1 to SFG 1 counters
5	Dial 7525000	CAP00-01 Green	RBT	12127525000	SETUP sent to Network
6	PRT connected	CAP00-01 Green	Voice	0:01	Start elapsed time

8.6.3 Route Information from MIFM-U10 ETU

Fixed dial number	4
LCR	Analysis Possible
Route	Yes
TEL Number	TEL 01
Trunk Group Number	RAB 01
LCR Dial	212

8.6.4 Setup Message to Network

CPN				NSF						
RAB	TN	NPI		TNI	NIP	NID	F/S FCV	Service FCV	Feature FCV	Service Parameter
01	2(N)	1	212-752-5000	None	None	None	S	MEGACOM	None	

8.7 Service Conditions

- The Electra Elite supports the AT&T 5ESS-2000 switch, Software release 5E12 or later using the National ISDN PRI version only.
- Caller ID is displayed as with normal CO calls.
- LCR is necessary for Call by Call origination.
- For an outgoing call to an external line, dialed digits are sent collectively when the specified ISDN interdigit dialing interval (MB 1-1-81, ISDN Dial Interval Time Selection, 4 sec default) from the last digit expires. If a digit is not dialed after seizure of the external line before the interdigit interval times out, the external line is released and a Busy Tone is returned.
- When Call forward Off-premise is assigned, MB 4-47 (ISDN Calling Party ID Transfer Yes/No Selection) follows the specification at the TEL to which the call is forwarded.
- For PRI trunks, CO or DID type should be assigned using MB 3-91 (Trunk Type Selection).
- If PRT is used as an outgoing trunk on Automatic Trunk-to-Trunk transfer, Caller ID follows the MB 3-52 (ISDN Trunk Directory Number selection) setting. If allowed, Caller ID is sent to the network.
- For an incoming call, the lowest numbered channel in the PRT trunk is used.
- When bypassing LCR for CBC, press a line key assigned for RAB or Dial the RAB access code to access the RAB. Using LCR requires dialing 1+NXX+NXX+XXXX. Pressing the RAB line key requires dialing NXX+NXX+XXXX. The greater of the two should be registered in MB 1-10-08 (Call by Call Max Digit Assignment).

  ☞ LCR should be assigned to delete the 1. It should not be sent to the network.
- The system sends the number dialed to the network by the earliest occurrence of the following. Either the Max digits assigned by MB 1-10-08 (Call by Call Max Digit Assignment) are reached or the ISDN Dial Interval Time expires.

- An incoming call is regarded as DID, but if called party information is not sent, it is regarded as a normal incoming call. Day Night Ring or DIT/ANA should be set for all COs.
- CBC parameters can be set to all assigned values. If an unused value is set, outgoing calls may not process properly.
- The Type of Network ID (TNI), Network ID Plan (NIP) and Network ID (NID) are mutually related. If NID is not registered, TNI, NIP, and NID are not sent. If NID is registered, the registered values for NIP and TNI are sent.
- Main Software controls the incoming SFG as follows:

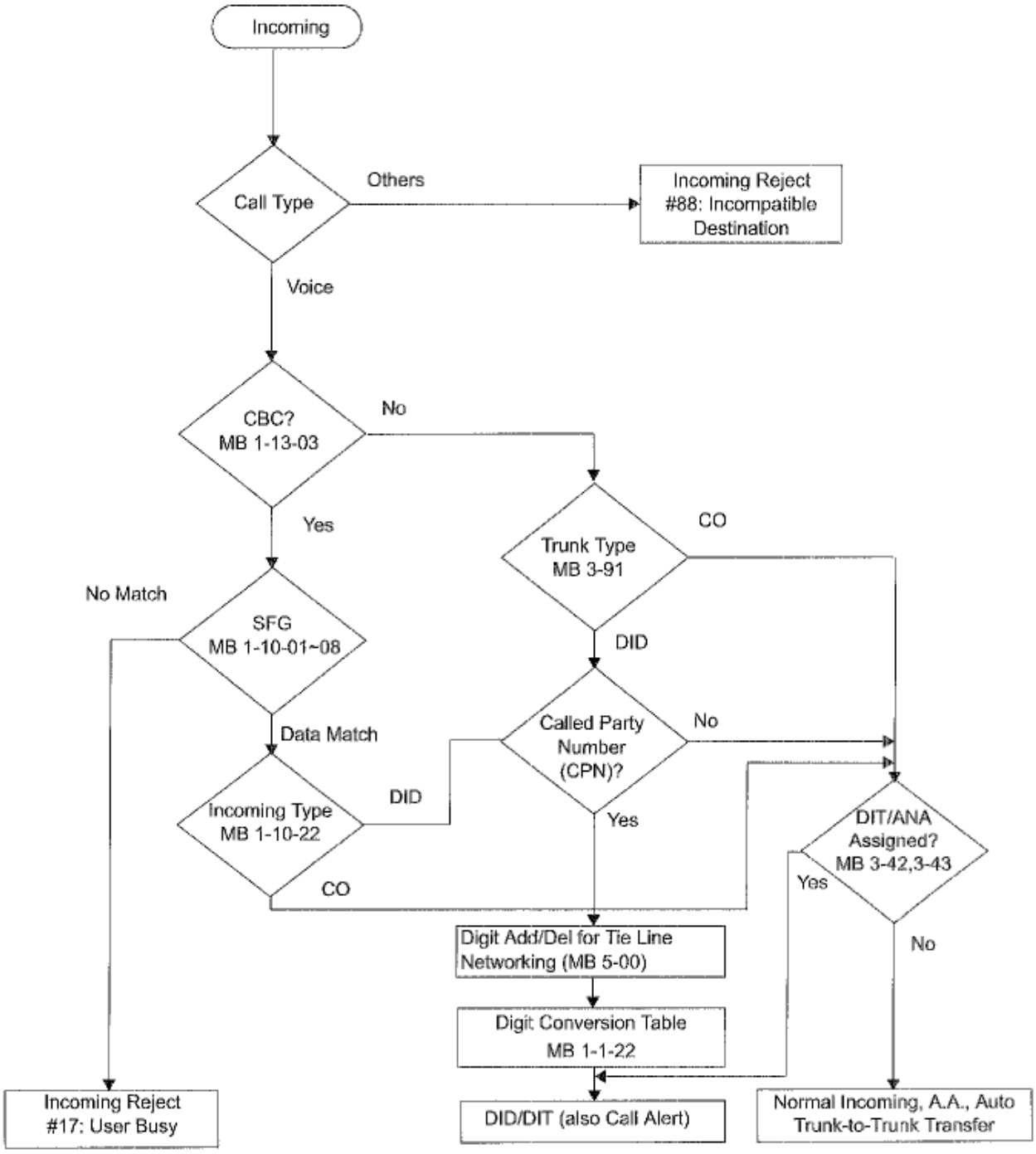
  1. The Facility Coded Value (FCV), NID, and Service parameters are extracted from the NSF-I.
  2. The RAB based CBC values are searched for a match.
  3. If a match is found, the assigned SFG value is used.
  4. If no match is found, the call is rejected for cause #88 (User Busy).
  5. If an incoming call indication is received, and the call is processed, the counter for incoming calls is incremented by one.

- When an outgoing call is processed, the counter for incoming calls is incremented by one. If the call is terminated before sending a SETUP message to the network, the outgoing call is canceled and the call counter is decreased by one.
- If incoming and outgoing calls are processed simultaneously the incoming call has priority. A collision error between simultaneous SETUP messages is generated, and the outgoing call gets a busy signal.
- The Incoming/outgoing (IC/OG) SFG must be equal to or greater than the outgoing (OG) SFG. If not, in many cases, the Electra Elite system will not accept an incoming call.
- If operator Call Timeout is set to 0, the operator call requiring more than 1 digit cannot be used. When 0 + any digits is stored in speed dial, the system sends the call as 0 Call (operator) only.

8.8 CBC Termination Flowchart

The flowchart shows how CBC incoming Calls are terminated.

CBC Call Termination Flowchart



SECTION 9 CHARACTER ASSIGNMENT

9.1 Character Code Tables

The character code tables are used when entering some of the functions provided with the Electra Elite system.

With Software Series S4000, or higher, characters can be entered using the dial pad instead of the Character Code Tables. Refer to 9.2 Dial Pad Character Assignment.

☞ Codes 166~221 and 250~252 are used for Japanese characters only.

Character	Code
BLANK	032
!	033
‖	034
#	035
$	036
%	037
&	038
'	039
(	040
)	041
*	042
+	043
,	044
—	045
–	046
/	047
0	048
1	049
2	050
3	051
4	052
5	053
6	054
7	055
8	056
9	057
:	058
;	059
<	060
=	061
>	062
?	063

Character	Code
@	064
A	065
B	066
C	067
D	068
E	069
F	070
G	071
H	072
I	073
J	074
K	075
L	076
M	077
N	078
O	079
P	080
Q	081
R	082
S	083
T	084
U	085
V	086
W	087
X	088
Y	089
Z	090
[	091
¥	092
]	093
^	094
_	095

Character	Code
\	096
a	097
b	098
c	099
d	100
e	101
f	102
g	103
h	104
i	105
j	106
k	107
l	108
m	109
n	110
o	111
p	112
q	113
r	114
s	115
t	116
u	117
v	118
w	119
x	120
y	121
z	122
{	123
|	124
}	125
Æ	126
¨	127

Character	Code
Blank	160
｡	161
｢	162
｣	163
､	164
･	165
ｦ	166
ｧ	167
ｨ	168
ｩ	169
ｪ	170
ｫ	171
ｬ	172
ｭ	173
ｮ	174
ｯ	175
ｰ	176
ｱ	177
ｲ	178
ｳ	179
ｴ	180
ｵ	181
ｶ	182
ｷ	183
ｸ	184
ｹ	185
ｺ	186
ｻ	187
ｼ	188
ｽ	189
ｾ	190
ｿ	191

Character	Code
ﾀ	192
ﾁ	193
ﾂ	194
ﾃ	195
ﾄ	196
ﾅ	197
ﾆ	198
ﾇ	199
ﾈ	200
ﾉ	201
ﾊ	202
ﾋ	203
ﾌ	204
ﾍ	205
ﾎ	206
ﾏ	207
ﾐ	208
ﾑ	209
ﾒ	210
ﾓ	211
ﾔ	212
ﾕ	213
ﾖ	214
ﾗ	215
ﾘ	216
ﾙ	217
ﾚ	218
ﾛ	219
ﾜ	220
ﾝ	221
ﾞ	222
ﾟ	223

Character	Code
α	224
ä	225
β	226
ε	227
μ	228
σ	229
ρ	230
⁴	231
√	232
-1	233
j	234
×	235
¢	236
£	237
n̄	238
ö	239
ρ	240
q	241
θ	242
∞	243
Ω	244
ü	245
Σ	246
π	247
x̄	248
ｻ	249
千	250
万	251
円	252
÷	253
Blank	254
■	255

9.2 Dial Pad Character Assignment

Refer to the applicable table and procedure example.

Table 1-7 System Data Input

Press	1	2	3	4	5	6	7	8	9	0	Redial
1st	1	A	D	G	J	M	P	T	W	0	*
2nd	@	B	E	H	K	N	Q	U	X	!	+
3rd	[	C	F	I	L	O	R	V	Y	"	,
4th	¥	a	d	g	j	m	S	t	Z	#	-
5th	]	b	e	h	k	n	p	u	w	$	.
6th	^	c	f	i	l	o	q	v	x	%	/
7th		2	3	4	5	6	r	8	y	&	:
8th	‘	To A	To D	To G	To J	To M	s	To T	z	'	;
9th	{						7		9	(	<
10th	|						To P		To W	)	=
11th	}									To 0	>
12th	→										?
13th	←										To *
14th	To 1										
*	Used to move cursor to left.										
#	Used to move cursor to right.										
Hold	Space (MB3-00) Data Clear (except MB3-00)										

9.2.1 Trunk name or Number Assignment Example

1. Enter Program Mode.

   Display shows PROGRAM MODE.

2. Press LK3.

   Display shows 01/_

3. Press LK2

   Display still shows 01/_

4. Press 6 6
   Display shows 01/N_.

5. Press 3 3
   Display shows 01/NE_.

6. Press 2 2 2
   Display shows 01/NEC_.

7. Press Transfer
   Display shows 01/02:OUT&IN

Table 1-8 Speed Dial Name Input

Press	1	2	3	4	5	6	7	8	9	0	*	#
1st	1	A	D	G	J	M	P	T	W	0	*	Set
2nd	@	B	E	H	K	N	Q	U	X	!	+	Space
3rd	[	C	F	I	L	O	R	V	Y	"	,	To Set
4th		a	d	g	j	m	S	t	Z	#	-	
5th	]	b	e	h	k	n	p	u	w	$	.	
6th	^	c	f	i	l	o	q	v	x	%	/	
7th	¥	2	3	4	5	6	r	8	y	&	:	
8th	'	To A	To D	To G	To J	To M	s	To T	z	'	;	
9th	{						7		9	(	<	
10th	|						To P		To W	)	=	
11th	}									To 0	>	
12th	→										?	
13th	←										To *	
14th	To 1											
Conf	Clear and 1 character back from the cursor.											

9.2.2 Enter Speed Dial Name

1. Press inactive (Feature)
   Display is blank.

2. Press (Redial)
   Display shows_:

3. Press (0) (0)
   Display shows 00:_

4. Press (0)
   Display shows 00:0:_

5. Press (1) (2) (3) (4) (5)
   Display shows 00:0:12345_.

6. Press Hold
   Display shows 00=_

7. Press 6
   Display shows 00=M_

8. Press 6
   Display shows 00=N_.

9. Press 3
   Display shows 00=ND_.

10. Press 3
    Display shows 00=NE_.

11. Press 2
    Display shows 00=NEA_.

12. Press 2
    Display shows 00=NEB_.

13. Press 2
    Display shows 00=NEC_.

14. Press #
    Display shows 00=NEC_.

15. Press 2
    Display shows 00=NECA_.

16. Press 6
    Display shows 00=NECAM_.

17. Press Feature.

SECTION 10
DISPLAY
ABBREVIATIONS

Abbreviations found in the display are defined in below.

Table 1-9 Abbreviations used in Multiline Terminal Displays

ADD/DEL	: Addition/Deletion	ESP	: External Speaker
AL	: All	FWDG	: Forwarding
ALM	: Alarm	FLSH	: Flash
ANS	: Answer	GUARD	: Outgoing Guard Time
ANSWR	: Answer	H	: High
ASSGN	: Assignment	HR	: Hour
AUT	: Automatic	ICM	: Intercom (Extension)
AUTANS	: Autoanswer	IMDT	: Immediate
BLANK	: Service Class	IN	: Incoming
BNCE	: Bounce	INC	: Incoming Signal Detection Time Assignment
BTN	: Button	INDV	: Individual
CAL	: Call	INTRPT	: Interruption
CANCLD	: Canceled	L	: Low
CKT	: Circuit	LCD	: Liquid Crystal Display
CNF	: Confirmation	LN	: Line
CL	: Class	LOOP	: Loop Off-Guard Assignment
CLD	: CO Line Display	LNR/SPD	: Last Number/Speed Dial
CLR	: Clear	M	: Medium
CLS	: Class	MAN	: Manual
CONN	: Connection	MF	: Dual-Tone Multifrequency (DTMF)
DESG	: Designation	MIN	: Minimum
DGT	: Digit	MOH	: Music On Hold
DISP	: Display	MSTR	: Master
DISTM	: Disconnection Recognition Time	NUM	: Number
DIVERT	: Diversion	NT	: Night Mode
DLY	: Delay Signal Time	OUT	: Outgoing
DP	: Dial Pulse	OG TM	: Outgoing Time OUt Assignment
DSS	: Direct Station Selection	OV	: Over
DY	: Day Mode	RNGTONE	: Ringing Tone

Table 1-9 Abbreviations used in Multiline Terminal Displays (Continued)

PAD AT	: PAD Pattern A Transmission Assignment	RT	: Route
PAD AR	: PAD Pattern A Receiving Assignment	RT ADV	: Route Advance Block
PAD BT	: PAD Pattern B Transmission Assignment	RVS	: Reversal
PAD BR	: PAD Pattern B Receiving Assignment	SDT	: Second Dial Tone Assignment
PRE	: Prepause Time Selection	SEND	: Transmission
PBR	: Pushbutton Signal Receiver	SEL	: Selection
PBX	: Private Branch Exchange	SLT	: Single Line Telephone
PRNT	: Print	SPD	: Speed Dial
PTRN	: Pattern	ST	: Start
PV	: Tie Line	TEL	: Telephone
PVT	: Tie Line	TERM	: Terminating
PWRFAIL	: Power Failure	TMR	: Timer
RCV	: Receiving	TMD	: Timed
RCVR	: Receiver	TRNS	: Transfer
RES	: Restriction	TRK	: Trunk
RINGTONE	: Ringing Tone	TRK GP	: Trunk Group
RLY	: Relay	WDSD	: Wink/Delay Signal Detection Timeout