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UNIVERGE

NEC

NEAX 2000 IPS
INTERNET PROTOCOL SERVER

Feature Programming Manual

NWA-008845-001
ISSUE 6.0

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PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
i	1	2	3	4	5			
ii	1	2	3	4	5			
iii	1	2	3	4	5			
iv	1	2	3	4	5			
v	1	2	3	4	5			
vi	1	2	3	4	5			
vii	1	2	3	4	5			
viii	1	2	3	4	5			
1	1	2	3	4	5			
2	1	2	3	4	5			
3	1	2	3	4	5			
4	1	2	3	4	5			
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30	1	2	3	4	5			

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
31	1	2	3	4	5			
32	1	2	3	4	5			
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68	1	2	3	4	5			

ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
69	1	2	3	4	5			
70	1	2	3	4	5			
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PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
107	1	2	3	4	5			
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ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
145	1	2	3	4	5			
146	1	2	3	4	5			
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PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
183	1	2	3	4	5			
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ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
221	1	2	3	4	5			
222	1	2	3	4	5			
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PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
259	1	2	3	4	5			
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ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
297	1	2	3	4	5			
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PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
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ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
373	1	2	3	4	5			
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PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
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ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
449	1	2	3	4	5			
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PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
487	1	2	3	4	5			
488	1	2	3	4	5			
489	1	2	3	4	5			
490	1	2	3	4	5			
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521	1	2	3	4	5			
522	1	2	3	4	5			
523	1	2	3	4	5			
524	1	2	3	4	5			

ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
525	1	2	3	4	5			
526	1	2	3	4	5			
527	1	2	3	4	5			
528	1	2	3	4	5			
529	1	2	3	4	5			
530	1	2	3	4	5			
531	1	2	3	4	5			
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559	1	2	3	4	5			
560	1	2	3	4	5			
561	1	2	3	4	5			
562	1	2	3	4	5			

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
563	1	2	3	4	5			
564	1	2	3	4	5			
565	1	2	3	4	5			
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600	1	2	3	4	5			

ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
601	1	2	3	4	5			
602	1	2	3	4	5			
603	1	2	3	4	5			
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605	1	2	3	4	5			
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629	1	2	3	4	5			
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635	1	2	3	4	5			
636	1	2	3	4	5			
637	1	2	3	4	5			
638	1	2	3	4	5			

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
639	1	2	3	4	5			
640	1	2	3	4	5			
641	1	2	3	4	5			
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673	1	2	3	4	5			
674	1	2	3	4	5			
675	1	2	3	4	5			
676	1	2	3	4	5			

ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
677	1	2	3	4	5			
678	1	2	3	4	5			
679	1	2	3	4	5			
680	1	2	3	4	5			
681	1	2	3	4	5			
682	1	2	3	4	5			
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711	1	2	3	4	5			
712	1	2	3	4	5			
713	1	2	3	4	5			
714	1	2	3	4	5			

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
715	1	2	3	4	5			
716	1	2	3	4	5			
717	1	2	3	4	5			
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750		2	3	4	5			
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752		2	3	4	5			

ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
753		2	3	4	5			
754		2	3	4	5			
755		2	3	4	5			
756		2	3	4	5			
757		2	3	4	5			
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786			3	4	5			
787			3	4	5			
788			3	4	5	6		
789			3	4	5			
790			3	4	5			

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
791			3	4	5			
792			3	4	5			
793			3	4	5			
794			3	4	5			
795			3	4	5			
796			3	4	5			
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816				4	5			
817					5			
818					5	6		
819					5			
820					5			
821					5			
822					5			
823					5			
824					5			
825					5			
826					5			
827					5			
828					5			

ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8
829					5			
830					5			
831					5			
832					5	6		
833					5	6		
834					5			
835					5			
836					5			
837					5			
838					5			
839					5			
840					5			
A1	1	2	3	4	5			
A2	1	2	3	4	5			
A3	1	2	3	4	5			
A4	1	2	3	4	5			
A5	1	2	3	4	5			
A6	1	2	3	4	5			
A7	1	2	3	4	5			
A8	1	2	3	4	5			
A9	1	2	3	4	5			
A10	1	2	3	4	5			
A11	1	2	3	4	5			
A12	1	2	3	4	5			
A13	1	2	3	4	5			
A14	1	2	3	4	5			
A15	1	2	3	4	5			
A16	1	2	3	4	5			
A17	1	2	3	4	5			
A18	1	2	3	4	5			
A19	1	2	3	4	5			
A20	1	2	3	4	5			
B1	1	2	3	4	5			
B2	1	2	3	4	5			

PAGE No.	ISSUE No.							
	1	2	3	4	5	6	7	8

ISSUE 1		ISSUE 2		ISSUE 3		ISSUE 4	
DATE	JUNE, 2005	DATE	DECEMBER, 2005	DATE	JULY, 2006	DATE	NOVEMBER, 2006
ISSUE 5		ISSUE 6		ISSUE 7		ISSUE 8	
DATE	JUNE, 2007	DATE	MARCH, 2012	DATE		DATE	

NEAX 2000 IPS
Feature Programming Manual

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

INTRODUCTION

PURPOSE

This manual explains the feature programming and hardware requirements for each business and hotel service feature in the NEAX 2000 IPS.

OUTLINE OF THIS MANUAL

This manual consists of two chapters and three appendixes. The following paragraphs summarize Chapters 1 and 2, and Appendixes A through B.

CHAPTER 1 BUSINESS FEATURES

This chapter explains the programming procedure and hardware requirements for Business Features in this system.

CHAPTER 2 HOTEL FEATURES

This chapter explains the system outline, system capacity, system specifications, system programming and hardware requirements for the Hotel System.

APPENDIX A TERMINAL KEY ASSIGNMENT

This appendix contains the key number layout of each D^{term}, DESKCON, DSS Console, and Add-On Module.
Refer to this appendix to assign a key function by CM90 or CM97 in Chapter 1 and Chapter 2.

APPENDIX B CHARACTER CODE TABLE

This appendix contains the character code table to set a station name displayed on D^{term} or Attendant Console.

TERMS IN THIS MANUAL

PBX System Designation

PBX system is designated as “PBX” or “system” usually.
When we must draw a clear line between the PBX systems, they are designated as follows.
2000 IPS : NEAX 2000 IPS INTERNET PROTOCOL SERVER
2400 IPX: NEAX 2400 IPX Internet Protocol eXchange
IPS^{DMR} : NEAX IPS^{DMR} INTERNET PROTOCOL SERVER^{DMR}
IPS^{DM} : NEAX IPS^{DM} INTERNET PROTOCOL SERVER^{DM}

Terminal Name

The following IP terminals are designated as “D^{term}IP” usually, unless we need to mention the type of terminal in particular.
D^{term}IP (IP Adapter Type)
D^{term}IP (IP Bundled Type)
D^{term}IP INASET
D^{term}SP20
D^{term}SP30

NOTE: *D^{term}75 (Series E)/D^{term}85 (Series i) terminal can be used as the IP terminal by attaching the IP Adapter (IP Enabled D^{term}). This terminal provides users with all features currently available in D^{term}IP.*

REFERENCE MANUAL

For details of the service feature, operating procedure and the service conditions of the features which are mentioned in this manual, refer to the Business/Hotel/Data Features and Specifications.
For details of the system description of NEAX 2000 IPS system, refer to the System Manual.
For details of the description of each command, refer to the Command Manual.
For the features which are not mentioned in this manual, refer to the individual manuals listed below.

Business/Hotel/Data Features and Specifications:
This contains the Business/Hospitality Data Features and Specifications which explains each service feature, operating procedure, and service conditions.

System Manual:
Contains the system description, hardware installation procedure and the programming procedure for the NEAX 2000 IPS System.

Command Manual:
Contains the Customer Administration Terminal (CAT) operation, command functions, data required for programming the system and the Resident System Program.

AD-8 System Manual:
Contains the hardware installation procedure and the programming procedure for the NEAXMail AD-8 Voice Mail System.

IM-16 System Manual:
Contains the hardware installation procedure and the programming procedure for the NEAXMail IM-16 Voice Mail System.

CCIS System Manual:
Contains the system description, hardware installation procedure, programming procedure and the operation test procedure for the CCIS System.

ISDN System Manual:
Contains the system description, hardware installation procedure, programming procedure and the operation test procedure for the ISDN System.

Maintenance Manual:
Contains the programming procedure for maintenance service features and the recommended troubleshooting procedure.

OAI System Manual:
Contains the system description, hardware installation procedure, programming procedure and troubleshooting procedure for Open Application Interface (OAI).

Q-SIG System Manual:
Contains the system description, hardware installation procedure, and programming procedure for the Q-SIG System.

Remote PIM System Manual:
Contains the system description, hardware installation procedure, and troubleshooting procedure for the TDM based Remote PIM System.

NOTE: *TDM based Remote PIM System is not available from Series 3200 R6.2.*

WCS System Manual:
Contains the system description, hardware installation procedure, programming procedure for the Wireless (WCS) System.

NEAX IPS^{DM} Hardware Installation Guide:
Contains the general information and installation procedure for the NEAX IPS^{DM} (Internet Protocol Server Distributed Model)/NEAX IPS^{DMR} (Internet Protocol Server Distributed Model Remote) System.

HOW TO READ THIS MANUAL

Chapter 1 and Chapter 2 explains the feature programming for each service feature about the following items.

PROGRAMMING
This section explains the programming procedure for each service feature.
The meanings of (1), (2) and marking are as follows.

(1) : 1st data

(2) : 2nd data

◀ : Initial data; With the system data clear command (CM00, CM01), the data with this marking is automatically set for each command.

(INITIAL) : A reset of the MP card is required after data setting.
Press SW1 switch on the MP card.

(AP00 INITIAL) : A reset of the AP00 card is required after data setting.
Set the Make Busy switch to UP and then DOWN.

(CFT INITIAL) : A reset of the CFTC card is required after data setting.
Set the Make Busy switch to UP and then DOWN.

(DTI INITIAL) : A reset of the DTI card is required after data setting.
Set the Make Busy switch to UP and then DOWN.

(CIR INITIAL) : A reset of the CIR card is required after data setting.
Set the Make Busy switch to UP and then DOWN.

(OFF LINE) : Command with this marking can be used only under Off-Line mode of the MP card.
To set Off-Line mode,
(1) Set SW3 on the MP card to “2” or “3”.
(2) Press SW1 on the MP card.

(AP OFF LINE) : Command with this marking can be used only under Off-Line mode of the AP00 card.

HARDWARE REQUIRED
In this section, required hardware for each service feature is listed, except the following:

Single line telephone set and interface card (LC card)
Central Office Trunk card (COT card)
Attendant Console and interface card

For Direct Digital Interface, Message Center Interface (MCI), and Station Message Detail Recording (SMDR), the following sections explain the system for further details.

SYSTEM OUTLINE
DTI*
PLO*
SYSTEM CAPACITY
SYSTEM OPERATION**
TIME SLOT ALLOCATION*
DTI SPECIFICATIONS*
PROGRAMMING SUMMARY***

* : Direct Digital Interface only
** : MCI only
***: SMDR only

AVAILABLE VALUE OF FP/AP NUMBER

For the setting of LEN by CM14, the range of the FP/AP number that must be assigned to the 1st data of CM14 is valid by the software version you use.
Assign the correct FP/AP number to each FP/AP, referring to the tables below.

[For Series 3200 R6.1 software or before]

×: Available –: Not available

FP/AP No. / FP/AP TYPE	00	01-03	04-15	16-19	20-31	32-59	60-63
FP card (PN-CP15)	–	×	–	×	–	–	–
MP built-in FP	×	–	–	–	–	–	–
DAIA/DAID card	–	×	–	×	–	–	–
Virtual FP for D^{term}IP	–	×	–	×	–	–	–
AP card	–	–	×	–	×	–	–
Virtual AP (Virtual IPT)	–	–	×	–	×	–	–

[For Series 3200 R6.2 software]

×: Available –: Not available

FP/AP No. / FP/AP TYPE	00	01-03	04-15	16-19	20-31	32-59	60-63
FP card (PN-CP15)	–	×	–	×	–	–	–
MP built-in FP	×	–	–	–	–	–	–
Virtual FP for D^{term}IP	–	×	×	×	×	–	–
AP card	–	–	×	–	×	–	–
Virtual AP (Virtual IPT)	–	–	×	–	×	–	–

[For Series 3300 software]

×/Δ: Available **NOTE** –: Not available

FP/AP No. / FP/AP TYPE	00	01-03	04-15	16-19	20-31	32-59	60-63
FP card (PN-CP15)	–	×	–	×	–	–	–
MP built-in FP	×	–	–	–	–	–	–
Virtual FP for D^{term}IP	–	×	Δ	×	Δ	Δ	–
AP card	–	–	×	–	×	–	–
Virtual AP (Virtual IPT/ Virtual CSH **[For PHS]**)	–	–	Δ	–	Δ	×	–
Virtual FP for PS Station	–	Δ	–	–	–	–	×

NOTE: *Although FP/AP number marked with "Δ" is available to use, we recommend FP/AP number marked with "×".*

[For Series 3400 software or later]

×/Δ: Available **NOTE 1** –: Not available

FP/AP No. / FP/AP TYPE	00	01-03	04-15	16-19	20-31	32-59	60-63
FP card (PN-CP15)	–	×	–	×	–	–	–
MP built-in FP	×	–	–	–	–	–	–
Virtual FP for D^{term}IP	–	×	Δ	×	Δ	Δ	–
AP card	–	–	×	–	×	–	–
Virtual AP (Virtual IPT/ Virtual CSH for IP-CS **[For PHS]**/Virtual CSH for WLAN) **NOTE 3**	–	–	Δ	–	Δ	×	–
Virtual FP for PS Station/ Virtual FP for WLAN Station **NOTE 3**	–	Δ	–	–	–	× **NOTE 2**	×

NOTE 1: *Although FP/AP number marked with "Δ" is available to use, we recommend FP/AP number marked with "×".*

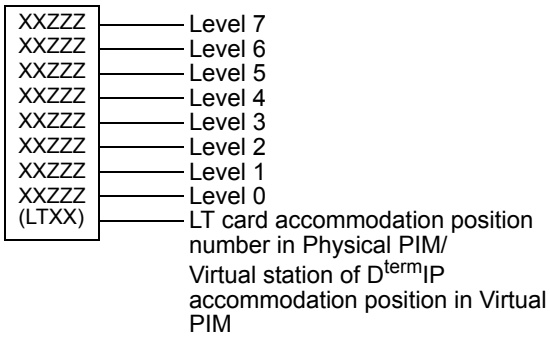
NOTE 2: *We recommend the setting of the FP number (60-63), when providing 256 PS stations/WLAN stations or less and setting of the FP number (56-63), when providing 257 PS stations/WLAN stations or more.*

NOTE 3: *Virtual CSH for WLAN and Virtual FP for WLAN Station are available for Series 3500 software or later.*

LINE EQUIPMENT NUMBER (LEN)

The system allows all the CM10 setting data to be also assigned by CM14 from Series 3200 R6.2. When your system contains Series 3200 R6.2 or later software, we recommend you to assign station number, trunk number and card number by CM14.
This manual explains the feature programming using CM10. For the feature programming using CM14, follow the LEN assignment shown below.

- LEN assignment by CM14



XX : FP Number (00-31)
ZZZ: Port Number of Physical PIM/ Virtual PIM (000-127)
[For Series 3200 R6.2 software or before]

XX : FP Number (00-59)
ZZZ: Port Number of Physical PIM/ Virtual PIM (000-127)
[For Series 3300 software or later]

CONDITIONS ON CARD/TERMINAL NUMBER ASSIGNMENT BY CM14

In the Series 3200 R6.2 or later software, the card/terminal number can be assigned by CM14 same as CM10. But, you must consider the following conditions on the card/terminal number assignment.

(1) Card Number of AMP Trunk (PN-2AMP) <C100-C163>
  (a) The card number should be assigned to the FP No. 00-03 as follows.
  For FP No. 00: C100-C115
  For FP No. 01: C116-C131
  For FP No. 02: C132-C147
  For FP No. 03: C148-C163
  (b) Do not assign the card number to the other FP No. than above (a).
  (c) This data is not effective for a remote site of Remote PIM over IP system.

(2) DSS Console number <E100-E131>
  (a) For the FP No. 00-03, the DSS Console number should be assigned as follows.
  [Series 3400 R9.1 software or before]
  For FP No. 00: E100-E107
  For FP No. 01: E108-E115
  For FP No. 02: E116-E123
  For FP No. 03: E124-E131
  (b) For the FP No. 00-03 of MP built-in FP/FP card of Main Site and MP built-in FP of Remote Site, the DSS Console number (E100-E131) can be assigned without limit as shown above (a).
  [Series 3500 software or later]
  (c) For the other FP No. than above (a), the DSS Console number (E100-E131) can be assigned without limit as shown above (a).
  (d) This data is effective for a remote site of Remote PIM over IP system.
  (e) The same number (the last two digits of the data) should not be used for both DSS Console number (E100-E131) and Add-On Module number (EC00-EC31).

(3) Card Number of PB receiver (PN-8RST) <E201-E215>

(a) The card number should be assigned to the FP No. 00-03 as follows.
For FP No. 00: E201-E203
For FP No. 01: E204-E207
For FP No. 02: E208-E211
For FP No. 03: E212-E215

(b) For the other FP No. than above (a), the card number (E201-E215) can be assigned to without limit as shown above (a).

(c) The card numbers (E200, E216-E230) are used for MP built-in DTMF Receiver. For details, refer to PB (DTMF) RECEIVER NUMBER. ☞ *Page 14*

(4) Card Number of External Equipment Interface (PN-DK00) <E800-E831>

(a) The card number should be assigned to the FP No. 00-03 as follows.
For FP No. 00: E800-E807
For FP No. 01: E808-E815
For FP No. 02: E816-E823
For FP No. 03: E824-E831

(b) Do not assign the card number to the other FP No. than above (a).

(c) This data is not effective for a remote site of Remote PIM over IP system.

(d) Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.

(5) Card Number of External Key Interface (PN-DK00) <E900-E963>

(a) The card number should be assigned to the FP No. 00-03 as follows.
For FP No. 00: E900-E915
For FP No. 01: E916-E931
For FP No. 02: E932-E947
For FP No. 03: E948-E963

(b) Do not assign the card number to the other FP No. than above (a).

(c) This data is not effective for a remote site of Remote PIM over IP system.

(d) Circuit No. 3 of E963 is used for built-in External Key Interface of MP card by setting CM61.

(6) Card Number of Digital Announcement Trunk (PN-2DATA/4DATA) <EB002-EB127>

(a) The card number should be assigned to the FP No. 00-03 as follows.
For FP No. 00: EB002-EB031
For FP No. 01: EB032-EB063
For FP No. 02: EB064-EB095
For FP No. 03: EB096-EB127

(b) Do not assign the card number to the other FP No. than above (a).

(c) This data is not effective for a remote site of Remote PIM over IP system.

(d) The card numbers (EB000 and EB001) are dedicated to built-in Digital Announcement Trunk of MP card.

(7) Add-On Module number <EC00-EC31>

(a) For the FP No. 00-03, the Add-On Module number should be assigned as follows.
For FP No. 00: EC00-EC07
For FP No. 01: EC08-EC15
For FP No. 02: EC16-EC23
For FP No. 03: EC24-EC31

(b) For the other FP No. than above (a), the Add-On Module number (EC00-EC31) can be assigned without limit as shown above (a).

(c) This data is effective for a remote site of Remote PIM over IP system.

(d) The same number (the last two digits of the data) should not be used for both DSS Console number (E100-E131) and Add-On Module number (EC00-EC31).

PB (DTMF) RECEIVER NUMBER

A system with Series 3200 R6.2 software provides the MP built-in PB (DTMF) Receiver for a Remote Site of Remote PIM over IP feature. For the Series 3200 R6.2 or later software, the DTMF Receiver card number is as follows.

- MP built-in DTMF Receiver in Main Site : E200 (This number is also used when a system is not provided Remote PIM over IP feature.)
- 8RST card in Main Site : E201-E215 (This number is also used when a system is not provided Remote PIM over IP feature.)
- MP built-in DTMF Receiver in Remote Site: E216-E230 (E216-E230 matches Remote Site number 01-15)
  [For Series 3200 R6.2 software]
  E216-E245 (E216-E245 matches Remote Site number 01-30)
  [For Series 3300 software or later]

NOTE: *When a system is not provided Remote PIM over IP feature or a system is a Main Site of Remote PIM over IP feature, you can assign maximum four DTMF Receiver card numbers per FP (includes the number for MP built-in DTMF Receiver). For the Remote Site, MP built-in DTMF Receiver can be used per Remote Site.*

For CM45 setting data, DTMF Receiver number in Series 3200 R6.2 or later is as shown below.

- CM45 Y=0 (Make Busy)
  (1) XX Z (DTMF Receiver No.)
  XX: 00-30 (MP Built-in DTMF Receiver/8RST Card No.)
  [For Series 3200 R6.2 software]
  00-45 (MP Built-in DTMF Receiver/8RST Card No.)
  [For Series 3300 software or later]
  Z : 0-3 (Circuit No.)
  (2) 0 : Make busy
  1◀: In service

- CM45 Y=1 (DTMF Receiver for incoming call from Tie Line/DID)
  (1) XX Z (DTMF Receiver No.)
  XX: 00-30 (MP Built-in DTMF Receiver/8RST Card No.)
  [For Series 3200 R6.2 software]
  00-45 (MP Built-in DTMF Receiver/8RST Card No.)
  [For Series 3300 software or later]
  Z : 0-3 (Circuit No.)
  (2) 0 : Only for incoming call from Tie Line/DID
  1◀: For both DTMF station and Tie Line/DID

- CM45 Y=2 (DTMF Receiver for Automated Attendant only)
  (1) XX Z (DTMF Receiver No.)
  XX: 00-30 (MP Built-in DTMF Receiver/8RST Card No.)
  [For Series 3200 R6.2 software]
  00-45 (MP Built-in DTMF Receiver/8RST Card No.)
  [For Series 3300 software or later]
  Z : 0-3 (Circuit No.)
  (2) 0 : Only for Automated Attendant
  1◀: For both DTMF station and Tie Line/DID/Automated Attendant

PRECAUTIONS

System Data Backup

CAUTION

- **If you operate as follows without system data backup after system data setting or service memory setting (registration of the features such as "Call Forwarding" and "Speed Calling [Speed Dialing]" from a station), the data that has been set is invalid.**
  You must execute the system data backup before the following operations.
  -Turning Off the system
  -System Initialization (reset of MP card)
  -Changing the MP card to Off-Line Mode
  -Changing the MP card to On-Line Mode after system data setting under Off-Line Mode
- **You can execute the system data backup by the following two ways.**
  -Executing the system data backup once a day at the time set by CM43 Y=5>00
  (If no data is set, the default setting is 3:00 a.m.)
  -Executing the system data backup from MAT/CAT by CMEC Y=6>0:0
- **Do not reset the MP card while "SYSD" lamp on the MP card is flashing.**

Office Data Conversion

When upgrading the software of the system from Series 3300 or before to Series 3400 or later, the office data conversion by CM00>90 is required. The office data that has been converted and the office data in Series 3400 software or later are incompatible with the software of Series 3300 or before. We recommend to execute the system data backup before the office data conversion.

NOTE: *When upgrading the software in Retrofit system to Series 3400 or later, convert the office data using "Office Data Converter" in the MATWorX CD-ROM and then execute the office data conversion by CM00>90.*

START	DESCRIPTION	DATA
CM00	Execute the office data conversion. **[Series 3200 R6.2 software required]** OFF LINE	(1) 90 (2) 0: Start conversion 1: Always displayed after first data "90" is typed **NOTE 1**

NOTE 1: *When first data "90" is typed, second data "1" is displayed. Also while converting the office data, "1" is displayed.*

NOTE 2: *There is no problem even if the office data conversion is executed repeatedly.*

END

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CHAPTER 1

BUSINESS FEATURES

This chapter explains the programming procedure and hardware requirements for Business Features in this system.
Explanations are given in alphabetical order of the feature names except the features on the next page.

The following features require no programming.

- Alarm Indications
- Attendant Console
  - Attendant Called/Calling Number
  - Attendant Lamp Check
  - Attendant Training Jacks
  - Audible Indication Control
  - Call Processing Indication
  - Time Display
- Attendant Lockout
- Elapsed Call Timer
- Feature Activation from Secondary Extension
- Handsfree Answerback
- Handsfree Dialing and Monitoring
- Non-exclusive Hold
- Night Service
  - Day/Night Mode Change by Attendant Console
- Maintenance Administration Terminal (MAT)
  - Battery Release Control
  - Configuration Report
- Power Failure Transfer
- Proprietary Multiline Terminal
  - Called Station Status Display
  - Handsfree Unit
  - I-Hold/I-Use Indication
  - Microphone Control
- Reserve Power
- Resident System Program
- Voice Mail Private Password

For the following features, refer to the NEAX 2000 IPS manuals mentioned below.

Refer to the System Manual:

- Automatic Program Download for IP Enabled D^{term}/D^{term}IP
- Bandwidth Control
- Call Forwarding-Logout (D^{term}IP)
- D^{term}IP
- FAX over IP
- IP Enabled D^{term}
- Modem over IP
- SNMP
- VoIP

Refer to the D^{term} Assistant User Guide:

- D^{term} Assistant

Refer to the Open Application Interface (OAI) System Manual:

- Open Application Interface (OAI)

Refer to the Q-SIG System Manual:

- Q-SIG Circuit Switched Basic Call-ETSI Version

Refer to the Remote PIM System Manual:

- TDM based Remote PIM

ACCOUNT CODE

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify whether Service Set Tone should be sent after dialing the access code for Account Code entry.	(1) 362 (2) 0 : No Tone 1◀: Service Set Tone
CM12	Assign Service Restriction Class A for Account Code entry to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Account Code in Service Restriction Class A assigned by CM12 Y=02.	• Y=30 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM42	Specify the maximum number of digits for Account Codes with MP. **NOTE:** *If the SMDR message format (2400 IMS Format) is assigned, the maximum number of digits is 10.*	(1) 10 (2) 01-16 : 1 digit-16 digits NONE◀: 10 digits
CM20	Assign an access code for Account Code entry.	• Y=0-3: Numbering Plan Group 0-3 (1) X-XXXX: Access Code (* #) (2) A085
CM90	Assign an Account Code feature access key to a D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0085
END		

HARDWARE REQUIRED

SMDR (AP00 card and cables)

ADD-ON MODULE

PROGRAMMING

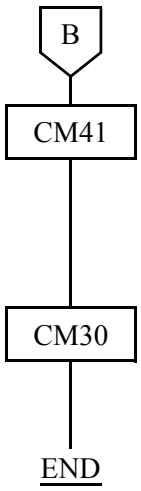
START	DESCRIPTION	DATA
CM10	Assign the Add-On Module number to its associated LEN. **NOTE:** *When the data assignment of both DSS Console and Add-On Module are required, the same number (the last two digits of the data) cannot be used.*	(1) 000-763: LEN (2) EC00-EC31: Add-On Module No. For PIM0/1 : EC00-EC07 For PIM2/3 : EC08-EC15 For PIM4/5 : EC16-EC23 For PIM6/7 : EC24-EC31 **NOTE**
CM14	Assign the Add-On Module number to its associated LEN. **[Series 3200 R6.2 software required]** **NOTE:** *When the data assignment of both DSS Console and Add-On Module are required, the same number (the last two digits of the data) cannot be used.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EC00-EC31 : Add-On Module No. For FP No. 00: EC00-EC07 For FP No. 01: EC08-EC15 For FP No. 02: EC16-EC23 For FP No. 03: EC24-EC31 **NOTE**
CM98	Assign the D^{term} which is associated with the Add-On Module. **NOTE:** *The D^{term} and the Add-On Module must be in the same PIM.*	• Y=0 (1) 00-31: Last two digits of Add-On Module No. EC00-EC31 (2) X-XXXXXXXX: My Line No.
	Assign the Service Restriction Class for the accommodation of Single-Line Telephone to D^{term}. (Assignment for Single-Line Telephone only).	• Y=05 (1) X-XXXXXXXX: Station No. (2) 0: Accommodated
CM90	Assign the station and trunk numbers to the keys on each Add-On Module. **NOTE:** *Single-Line, Virtual Line or My Line can be assigned on Add-On Module.*	• Y=00 (1) My Line No. + [,] + Add-On Module Key No. (30-54) (2) X-XXXXXXXX: Station No. **NOTE** DXXX XXX: 000-255 (Trunk No.)
A		

A

CM90

DESCRIPTION	DATA
Assign the Automatic/Manual/Dial Intercom key to each Add-On Module, if required. For details, refer to INTERCOM.	• Y=00 (1) My Line No. + [,] + Add-On Module Key No. (30-54) (2) A000-A031, A100-A131: Automatic Intercom No. A200-A700, A201-A701...A224-A724: Manual Intercom No. B000-B900, B001-B901...B024-B924: Dial Intercom No.
Assign the Station Speed Dialing to the keys on each Add-On Module, if required. For details, refer to STATION SPEED DIALING.	• Y=00 (1) My Line No. + [,] + Add-On Module Key No. (30-89) (2) F11XX XX: 00-99: Station Speed Dialing 00-99
Specify the tone ringer enabled on call termination for Day mode to each line/trunk key on each Add-On Module, if required.	• Y=01 (1) My Line No. + [,] + Add-On Module Key No. (30-54) (2) 0 : Disabled 1◀: Enabled
Assign the Delayed Ringing feature to each line/trunk key on an Add-On Module, if required. **NOTE:** *Delayed Ringing can be assigned to the first 16 line/trunk keys (Key No. 30-45).*	• Y=03 (1) My Line No. + [,] + Add-On Module Key No. (30-45) **NOTE** (2) 0: Delayed Ringing

B



DESCRIPTION	DATA
Specify the Delayed Ringing timing.	• Y=1 (1) 09 (2) 01-10: 2-20 seconds (2 second increments) If no data is set, the default setting is 10 seconds.
Provide Trunk-Direct Appearances to the trunk number.	• Y=18 (1) 000-255: Trunk No. (2) 0: To provide

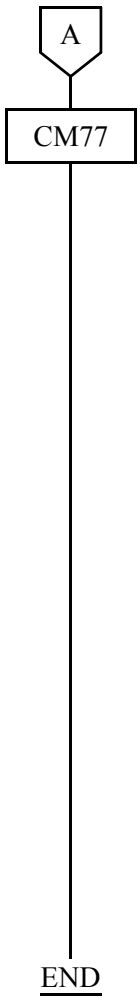
HARDWARE REQUIRED

DSS Console
DLC card

ALPHANUMERIC DISPLAY

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with the Name Display Service.	(1) 255 (2) 1◀: To provide
	Provide station number and name display when an incoming call terminates to a Prime Line and a My Line. (INITIAL)	(1) 335 (2) 0 : Station No. and name display only when incoming call terminates to Prime Line 1◀: Station No. and name display when incoming call terminates to Prime Line or My line
CM20	Assign the access code for Name Display.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (62) (2) A110 See NAME DISPLAY REGISTRATION FROM D^{term}. ☞ *Page 53*
CM08	Specify the time to go back to Date and Time display after the call answered.	(1) 120 (2) 0 : 10 seconds later 1◀: 6 seconds later
	Specify the duration to display the name.	(1) 121 (2) 0 : Until call finished 1◀: As per CM08>120
	Specify the duration of displaying the name when the incoming call is answered/the select key for Calling Number Display and Calling Name Display or CID key is pressed. **[Series 3300 software required]**	(1) 537 (2) 0 : Until call is finished/key is pressed again 1◀: 6 seconds
	Specify the duration of displaying the destination information when the outgoing call is answered by the destination via CCIS/ISDN. **[Series 3300 software required]**	(1) 538 (2) 0 : Until call is finished 1◀: 6 seconds
CM35	Assign a trunk name number to each trunk route.	• Y=03 (1) 00-63: Trunk Route No. (2) 00-14: Trunk Name No. 00-14 15◀ : Kind of trunk route assigned by CM35 Y=00 is displayed 16-63: Trunk Name No. 16-63
A		



DESCRIPTION	DATA
Enter the desired station user's name to each station number by CM77 Y=0 or CM77 Y=1.	• Y=0 By Character Code (1) X-XXXXXXXX: Station No. (2) Character Code 20-7F (Maximum 32 digits) See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=1 By Character (1) X-XXXXXXXX: Station No. (2) A-Z, 0-9: Character (Maximum 16 characters)
Assign the desired trunk name to each trunk route by CM77 Y=2 or CM77 Y=3.	• Y=2 By Character Code (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) Character Code 20-7F (Maximum 8 digits) See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=3 By Character (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) A-Z, 0-9: Character (Maximum 4 characters)

NOTE 1: *The maximum number of stations that can be provided with the user's name display is 512. The maximum number of characters per name is eight, including spaces. The Maintenance Administration Terminal (MAT) or Customer Administration Terminal (CAT) can be used to register or change a name. A D^{term} can register or change the name assignment of that individual D^{term}.*

NOTE 2: *User names can be assigned to stations that do not have an LCD.*

NOTE 3: *The trunk name display is provided on a trunk-route basis. The maximum amount of characters in the trunk name display is four. The maximum number of trunk routes assignable is 16. The MAT or CAT can be used to register or change a trunk name display.*

NOTE 4: *There are two ways to change a name that is currently programmed. (1) by overwriting with a new name, or (2) by inserting a blank space as the first character to cancel the existing name.*

To display the Caller ID for each D^{term} before answer when an incoming call is terminated with TAS, do the following programming.

[Series 3600 software required]

NOTE: *This programming is effective only when CM76 Y=01-04 is set to D03 (Trunk Line [Direct] Appearance + TAS)/D13 (TAS), or CM30 Y=02/04/40/41 is set to 03 (Trunk Line [Direct] Appearance + TAS)/13 (TAS).*

START	DESCRIPTION	DATA
CM65	Provide Caller ID Display for each tenant when an incoming call is terminated to a D^{term} with TAS.	• Y=42 (1) 00-63: Tenant No. (2) 0 : To provide 1◀: Not provided
CM57	Specify the My Line number of D^{term} that displays the caller ID. **NOTE:** *The number of stations that can display the caller ID on LCD is maximum 8 per tenant.* *Set the allocation number to the stations that displays the caller ID.*	• Y=30 (1) XX YY XX: 00-63: Tenant No. YY: 00-07: Allocation No. (2) X-XXXXXXXX: My Line No.
CM13	Provide Caller ID Display for the my line assigned by CM57 Y=30.	• Y=54 (1) X-XXXXXXXX: My Line No. (2) 0 : To provide 1◀: Not provided
CM90	Assign the TAS Answer keys to the D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F40XX XX: 00-63: Tenant No. assigned by CM57 Y=30
END		

To display the Caller ID for each D^{term} before answer when an incoming call is terminated to a sub line, do the following programming.

[Series 3600 software required]

START	DESCRIPTION	DATA
CM65	Provide Caller ID Display for each tenant when an incoming call is terminated to a sub line of D^{term}.	• Y=43 (1) 00-63: Tenant No. (2) 0 : To provide 1◀: Not provided
CM57	Specify the My Line number of D^{term} that displays the caller ID. **NOTE:** *The number of stations that can display the caller ID on LCD is maximum 8 per tenant.* *Assign the allocation number to the stations that displays the caller ID.*	• Y=30 (1) XX YY XX: 00-63: Tenant No. YY: 00-07: Allocation No. (2) X-XXXXXXXX: My Line No.
CM13	Provide Caller ID Display for the my line assigned by CM57 Y=30.	• Y=54 (1) X-XXXXXXXX: My Line No. (2) 0 : To provide 1◀: Not provided
	Provide Caller ID Display for the stations of SLT/sub line of D^{term}/Virtual line/Virtual station for PS that are accommodated to the D^{term} multiline as a sub line. **NOTE:** *When terminating the call to the stations of SLT/sub line of D^{term}/Virtual line/Virtual station for PS, the caller ID is displayed on the LCD of the D^{term} assigned by CM57 Y=30.*	• Y=55 (1) X-XXXXXXXX: Station No. (2) 0 : To provide 1◀: Not provided
END		

ANALOG PORT ADAPTER

PROGRAMMING

To assign the Single Port Mode:

START	DESCRIPTION	DATA
CM13	Provide the Analog Port Adapter to the required stations.	• Y=32 (1) X-XXXXXXXX: My Line No. (2) 0: To connect
	Assign the Single Port Mode to the required stations. (INITIAL)	• Y=33 (1) X-XXXXXXXX: My Line No. (2) 1◀: Single port mode
	Specify whether a ringing signal is sent to the analog terminal.	• Y=35 (1) X-XXXXXXXX: My Line No. (2) 0 : Not sent 1◀: To send
END		

To assign the Dual Port Mode:

(1) Data Assignment for D^{term} accommodates the Analog Port Adapter

START	DESCRIPTION	DATA
CM13	Provide the Analog Port Adapter to the required stations.	• Y=32 (1) X-XXXXXXXX: My Line No. (2) 0: To connect
	Assign the Dual Port Mode to the required stations. (INITIAL)	• Y=33 (1) X-XXXXXXXX: My Line No. (2) 0: Dual port mode
END		

(2) Data Assignment for Analog Terminal connected to the Analog Port Adapter

START

DESCRIPTION

DATA

CM10

Assign an analog terminal station number to the required LEN.

(1) 000-763: LEN
(2) FX-FXXXXXXXX: Analog Terminal Station No.

NOTE: *The analog terminal station number must be assigned to the following LEN.*
Analog Terminal LEN=D^{term} LEN + 8.

For example, when the DLC card is mounted on LT01 slot;
For D^{term} LEN: 008-015
*For Analog Terminal LEN: 016-023**
**LT02 slot must be vacant.*

Assignment Example:
CM10 LEN 000=F 200 for D^{term} Primary Extension
CM10 LEN 008=F 300 for Analog Terminal
If level 0 of the LEN is used for the D^{term}, the adjacent level 0 must be used.

CM14

Assign an analog terminal station number to the required LEN.
[Series 3200 R6.2 software required]

(1) XX ZZZ: LEN
XX : 00-59: FP No.
ZZZ: 000-127: Port No.
(2) FX-FXXXXXXXX: Analog Terminal Station No.

NOTE: *The analog terminal station number must be assigned to the following LEN.*
Analog Terminal LEN=D^{term} LEN + 8.

For example, when the DLC card is mounted on LT01 slot;
For D^{term} LEN: 00008-00015
*For Analog Terminal LEN: 00016-00023**
**LT02 slot must be vacant.*

Assignment Example:
CM14 LEN 00000=F 200 for D^{term} Primary Extension
CM14 LEN 00008=F 300 for Analog Terminal
If level 0 of the LEN is used for the D^{term}, the adjacent level 0 must be used.

A

	DESCRIPTION	DATA
A		
CM90	Assign a key for analog terminal.	• Y=00 (1) Analog Terminal Station No. + [,] + Key No. (2) X-XXXXXXXXXX: Analog Terminal Station No. assigned by CM10/CM14
CM93	Assign an analog terminal station number as Prime Line.	(1) X-XXXXXXXX: Analog Terminal Station No. (2) X-XXXXXXXX: Analog Terminal Station No.
CM13	Provide the Analog Port Adapter to the required stations.	• Y=34 (1) X-XXXXXXXX: Analog Terminal Station No. (2) 0: To connect
	Specify whether a ringing signal is sent to the analog terminal.	• Y=35 (1) X-XXXXXXXX: My Line No. (2) 0 : Not sent 1◀: To send
	Specify the PAD control of the analog terminal.	• Y=09 (1) X-XXXXXXXX: Analog Terminal Station No. (2) 0 : Without PAD 1◀: With PAD 6dB
END		

HARDWARE REQUIRED

Analog Port Adapter

ANNOUNCEMENT SERVICE

PROGRAMMING

To access the Digital Announcement Trunk (DAT card) from a station or C.O./Tie Line party:

START	DESCRIPTION	DATA
CM08	Specify the Multiple Connections of the Digital Announcement Trunk (DAT card) on Announcement Service.	(1) 124 (2) 0 : Available 1◀: Not available (Single Connection)
CM10	Assign a Digital Announcement Trunk number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM12	Assign Service Restriction Class A for Announcement Service to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
A		

A

	DESCRIPTION	DATA
CM15	Allow Announcement Service in Service Restriction Class A assigned by CM12 Y=02.	• Y=34 Announcement Service Group 0 (Replay) • Y=35 Announcement Service Group 1 (Replay) • Y=36 Announcement Service Group 2 (Replay) • Y=37 Announcement Service Group 3 (Replay) • Y=38 Announcement Service Group 4 (Replay) • Y=39 Announcement Service Group 0-4 (Record) (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign access codes for Announcement Service.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A103: Announcement Service Group 0-4 (Record) A104: Announcement Service Group 0 (Replay) A105: Announcement Service Group 1 (Replay) A106: Announcement Service Group 2 (Replay) A107: Announcement Service Group 3 (Replay) A108: Announcement Service Group 4 (Replay) A109: Announcement Service Group 0-4 (Delete)
CM41	When Multiple Connections are provided (CM08>124=0), specify the duration of message replay for the Announcement Service.	• Y=0 (1) 53 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 60-64 seconds.

B

	DESCRIPTION	DATA
B		
CM49	Assign the function for each Digital Announcement Trunk card.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk No. (EB002-EB127) (2) 04X Z X: 0-4: Group No. Z: 0-9: Message No.
CM35	To provide a C.O./Tie Line party with this service, assign the Announcement Service Group 0-4 to the required trunk routes.	• Y=69 Announcement Service Group 0 • Y=70 Announcement Service Group 1 • Y=71 Announcement Service Group 2 • Y=72 Announcement Service Group 3 • Y=73 Announcement Service Group 4 (1) 00-63: Trunk Route No. (2) 1◀: Allow
END		

NOTE 1: *A maximum of five different announcements can be accessed. There is a limit of 10 Digital Announcement Trunk Circuit for each of the five different announcements. When recording an announcement, each Digital Announcement Trunk Circuit must be recorded individually.*

NOTE 2: *Each time a station is connected to a Digital Announcement Trunk Circuit, the message will be repeated three times. The station will then be disconnected.*

NOTE 3: *For the single connection of a Digital Announcement Trunk Circuit, the duration of an announcement is limited to 120 seconds.*

NOTE 4: *For the multi-connection of a Digital Announcement Trunk Circuit, the duration of replay for an announcement is programmable from 4 to 396 seconds.*

To provide a voice message when an incoming C.O. line/Tie line call has been transferred and encounters a busy or no answer condition:

START	DESCRIPTION	DATA
CM10	Assign a Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk Circuit number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk Circuit number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM12	Assign Service Restriction Class A for Digital Announcement Trunk Access (Record/Replay/Delete).	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Digital Announcement Trunk Access in Service Restriction Class A assigned by CM12 Y=02.	• Y=33 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM65	Assign the feature for a voice message connection to a transferred trunk when the transferred destination does not answer or the transferred destination is busy to the required tenant.	• Y=50 No Answer (1) 00-63: Tenant No. (2) 0 • Y=51 Busy (1) 00-63: Tenant No. (2) 0
A		

	DESCRIPTION	DATA
A		
CM49	Assign the function for each Digital Announcement Trunk card.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk No. (EB002-EB127) (2) 06XX: No Answer XX : 00-63: Message No. 07XX: Busy XX : 00-63: Message No. • Y=06 No Answer • Y=07 Busy (1) XX: 00-63: Tenant No. of transferring station (2) XX: 00-63: Message No. assigned by CM49 Y=00
CM20	To record, replay and delete a message, assign the respective Digital Announcement Trunk access code.	• Y=0-3 Number Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete
END		

NOTE: *Announcement Service can be used to provide a voice message when an incoming C.O. line/Tie line call has been transferred and encounters a busy or no answer condition. After the voice message is given, normal call processing continues.*

- *This application can be programmed on a tenant basis.*
- *Only one (1) message of up to the following seconds can be recorded on an individual Digital Announcement Trunk Circuit.*
  Built-in DAT on MP: 120 seconds
  4DAT card: 120 seconds
- *In this application, a minimum of two digital announcement Trunk Circuits is needed, one for busy condition, and one for no answer.*
- *More than one Digital Announcement Trunk Circuit can be used, depending on traffic conditions.*
- *System programming can be set to, wait until circuits become free or immediately follow pre-programmed normal call handling, if a busy condition is encountered.*
- *Digital Announcement Trunk Circuits can be shared among tenants.*
- *This feature does not function on Attendant transferred calls.*

To provide a voice message when an incoming DID line/Tie line call has been terminated to a station and encounters a busy or no answer condition:

START	DESCRIPTION	DATA
CM10	Assign a Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM12	Assign Service Restriction Class A for Digital Announcement Trunk Access (Record/Replay/Delete).	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Digital Announcement Trunk Access in Service Restriction Class A assigned by CM12 Y=02.	• Y=33 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM41	Specify the transferred timing when an incoming DID Line/Tie Line call encounters a no answer condition.	• Y=0 (1) 01 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
A		

	DESCRIPTION	DATA
A		
CM49	Assign the function for each Digital Announcement Trunk card.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk No. (EB002-EB127) (2) 0D00: No Answer 0E00: Busy
CM51	Assign the Digital Announcement Trunk as the destination of the DID call on each tenant.	• Y=00 No Answer • Y=03 Busy (1) 00-63: Tenant No. (2) EB000-EB127: Digital Announcement Trunk No.
	Assign the Digital Announcement Trunk as the destination of the Tie Line call on each tenant.	• Y=01 No Answer • Y=04 Busy (1) 00-63: Tenant No. (2) EB000-EB127: Digital Announcement Trunk No.
CM20	To record, replay and delete a message, assign the respective Digital Announcement Trunk access code.	• Y=0-3 Number Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete
END		

NOTE: *Announcement Service can be used to provide a voice message when an incoming DID line/Tie line call has been terminated to a station and encounters a busy or no answer condition. After the voice message is given, normal call processing continues.*

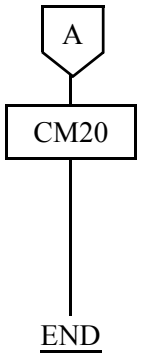
- *This application can be programmed on a tenant basis.*
- *Only one (1) message of up to the following seconds can be recorded on an individual Digital Announcement Trunk Circuit.*

  Built-in DAT on MP: 120 seconds

  4DAT card: 120 seconds

To provide an Internal Recorded Message from a Digital Announcement Trunk (DAT card) in place of Music On Hold:

START	DESCRIPTION	DATA
CM10	Assign a Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM48	Define the type of call to be provided with Hold Message.	• Y=0 (1) 00: C.O. Line Call 01: Tie Line Call 02: Station (2) 0500: Hold Message
CM49	Assign the function of the Digital Announcement Trunk to Hold Message Service.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk No. (EB002-EB127) assigned by CM10/CM14 (2) 05XX: Hold Message Service XX : 00-63: Message No. • Y=05 (1) 00-63: Tenant No. (2) 00-63: Message No. assigned by CM49 Y=00
A		



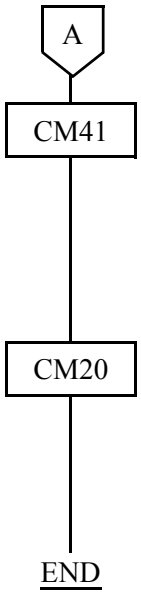
DESCRIPTION	DATA
To record, replay, or delete a message, assign the respective Digital Announcement Trunk access code.	• Y=0-3 Number Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete

NOTE: *A voice message in place of Music-On-Hold can be provided when a call has been placed on hold.*

- *Different messages can be programmed on a tenant basis.*
- *Different messages can be programmed, depending on the type of line (C.O. line, Tie line or station) on Hold.*
- *More than one connection can be made to a Digital Announcement Trunk Circuit. Only the first connection can be assured of hearing the message from the beginning.*
- *Announcement will be repeated until the call is removed from hold.*

To provide the Night Announcement by Digital Announcement Trunk (DAT card):

START	DESCRIPTION	DATA
CM10	Assign each Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign each Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM30	Assign the Digital Announcement Trunk number to each incoming trunk.	• Y=03 (1) 000-255: Trunk No. (2) 04: Direct-In Termination • Y=05 (1) 000-255: Trunk No. (2) EB000-EB127: Digital Announcement Trunk No. assigned by CM10/CM14
CM49	Assign the function of the Digital Announcement Trunk to Night Announcement.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk No. (EB002-EB127) (2) 03000: Night Announcement Service
A		



DESCRIPTION	DATA
Specify the duration of an Announcement.	• Y=0 (1) 45 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 60-64 seconds.
To record, replay, or delete a message, assign the respective Digital Announcement Trunk access code.	• Y=0-3 (Numbering Plan Group 0-3) (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete

NOTE: *A voice message can be sent to incoming C.O. lines during Night Mode.*

- *Different messages can be programmed on each C.O. line.*
- *The voice message can be programmed for Day/Night.*
- *More than one connection can be made to a Digital Announcement Trunk Circuit. Only the first connection can be assured of hearing the message from the beginning.*
- *Announcements may be programmed to be repeated from 4 to 120 seconds in four-second increments.*

HARDWARE REQUIRED

DAT card or MP card (built-in DAT)

ANSWER KEY

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Answer Key to the required D^{term}.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Answer Key in Service Restriction Class B assigned by CM12 Y=02.	• Y=72 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 0: Allow
END		

NOTE: *An ANSWER key is initially assigned on each D^{term}.*

HARDWARE REQUIRED

D^{term} and DLC card

ATTENDANT ASSISTED CALLING

PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the Access code for an operator call.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (0) (2) 800
CM60	Allocate the ATTCON Group number to each DESKCON. (INITIAL)	• Y=00 (1) 0-7: ATTCON No. assigned by CM10/ CM14 (2) 0-3: ATTCON Group No.
	Assign the Master ATTCON within the ATTCON Group. (INITIAL)	• Y=01 (1) 0-7: ATTCON No. (2) 0 : Master ATT 1◀: Not Master ATT
CM62	Specify the tenants to be handled by each ATT Group. (INITIAL)	• Y=0-3 ATTCON Group No. 0-3 assigned by CM60 Y=00 (1) 00-63: Tenant No. (2) 0: To be handled
CM08	Specify the Attendant access (ATTCON No. 0) capability provided from the stations belonging to a tenant with no Attendant Console.	(1) 142 (2) 0 : Allowed 1◀: Restricted
	Provide the system with Passing Dial Tone.	(1) 048 (2) 1◀: Available
	Provide the system with Attendant Night Transfer, if required.	(1) 018 (2) 0 : Not available 1◀: Available
	Specify the Individual Attendant access capability provided from a station belonging to a different tenant.	(1) 143 (2) 0 : Restricted 1◀: Allowed
END		

ATTENDANT CAMP-ON

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify Attendant Camp-On as a type of Camp-On to activate from the Attendant Console. **[Series 3400 software required]**	(1) 542 (2) 1◀: Attendant Camp-On
	Specify the Camp-On Tone sent to busy station	(1) 068 (2) 0 : Camp-on Tone is sent out only once. 1◀: Camp-on Tone is repeated at an interval of 4 seconds.
CM41	Specify the recall timing of Camp-On.	• Y=0 (1) 00 (2) 01-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) If no data is set, the default setting is 31.2-33.6 seconds.
END		

To reenter a Camped-On trunk from an Attendant before Automatic Recall:

START	DESCRIPTION	DATA
CM20	Assign the access code for Call Pickup-Direct.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A021: Call Pickup-Direct
END		

To display the busy station number and name on an Attendant Console when reentering a Camped-On trunk by pressing the loop key:

START	DESCRIPTION	DATA
CM08	Provide the Attendant Console with the busy station number/name display when reentering a Camped-On trunk.	(1) 441 (2) 0 : Available 1◀: Not available
END		

ATTENDANT CONSOLE

SN716 DESKCON

PROGRAMMING

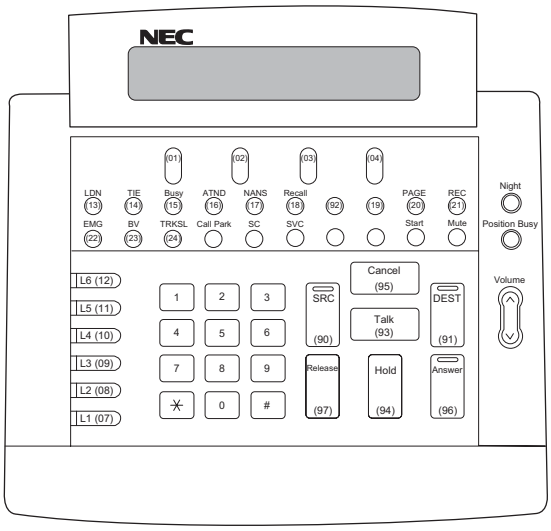
START	DESCRIPTION	DATA
CM10	Assign the card number of the interface circuit for the DESKCON to its associated LEN.	(1) 000-763: LEN (2) E000-E007: ATTCON No.
CM14	Assign the card number of the interface circuit for the DESKCON to its associated LEN. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) E000-E007: ATTCON No.
CM30	Set the terminating system for the incoming calls to DESKCON.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. (2) 14: Attendant Console
CM90	Assign the required Attendant Call Selection keys and Function keys to each DESKCON, according to the key label. To assign Multi-Function Key, refer to MULTI-FUNCTION KEY. ☞ *Page 73*	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6000-F6067: Type of Calls to be assigned F6100-F6245: Functions to be assigned
A		

A

CM90

DESCRIPTION

DATA



Key No.	Data	Description (Key Label)	Default Data
13	F6000	C.O. Incoming 0 (LDN)	NONE
14	F6040	Tie Line Incoming 0 (TIE)	NONE
15	F6064	Call Forwarding-Busy Line (Busy)	NONE
16	F6060	Operator Call (ATND)	F6061 (Recall)
17	F6063	Call Forwarding-No Answer (NANS)	F6060 (Operator call)
18	F6061	Recall (Recall)	F6000 (C.O. Incoming 0)
90	F6200	Source (SRC)	F6200 (Source)
91	F6201	Destination (DEST)	F6201 (Destination)
93	F6203	Talk (Talk)	NONE
94	F6204	Hold (Hold)	F6204 (Hold)
95	F6202	Cancel (Cancel)	F6202 (Cancel)
96		Answer (Answer)	
97		Release (Release)	

NOTE: *When the DESKCON is used to set hotel features, the Reset key should be assigned to one of the feature keys (i.e key 21) in the Idle state mode.*

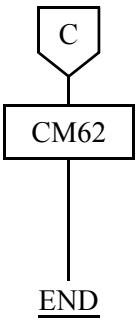
B

B

CM60

C

DESCRIPTION	DATA
Specify the kind of the Attendant Console. (INITIAL)	• Y=22 (1) 0-7: ATTCON No. (2) 0 : DESKCON 1◀: ATTCON
Allocate the ATT Group number to each DESKCON. (INITIAL)	• Y=00 (1) 0-7: ATTCON No. (2) 0-3: ATT GROUP 0-3
Specify the Master DESKCON within the ATT Group assigned by CM60 Y=00. (INITIAL)	• Y=01 (1) 0-7: ATTCON No. (2) 0 : Master ATT 1◀: Not Master ATT
When the Master DESKCON is specified by CM60 Y=01, make the NT Switch in effective by the Day/Night Mode Change key. (INITIAL)	• Y=06 (1) 0-7: ATTCON No. (2) 0: Effective
Assign the password for Attendant Console Lockout.	• Y=30 (1) 0 (2) X-X...X: Password (Maximum 8 digits) X : 0-9, A (*), B (#) If no data is set, the default setting is NONE. In this case, the password is set to “12345678”.
When providing 2nd Ringing feature on the DESKCON, make Off-Hook Ringing effective.	• Y=16 (1) 0-7: ATTCON No. (2) 0: Effective
Allow or restrict the system to keep the volume level changed by the volume button on DESKCON, after the call is finished.	• Y=23 (1) 0-7: ATTCON No. (2) 0 : Allow 1◀: Restricted



DESCRIPTION	DATA
Specify the tenants to be handled by each ATT Group. (INITIAL)	• Y=0-3 (1) 00-63: Tenant No. (2) 0 : To handle 1◀: Not handled

ATTENDANT CALLED/CALLING NAME DISPLAY

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with the Name Display Service.	(1) 255 (2) 1◀: To provide
	Specify the time to go back to Data and Time display after the call answered.	(1) 120 (2) 0 : 10 seconds later 1◀: 6 seconds later
	Specify the duration to display the name.	(1) 121 (2) 0 : Until call finished 1◀: As per CM08>120
	Specify the duration of displaying the name when the incoming call is answered/the select key for Calling Number Display and Calling Name Display or CID key is pressed. **[Series 3300 software required]**	(1) 537 (2) 0 : Until call is finished/key is pressed again 1◀: 6 seconds
	Specify the duration of displaying the destination information when the outgoing call is answered by the destination via CCIS/ISDN. **[Series 3300 software required]**	(1) 538 (2) 0 : Until call finished 1◀: 6 seconds
CM20	Assign the access code for Name Display, used from individual stations.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (62) (2) A110 See NAME DISPLAY REGISTRATION FROM D^{term}. ☞ *Page 53*
CM35	Assign a trunk name number to each trunk route.	• Y=03 (1) 00-63: Trunk Route No. (2) 00-14: Trunk Name No. 00-14 15◀ : Kind of trunk route assigned by CM35 Y=00 is displayed 16-63: Trunk Name No. 16-63
A		

A

CM77

END

DESCRIPTION	DATA
Assign the desired station user name to each station number by CM77 Y=0 or Y=1.	• Y=0 By Character Code (1) X-XXXXXXXX: Station No. (2) Character Code 20-7F (Maximum 32 digits) See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=1 By Character (1) X-XXXXXXXX: Station No. (2) A-Z, 0-9: Character (Maximum 16 characters)
Assign the desired trunk name to each trunk route by CM77 Y=2 or Y=3.	• Y=2 By Character Code (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) Character Code 20-7F (Maximum 8 digits) See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=3 By Character (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) A-Z, 0-9: Character (Maximum 4 characters)

NAME DISPLAY REGISTRATION FROM D^{term}

- You can configure the station number from the D^{term} to which the station number belongs.
- Register the characters from MAT/CAT to SLT, D^{term} without LCD and Trunk.
- The characters are specified by the number of pressing the keys (0-9, *, #).
- Refer to "Character Table" on next page.

Example: To register "A", press [2] key twice.
By pressing same key 11 times, the character returns to the one pressed once.

- To register characters, press [Hold] key after each character registration.
- To switch between alphabet upper case (A-Z) and alphabet lower case (a-z), press [Recall] key.
- To delete the data, overwrite by blank.
- The following is the example to register "john":

(1)	[LNR/SPD] (DT receiving)	
(2)	Register the access code specified for Name Display (SPDT receiving).	
(3)	[5] [5] [Hold]	j
(4)	[6] [6] [6] [6] [Hold]	o
(5)	[4] [4] [4] [Hold]	h
(6)	[6] [6] [6] [Hold]	n
(7)	[LNR/SPD]	

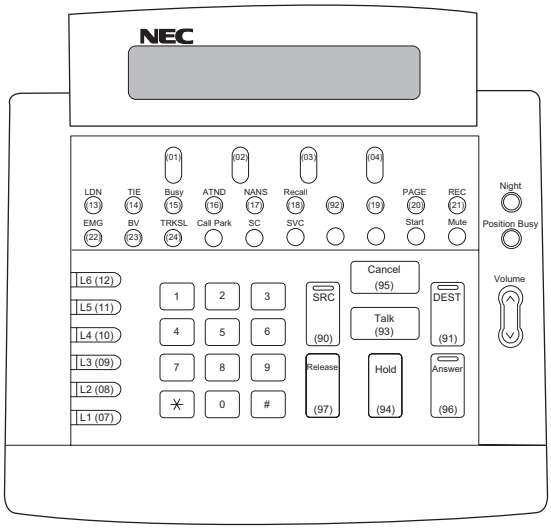
Character Table

KEY / NUMBER OF TIMES	0	1	2	3	4	5	6	7	8	9	*	#
1	0	1	2	3	4	5	6	7	8	9	*	#
2		·	A	D	G	J	M	P	T	W	*	#
3		·	B	E	H	K	N	Q	U	X	*	#
4		·	C	F	I	L	O	R	V	Y	*	#
5		·						S		Z	*	#
6												
7												
8												-
9												!
10												?

ATTENDANT CALL SELECTION

PROGRAMMING

START	DESCRIPTION	DATA
CM35	Specify the ATT call Selection key to which incoming calls from each trunk route terminate.	• Y=15 (1) 00-15: Trunk Route No. (2) ATT Call Selection Key: 00-07: C.O. Incoming Call 0-7 10-17: FX Incoming Call 0-7 20-27: WATS Incoming Call 0-7 30-37: CCSA Incoming Call 0-7 40-47: Tie Line Incoming Call 0-7
CM90	Assign the ATT Call Selection Keys required according to the key label.	• Y=00 (1) ATTCON No. (E000-E007) + [›] + Key No. (2) F60XX XX: 00-07 (C.O. Incoming Call 0-7) 10-17 (FX Incoming Call 0-7) 20-27 (WATS Incoming Call 0-7) 30-37 (CCSA Incoming Call 0-7) 40-47 (Tie Line Incoming Call 0-7) 50-53 (Special Operator Call 0-3) 54 (Priority Call 0) 55 (Priority Call 1) 56 (Emergency Call) 60 (Operator Call) 61 (Recall) 62 (Serial Call) 63 (Call Forwarding-No Answer) 64 (Call Forwarding-Busy Line) 65 (Call Forwarding-Intercept) 66 (Off Hook Alarm) 67 (Interposition Calling/Transfer)



Key No.	Data	Description (Key Label)	Default Data
13	F6000	C.O. Incoming 0 (LDN)	NONE
16	F6060	Operator Call (ATND)	F6061 (Recall)
18	F6061	Recall (Recall)	F6000 (C.O. Incoming 0)

END

ATTENDANT DO NOT DISTURB SETUP AND CANCEL

PROGRAMMING

START	DESCRIPTION	DATA
CM13	Assign Do Not Disturb-System to the required stations.	• Y=00 (1) X-XXXXXXXX: Station No. (2) 0: To provide
CM90	Assign Do Not Disturb and Do Not Disturb Override function keys to each DESKCON, if needed. **NOTE:** *By resident system program, the Multi-Function keys are programmed to provide a Do Not Disturb Override key when the attendant calls a station in Do Not Disturb.*	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6102: Do Not Disturb F6108: Do Not Disturb Override F6104: Reset
END		

ATTENDANT INTERPOSITION CALLING/TRANSFER

PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the access code for Interposition Transfer.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A095
CM90	Assign the Attendant Call Selection Key for this feature on the DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [›] + Key No. (2) F6067: Attendant Interposition Calling/ Transfer (Transferred ATTENDANT CONSOLE Answer key/ lamp)
CM08	Specify the Inter-Position Transferred call to another tenant's Attendant Console. If the data is set to 1, a call from any station can be transferred to another Attendant Console regardless of Tenant Allocation by CM62.	(1) 143 (2) 0 : Restricted 1◀: Allowed
END		

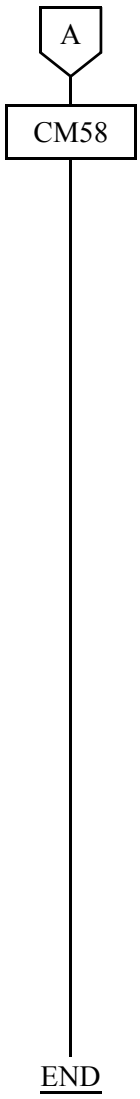
ATTENDANT LISTED DIRECTORY NUMBER

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with diversion display.	(1) 204 (2) 0: Available
CM35	Specify the Incoming Call Identification (ICI) key to which each LDN call or Tie Line call from each trunk route will terminate.	• Y=15 (1) 00-63: Trunk Route No. (2) 00-07: C.O. Incoming Call 0-7 40-47: Tie Line Incoming Call 0-7
CM90	Assign the required number of ICI key on the DESKCON.	• Y=00 (1) ATTCON No. + , + Key No. (2) F60XX F6000-F6007: C.O. Incoming Call 0-7 F6040-F6047: Tie Line Incoming Call 0-7
CM50	Assign the indialed number to each LDN key or Tie Line key assigned by CM90. The indialed number should be different from any numbers assigned by CM10/CM14 and CM11.	• Y=01 For DID (1) 0 : Effective data in CM35 Y=15 1-8: LDN Key 0-7 assigned by CM90 (2) X-XXXX: Indialed No. • Y=02 For Tie Line (1) 0 : Effective data in CM35 Y=15 1-8: Tie Line Key 0-7 assigned by CM90 (2) X-XXXX: Indialed No.
END		

To provide the LDN Diversion feature, the following programming is also required.

START	DESCRIPTION	DATA
CM08	Provide the system with the LDN Diversion feature.	(1) 205 (2) 0: Available
CM58	Assign the data for LDN Diversion to each indialed number assigned by CM50 Y=01/02. **NOTE:** *A call is diverted to LDN0-7/TIE0-7 keys as specified by CM58 Y=02-07, even if CM50 Y=01/02>1-8 has been set.*	• Y=00 Tenant No. of LDN (1) 00 : Effective data in CM35 Y=15 01-08: LDN Key 0-7 assigned by CM50 Y=01 10 : Effective data in CM35 Y=15 11-18: Tie Line Key 0-7 assigned by CM50 Y=02 (2) 00-63: Tenant No. • Y=01 TAS Group No. (1) Same as CM58 Y=00 (2) 00-63: TAS Group No. assigned by CM44>13 • Y=02 Day Mode Destination of LDN (1) Same as CM58 Y=00 (2) 00-07: LDN/TIE key 0-7 08 : To TAS 09 : To the station/outside party assigned by CM58 Y=08 • Y=03 Night Mode Destination of LDN (1) Same as CM58 Y=00 (2) 00-07: LDN/TIE key 0-7 08 : To TAS 09 : To the station/outside party assigned by CM58 Y=09 • Y=04 Day Mode diversion for busy destination station (1) Same as CM58 Y=00 (2) 00: To Attendant Console (BUSY key) 08: To TAS 09: Camped on
A		



DESCRIPTION	DATA
	• Y=05 Night Mode diversion for busy destination station (1) Same as CM58 Y=00 (2) Same as CM58 Y=04
	• Y=06 Day Mode diversion for non-answering destination station (1) Same as CM58 Y=00 (2) 00: To Attendant Console (NANS key) 08: To TAS
	• Y=07 Night Mode diversion for non-answering destination station (1) Same as CM58 Y=00 (2) Same as CM58 Y=06
If a station is designated by CM58 Y=02, 03, assign the station number or abbreviated code for outside party to which the call is to be diverted.	• Y=08 Day Mode station number (1) Same as CM58 Y=00 (2) X-XXXXXXXX: Station No. CXX : Abbreviated code for outside party XX: 00-31 given by CM71>66
	• Y=09 Night Mode station number (1) Same as CM58 Y=00 (2) Same as CM58 Y=08

HARDWARE REQUIRED

DIT card (DID Trunk)
ODT card (Tie Line Trunk)

ATTENDANT LOOP RELEASE

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with the Attendant Loop Release feature.	(1) 014: Attendant Loop Release (2) 0: Available
END		

To reenter the call that has been released from a loop before Automatic Recall:

START	DESCRIPTION	DATA
CM20	Assign the access code for Call Pickup-Direct.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A021: Call Pickup-Direct
END		

ATTENDANT PROGRAMMING

PROGRAMMING

START	DESCRIPTION	DATA
CM60	Assign the password for Attendant Programming.	• Y=30 (1) 0 (2) X-X...X: Password (Maximum 8 digits) X : 0-9, A (*), B (#) If no data is set, the default setting is NONE. In this case, the password is set to “12345678”.
CM90	Assign the program key for providing Attendant Programming on the DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [›] + Key No. (2) F6111
CM20	Assign the access code for providing Attendant Programming for the DESKCON, if required.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A156
END		

CALL QUEUING

PROGRAMMING

Refer to CALL WAITING DISPLAY. ☞ *Page 65*

CALL SPLITTING

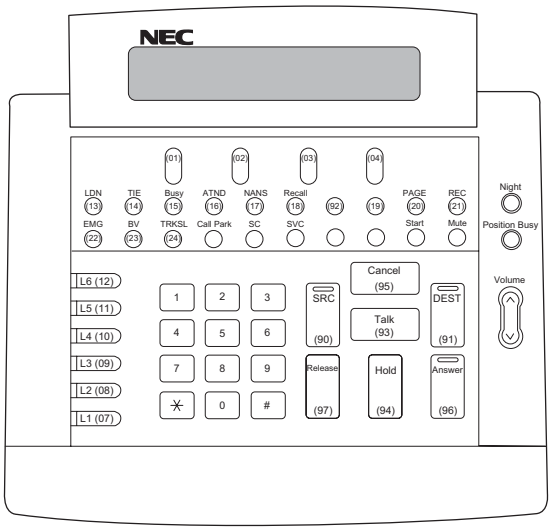
PROGRAMMING

START

CM90

DESCRIPTION

Assign the SRC, DEST, TALK, and CANCEL keys on the DESKCON according to the key label.



DATA

- Y=00

(1) ATTCON No. (E000-E007) + [›] + Key No.

(2) F6200: SRC
F6201: DEST
F6202: CANCEL
F6203: TALK

Key No.	Data	Description (Key Label)	Default Data
90	F6200	Source (SRC)	F6200 (Source)
91	F6201	Destination (DEST)	F6201 (Destination)
93	F6203	Talk (Talk)	NONE
95	F6202	Cancel (Cancel)	F6202 (Cancel)

END

CALL WAITING DISPLAY

PROGRAMMING

START	DESCRIPTION	DATA
CM42	Specify the number of waiting calls which cause the Call Waiting lamp to flash.	(1) 00 (2) 01-48 : 1 call-48 calls NONE◀: 6 calls
END		

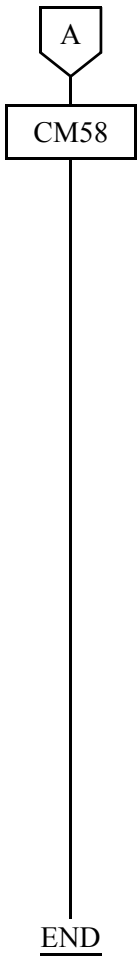
COMMON ROUTE INDIAL

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Diversion Display.	(1) 204 (2) 0: Available
CM90	Assign the required number of LDN keys on the DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6000-F6007: LDN0-7
CM50	Assign the indialed number to each LDN key assigned by CM90. The indialed number should be different from any numbers assigned by CM10/CM14 and CM11.	• Y=01 (1) 1-8: LDN key 0-7 assigned by CM90 (2) X-XXXX: Indialed No.
CM51	Assign the destination to which a DID call is transferred when an unassigned number is dialed.	• Y=06 For DID Call (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No. E000 : Attendant Console
END		

To provide the LDN Diversion feature, the following programming is also required.

START	DESCRIPTION	DATA
CM08	Provide the system with the LDN Diversion feature.	(1) 205 (2) 0: Available
CM58	Assign the data for LDN Diversion to each indialed number assigned by CM50 Y=01.	• Y=00 Tenant No. of LDN (1) 01-08: LDN0-7 assigned by CM50 Y=01 (2) 00-63: Tenant No.
		• Y=01 TAS Group No. (1) Same as CM58 Y=00 (2) 00-63: TAS Group No.
	NOTE: *A call is diverted to LDN0-7 keys as specified by CM58 Y=02-07, even if CM50 Y=01>1-8 has been set.*	• Y=02 Day Mode destination of LDN (1) Same as CM58 Y=00 (2) 00-07: LDN0-7 key 08 : To TAS 09 : To the station/outside party assigned by CM58 Y=08
		• Y=03 Night Mode destination of LDN (1) Same as CM58 Y=00 (2) 00-07: LDN0-7 key 08 : To TAS 09 : To the station/outside party assigned by CM58 Y=09
		• Y=04 Day Mode diversion for busy destination station (1) Same as CM58 Y=00 (2) 00: To Attendant Console (BUSY key) 08: To TAS 09: Camped on
A		



DESCRIPTION	DATA
	• Y=05 Night Mode diversion for busy destination station (1) Same as CM58 Y=00 (2) Same as CM58 Y=04 • Y=06 Day Mode diversion for non-answering destination station (1) Same as CM58 Y=00 (2) 00: To Attendant Console (NANS key) 08: To TAS • Y=07 Night Mode diversion for non-answering destination station (1) Same as CM58 Y=00 (2) Same as CM58 Y=06
If a station is designated by CM58 Y=02, 03, assign the station number to which the call is to be diverted.	• Y=08 Day Mode destination station (1) Same as CM58 Y=00 (2) X-XXXXXXXX: Station No. • Y=09 Night Mode destination station (1) Same as CM58 Y=00 (2) Same as CM58 Y=08

HARDWARE REQUIRED

DIT card (DID Trunk)

DIALED NUMBER IDENTIFICATION SERVICE (DNIS)

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Diversion Display.	(1) 204 (2) 0: Available
CM35	Specify the Incoming Call Identification (ICI) key to which each LDN call or Tie Line call from each trunk route will terminate.	• Y=15 (1) 00-63: Trunk Route No. (2) 00-07: C.O. Incoming Call 0-7 40-47: Tie Line Incoming Call 0-7
CM90	Assign the required number of LDN keys on the DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6000-F6007: C.O. Incoming Call 0-7 F6040-F6047: Tie Line Incoming Call 0-7
CM50	Assign the indialed number to each LDN key or Tie Line key assigned by CM90. The indialed number should be different from any numbers assigned by CM10/CM14 and CM11.	• Y=01 For DID (1) 0 : Effective data in CM35 Y=15 1-8: LDN key 0-7 assigned by CM90 (2) X-XXXX: Indialed No. • Y=02 For Tie Line (1) 0 : Effective data in CM35 Y=15 1-8: Tie Line key 0-7 assigned by CM90 (2) X-XXXX: Indialed No.
CM58	Tenant number of the LDN assigned by CM50 Y=01.	• Y=00 (1) 00 : Effective data in CM35 Y=15 01-08: LDN Key 0-7 assigned by CM90 (2) 00-63: Tenant 00-63
END		

To provide the LDN Diversion feature, the following programming is also required.

START	DESCRIPTION	DATA
CM08	Provide the system with LDN Diversion feature.	(1) 205 (2) 0: Available
CM58	Assign the data for LDN Diversion to each in-dialed number assigned by CM50 Y=01. **NOTE:** *A call is diverted to LDN 0-7 keys as specified by CM58 Y=02, Y=03, even if CM50 Y=01/02>1-8 has been set.*	• Y=02 Day Mode Destination of LDN (1) 00 : Effective data in CM35 Y=15 01-08: LDN key 0-7 assigned by CM90 10 : Effective data in CM35 Y=15 11-18: Tie Line key 0-7 assigned by CM90 (2) 00-07: LDN/TIE key 0-7 • Y=03 Night Mode destination of LDN (1) Same as CM58 Y=02 (2) 00-07: LDN/TIE key 0-7 • Y=08 Day Mode destination station (1) Same as CM58 Y=02 (2) X-XXXXXXXX: Station No. CXX : Abbreviated code for outside party XX: 00-31 given by CM71>66 • Y=09 Night Mode destination station (1) Same as CM58 Y=02 (2) Same as CM58 Y=08
END		

HARDWARE REQUIRED

DIT card (DID Trunk)
ODT card (Tie Line Trunk)

INCOMING CALL IDENTIFICATION

PROGRAMMING

Refer to the following.

SN716 DESKCON ☞ *Page 47*
ATTENDANT CALLED/CALLING NAME DISPLAY ☞ *Page 51*
ATTENDANT CALL SELECTION ☞ *Page 55*
ATTENDANT LISTED DIRECTORY NUMBER ☞ *Page 58*
COMMON ROUTE INDIAL ☞ *Page 66*

INDIVIDUAL TRUNK ACCESS

PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the access code for Individual Trunk Access.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A081
CM30	Assign the Trunk identification code to each trunk. The Trunk ID code is to be dialed after the access code, and displayed on the Attendant Console.	• Y=19 (1) 000-255: Trunk No. assigned by CM10/ CM14 (D000-D255) (2) XXXX: Trunk ID code **NOTE** Set any desired number (4 digit). **NOTE:** *By loading Resident System Program, Trunk Identification Codes are assigned as follows.* *1XXX* *XXX: 000-255: Trunk Number*
END		

MULTI-FUNCTION KEY

PROGRAMMING

START

CM60

Provide each DESKCON Multi-Function key capability.

DATA

- Y=17

(1) 0-7: ATTCON No. assigned by CM10/ CM14

(2) 1◀: Effective

CM90

Assign the required Multi-Function keys to the each DESKCON.

DATA

- Y=00

(1) EXX Y + [,] + Multi-Function key No.
(01-04: DESKCON)
XX: 00-04: ATTCON Status No.
00: Idle State **NOTE 2**
01: When answering or originating
02: When called station is busy
03: When called station is DND
04: When accessing Hotel feature
Y : 0-7: ATTCON No.

(2) F6100: Room Cutoff
F6101: Message Waiting
F6102: Do Not Disturb
F6104: Reset
F6105: Serial Call Set
F6106: Flash over trunk
F6107: Busy Verification
F6108: Do Not Disturb Override
F6109: Wake Up
F6110: Mode **NOTE 3**
F6111: Programming
F6112: Out pulse (PB Signal) Short
F6113: Out pulse (PB Signal) Long
F6203: Talk

NOTE 1: *The following data is assigned as initial data or resident data.*

Key No. / ATTCON Status No.	01	02	03	04	05	06
00	F6110 MODE	F6111 PROG				
01	F6112 SPB	F6113 LPB	F6106 SHF		F6105 SC	F6203 TALK
02						F6107 BV
03						F6108 DDOV
04	F6100 RC	F6101 MW	F6102 DD	F6109 WW		F6104 RESET

NOTE 2: *When setting or canceling a group of stations in Do Not Disturb/Room Cutoff, ATTCON Status number 00 should be used.*

NOTE 3: *For the SN716 DESKCON Multi-Function key, do not assign the MODE key (F6110).*

NOTE 4: *Key No. 05-06 is not available for SN716 DESKCON.*

END

MULTIPLE CONSOLE OPERATION

PROGRAMMING

Refer to ATTENDANT CONSOLE (SN716 DESKCON). ☞ *Page 47*

PUSHBUTTON CALLING-ATTENDANT ONLY

PROGRAMMING

START	DESCRIPTION	DATA
CM35	Assign the type of signaling (DTMF) to Outgoing and Bothway Trunk Routes.	• Y=01 (1) 00-63: Trunk Route No. (2) 7◀: DP/DTMF (Incoming) DTMF (Outgoing)
END		

SERIAL CALL

PROGRAMMING

START	DESCRIPTION	DATA
CM90	Assign the SERIAL CALL SET and SERIAL CALL Keys on the DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6062: Serial Call Termination F6105: Serial Call Set
END		

TRUNK GROUP BUSY DISPLAY

PROGRAMMING

START	DESCRIPTION	DATA
CM30	Assign the trunk group number to each trunk. Several trunks may be assigned to one trunk group number.	• Y=09 (1) 000-255: Trunk No. (2) 01-62: Trunk Group No.
CM90	For providing the Trunk Group Busy Lamps on Attendant Console, assign the trunk group number to required key. **NOTE 1:** *Maximum 6 keys per DESKCON can be assigned. Any six trunk group number out of trunk group number 01-62 can be assigned.* **NOTE 2:** *Key number 1-6 should not be assigned to provide a Trunk Group Busy Lamp.*	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F12XX XX: 01-62: Trunk Group No. assigned by CM30 Y=09
CM44	For providing external Trunk Group Busy Lamps, assign the trunk group number to the required circuit number on the DK card or circuit number of the external relay control on the MP card.	(1) XX Y XX: 00-31: DK Card No. E800-E831 assigned by CM10/CM14 Y : 0-3: Circuit No. 313: Built-in DK on MP card (2) 11XX XX: 01-62: Trunk Group No. assigned by CM30 Y=09
END		

HARDWARE REQUIRED

To provide the Trunk Group Busy Lamps externally:
DK card and lamp indicator provided by customer

UNSUPERVISED TRUNK-TO-TRUNK TRANSFER BY ATTENDANT

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with this feature.	(1) 206 (2) 0 : Not available 1◀: Available
END		

NOTE: *The trunk associated with at least one side of the call must be programmed for answer and/or release signals to ensure the trunks do not lock up.*
Refer to "TRUNK-TO-TRUNK CONNECTION" ☞ Page 716 *for data to be assigned to each trunk.*

ATTENDANT DELAY ANNOUNCEMENT

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign a Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM35	Allow the Announcement Service via Digital Announcement Trunk on Attendant Delay Announcement.	• Y=74 (1) 00-63: Trunk Route No. (2) 0: Allow
CM49	Assign the function of the Digital Announcement Trunk card.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. assigned by CM10/CM14 (EB002-EB127) (2) 0F XX: Attendant Delay Announcement XX : 00-63 (Message No.) • Y=0A (1) 00-63: Tenant No. (2) 00-63: Message No. assigned by CM49 Y=00
A		

	DESCRIPTION	DATA
A		
CM08	Specify the replay timer of the message recorded in the Digital Announcement Trunk.	(1) 165 (2) 0 : Replay at an interval assigned by CM41 Y=0>47 1◀: Replay only once
CM20	To record, replay, and delete a message, assign the Digital Announcement Trunk access codes, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete
CM41	Specify the unanswered timing of message replay.	• Y=0 (1) 16 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
	Specify the Attendant Delay Announcement connection timer.	• Y=0 (1) 67 (2) 01-32: 4-128 seconds (4 second increments) If no data is set, the default setting is 8-12 seconds.
	Specify the interval time of message replay.	• Y=0 (1) 47 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
END		

HARDWARE REQUIRED

DAT card or MP card (built-in DAT)

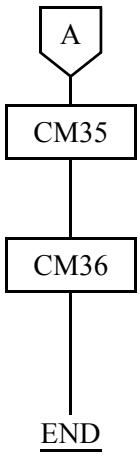
ATTENDANT OVERFLOW

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Attendant Overflow.	(1) 067 (2) 0: Available
CM30	Assign the data for terminating system in Day/ Night Mode for each trunk.	• Y=02 Day Mode (1) 000-255: Trunk No. (2) 14: Termination to Attendant Console • Y=03 Night Mode (1) 000-255: Trunk No. (2) 04: Direct-in Termination • Y=05 Night Station Assignment (1) 000-255: Trunk No. (2) X-XXXXXXXX: Station No.
CM41	Specify the timing interval for Attendant Overflow.	• Y=0 (1) 01 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
END		

To set a station or an outside party as the Attendant Overflow destination:

START	DESCRIPTION	DATA
CM35	Provide Call Forwarding-All Calls on Attendant Overflow.	• Y=173 (1) 00-63: Trunk Route No. (2) 0: Available
CM51	Assign the destination of Attendant Overflow, to the incoming trunk tenant. For an outside number, assign the Virtual Line station number.	• Y=31 (1) 00-63: Incoming Trunk Tenant No. (2) X-XXXXXXXX: Station No. Virtual Line Station No. assigned by CM11
CM11	Assign the Virtual Line station number to the required Virtual LEN.	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Line Station No.
CM12	Assign Service Restriction Class A to the Virtual Line station.	• Y=02 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-All Calls-Outside in Service Restriction Class A assigned by CM12 Y=02.	• Y=26 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CME6	Set Call Forwarding-All Calls-Outside to the Virtual Line station number assigned by CM11.	• Y=00 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) Destination No.: X-XXXX + , + YY...Y X-XXXX: Outgoing Trunk/LCR Group Access Code (1-4 digits) , : Separate Mark YY...Y : Called No. (Maximum 26 digits)
A		



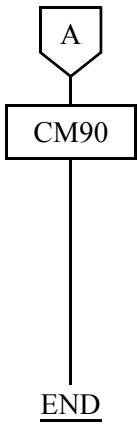
DESCRIPTION	DATA
To apply Call Forwarding-All Calls-Outside, set the trunk route combinations for Tandem Connection.	• Y=05 (1) 00-63: Trunk Route No. **NOTE** (2) 1◀: Release signal arrives **NOTE**
NOTE: *For Resident System Programming, refer to the Command Manual.*	• Y=0 (1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=05 (2) 0: Allow

NOTE: *When a station or an outside party is set as the Attendant Overflow destination, the destination has priority over the delay announcement and Night station.*

ATTENDANT OVERRIDE

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with ATTENDANT OVERRIDE.	(1) 012 (2) 1◀: Available
	Specify the interval of the Warning Tone sent to the connected parties.	(1) 045 (2) 0 : Only once 1◀: Every 4 seconds
	Specify whether the Warning Tone is sent to the outside party.	(1) 076 (2) 0 : To send 1◀: Not sent
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Attendant Override called side in the Service Restriction Class A assigned by CM12 Y=02.	• Y=09 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Individual Trunk Access.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A081: Individual Trunk Access
CM30	Assign the Trunk Identification Code to each trunk. **NOTE:** *By loading the Resident System Program, Trunk Identification Codes are assigned as follows:* *1XXX* *XXX: 000-255 (Trunk number)*	• Y=19 (1) 000-255: Trunk No. (2) XXXX: Trunk ID Code
A		



DESCRIPTION	DATA
Assign the Busy Verification key to DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [›] + Key No. (2) F6107: Busy Verification

NOTE: *By Resident System Program, one of the Multi-Function keys is assigned as a Busy Verification key (when receiving Busy Tone).*

NOTE: *This feature cannot be used in conjunction with Attendant Lockout.*

AUTHORIZATION CODE

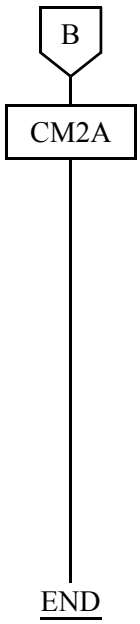
PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the processor for this feature.	(1) 216: Processor for Authorization Code (2) 0 : MP card 1◀: OAI (ACF)
	Specify whether Service Set Tone should be provided after dialing the access code for Authorization Code.	(1) 362: Service Set Tone after dialing the access code (2) 0 : No tone 1◀: Service Set Tone
CM12	Assign Service Restriction Class A for Authorization Code to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Authorization Code in Service Restriction Class A assigned by CM12 Y=02.	• Y=31 Authorization Code (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
	Specify the entry of Authorization Code after dialing an LCR access code and desired number. **[Series 3900 software required]** **NOTE:** *To provide this operation, the following data assignments are required.* *- Toll restriction (CM12 Y=01, CM8A Y=5XXX: 000, CM81)* *- LCR origination (CM20: A126/A127/A128/A129, CM8A Y=5XXX: 180, CM85)*	• Y=401 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 7◀: Restricted
CM20	Assign the access code for Authorization Code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A086: Authorization Code
A		

A

	DESCRIPTION	DATA
CM42	Specify the maximum number of digits for Authorization Code with MP.	(1) 11 (2) Maximum number of digits 01-16 : 1 digit-16 digits NONE◀: 10 digits
CM2A	Assign the ID Code Development number for Authorization Code.	• Y=A0 (1) 0: Authorization Code (2) 0-9: ID Code Development No. 00-09 **NOTE:** *CM2A Y=00-09 is determined by this data.*
	Assign the ID Code for Authorization Code.	• Y=00-09 ID Code Development No. 00-09 (1) X-XX...XX (Maximum16 digits): ID Code for Authorization Code (2) 0000-2999: ID Code Pattern No.
	Assign the purpose of ID Code.	• Y=10 (1) 0000-2999: ID Code Pattern No. (2) 0 : Validate the ID Code entered from stations and trunks 1 : Validate the ID Code entered from stations 3◀: Invalidate the ID Code entered from stations and trunks
	Assign the desired Trunk Restriction Class for each ID Code Pattern number.	• Y=11 (1) 0000-2999: ID Code Pattern No. (2) 1◀: Unrestricted (RCA) 2 : Non-Restricted-1 (RCB) 3 : Non-Restricted-2 (RCC) 4 : Semi-Restricted-1 (RCD) 5 : Semi-Restricted-2 (RCE) 6 : Restricted-1 (RCF) 7 : Restricted-2 (RCG) 8 : Fully-Restricted (RCH)

B



DESCRIPTION	DATA
Assign the desired Service Restriction Class A to each ID Code Pattern number. The features available in each class are assigned by CM15.	• Y=12 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class A
Assign the desired Service Restriction Class B to each ID Code Pattern number. The features available in each class are assigned by CM15.	• Y=13 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class B
Assign the desired Service Restriction Class C to each ID Code.The features available in each class are assigned by CM15.	• Y=14 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class C

NOTE 1: *Approximately 3000 Authorization Codes including Forced Account Codes and DISA codes can be defined.*

Number of the codes varies with the number of digits assigned to each code.
For details, refer to "BUSINESS/HOTEL/DATA FEATURES AND SPECIFICATIONS".

NOTE 2: *When providing Mask Data for Authorization Codes, assign CMD001>160-175. Refer to the STATION MESSAGE DETAIL RECORDING (SMDR).* ☞ Page 615

AUTOMATED ATTENDANT

PROGRAMMING

START	DESCRIPTION	DATA
CM30	Assign the data for Automated Attendant to the required trunks.	• Y=02 Terminating System in Day Mode • Y=03 Terminating System in Night Mode • Y=40 Terminating System in Mode A • Y=41 Terminating System in Mode B (1) 000-255: Trunk No. (2) 09: Automated Attendant
		• Y=30 Handling of busy/not available Automated Attendant destination in Day Mode • Y=31 Handling of busy/not available Automated Attendant destination in Night Mode (1) 000-255: Trunk No. (2) 00 : C.O. line release 01 : Forwarded to TAS indicator 03 : Forwarded to Attendant Console 04 : Forwarded to DIT Station 05 : Music and DT connection for Redial 06 : DT connection for redial 08 : 2nd Answering Message + DT connection for redial **NOTE** 15◀: C.O. line release
	NOTE: *When providing a Night Message for Automated Attendant, the 2nd Answering Message which is assigned by CM49 Y=00 2nd data 02XX is used for the Night Message. In that case, the 2nd data 08 of CM30 Y=30, 31 cannot be specified for handling of Busy/Not Available Automated Attendant destination.*	
		• Y=32 Handling of timed-out Automated Attendant call in Day Mode • Y=37 Handling of timed-out Automated Attendant call in Night Mode (1) 000-255: Trunk No. (2) 00 : C.O. line release 01 : Forwarded to TAS indicator 03 : Forwarded to Attendant Console 04 : Forwarded to DIT station 06 : DT connection for redial 15◀: C.O. line release
A		

A

	DESCRIPTION	DATA
CM30		• Y=33 Handling of all PBR busy when Y=30, 31 is set to data 08 (1) 000-255: Trunk No. (2) 00 : C.O. line release 01 : Forwarded to TAS indicator 03 : Forwarded to Attendant Console 15◀: C.O. line release
CM45	Assign the PB (DTMF) Receiver for only Automated Attendant, if desired.	• Y=2 (1) XX Z: PB Receiver No. XX : 00 (Built-in PBR on MP card) 01-15 (8RST Card No. assigned by CM10/CM14, E201-E215) Z : 0-3 (Circuit No.) (2) 0: Only for Automated Attendant
CM63	Specify whether inter-tenant connection is allowed on an Automated Attendant incoming call.	• Y=2 (1) XX ZZ XX: 00-63 (Tenant No. of called station) ZZ : 00-63 (Tenant No. of trunk) (2) 0 : Restricted 1◀: Allowed
CM64	Assign the answering method for the Automated Attendant, to the required tenants.	• Y=0 (1) 00-63: Tenant No. (2) 00 : DT Connection 01 : Hold Tone on MP card + DT Connection 02 : 1st Answering Message + DT Connection 03◀: DT Connection
	For providing a Night Message, assign the answering method of Night Mode, to the required tenants.	• Y=2 (1) 00-63: Tenant No. (2) 00 : DT Connection 01 : Hold Tone on MP card + DT Connection 02 : Night Message assigned by CM49 Y=00, 02XX 03◀: According to the data set by CM64 Y=0

B

B

	DESCRIPTION	DATA
CM48	Specify whether no Dial Tone connection is required for the answering method assigned by CM64 Y=0.	• Y=2 (1) 06 (2) 0 : No Dial Tone 1◀: Dial Tone
CM08	Specify the ringing cadence for an Automated Attendant call.	(1) 180 (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF **[For North America]** Special Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*) **[For EU]** 1◀: As per CM35 Y=33
	Specify the process when a call is transferred by an Automated Attendant to a predetermined station and time-out occurs.	(1) 359 (2) 0 : Disconnect call 1◀: Continue call
	Specify the process for an Automated Attendant call when a caller dials while receiving the message or music.	(1) 363 (2) 0 : Not allowed (Allowed after receiving the message or music) 1◀: Allowed

C

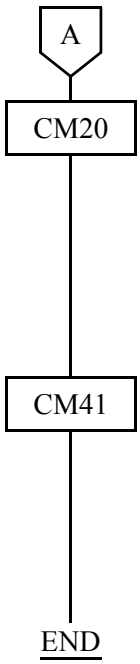
C

	DESCRIPTION	DATA
CM41	Specify the time before answering by Automated Attendant.	• Y=0 (1) 59 (2) 00-08: 0-32 seconds (4 second increments) If no data is set, the default setting is 4-8 seconds.
	Specify the time before an Automated Attendant call is redirected because no digits are received from the calling party.	• Y=0 (1) 34 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
	Specify the timing of unanswered call after forwarding to predetermined station in Automated Attendant.	• Y=0 (1) 39 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
	Specify the time before Dial Tone timeout in Automated Attendant.	• Y=0 (1) 43 (2) 01-14: 1-14 seconds (1 second increments) If no data is set, the default setting is 14 seconds.

END

When the 1st and/or the 2nd answering message is required: CM30 Y=30, 31>2nd data 08, CM64 Y=0>2nd data 02, or Night Message is required: CM64 Y=2>2nd data 02, do the following programming.

START	DESCRIPTION	DATA
CM10	Assign the Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign the Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM49	Assign the function of the Digital Announcement Trunk.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. assigned by CM10/CM14 (2) 01XX: 1st Answering Message 02XX: 2nd Answering Message/Night Message XX : 00-63 (Message No.)
	Assign the Message number to the required tenants.	• Y=01 For 1st Answering Message • Y=02 For 2nd Answering Message/Night Message (1) 00-63: Tenant No. (2) 00-63: Message No. assigned by CM49 Y=00
A		



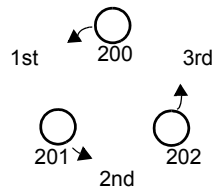
DESCRIPTION	DATA
To record, replay, or delete a message, assign the respective Digital Announcement Trunk access codes.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete
Specify the message replay timer for Automated Attendant.	• Y=0 (1) 51 (2) 01-31: 8-128 seconds (4 second increments) If no data is set, the default setting is 64-68 seconds.

HARDWARE REQUIRED

For providing the first and/or second Answering Message/Night Message
DAT card or MP card (built-in DAT)

AUTOMATIC CALL DISTRIBUTION (ACD)

PROGRAMMING

START	DESCRIPTION	DATA
CM17	For each ACD group, assign station numbers, one by one, in the order of hunting. **NOTE:** *Up to 60 stations can be assigned into a single ACD group.* **Example:** For setting station numbers 200, F201, 202 into one ACD group. 1st Operation (1) 200 (2) 201 2nd Operation (1) 201 (2) 202 3rd Operation (1) 202 (2) 200  	• Y=0 (1) X-XXXXXXXX: Station No. (2) X-XXXXXXXX: Another station No. to be linked
	Assign the Pilot station and Member station. **NOTE:** *Pilot station must be a non-equipped LEN (CM10/CM14) phantom.*	• Y=1 (1) X-XXXXXXXX: ACD station No. (2) 1 : Pilot station 0◀: Member station
	Assign the ACD group number.	• Y=2 (1) X-XXXXXXXX: ACD station No. (2) 00-15: ACD Group 00-15
	Specify ACD service for each type of call.	• Y=4 Internal Call (1) X-XXXXXXXX: Pilot station No. of ACD group (2) 0 : Not provided 1◀: To provide
A		

	DESCRIPTION	DATA
A		
CM17		• Y=5 C.O. (DDD/FX/WATS) Incoming Call (1) X-XXXXXXXX: Pilot station No. of ACD group (2) 0 : Not provided 1◀: To provide • Y=6 Tie Line Incoming Call (1) X-XXXXXXXX: Pilot station No. of ACD group (2) 0 : Not provided 1◀: To provide • Y=7 DID/Automated Attendant Call (1) X-XXXXXXXX: Pilot station No. of ACD group (2) 0 : Not provided 1◀: To provide • Y=B Designation of number of queuing in each ACD group (1) X-XXXXXXXX: Pilot station No. of ACD group (2) 0 : To provide (See CM42>16) 1◀: Not provided
CM42	Specify the maximum number of queuing in each ACD group.	(1) 16 (2) 01-99 : 1 call-99 calls NONE◀: No limit
CM41	Specify the basic call answer delay time for use in PEG Count analysis.	• Y=0 (1) 16 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
CM20	Assign the access code for ACD Station Busy Out Set and Reset.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A044: Busy Out Set A045: Busy Out Reset
B		

B

	DESCRIPTION	DATA
CM90	Assign the ACD Busy Out key on the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0044: ACD Busy Out
	Assign the Release key on the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1020: Release
CM08	Specify the processing for an incoming call when all ACD stations are busy.	(1) 212 (2) 0 : Busy Tone Connection 1◀: Queuing
	Specify the processing for a held call after the agent sets the ACD Busy Out.	(1) 214: For the held call from Tie Line (2) 0 : Reconnected by Switch Hook Flash 1◀: Disconnected
		(1) 215: For the held call from C.O. Line (2) 0 : Reconnected by Switch Hook Flash 1◀: Disconnected
	Specify whether the transferred C.O. call from a station or an attendant is placed into queuing mode when all ACD stations are busy. **NOTE:** *This data is only effective when CM08>212 is set to 1.*	(1) 227 (2) 0 : The call is placed into queuing mode **NOTE** 1◀: Recall to the transferring station when the call is transferred from a station, or attendant Camp-On is set when the call is transferred from Attendant
	Enable the ACD Busy Out set and reset from the secondary extension.	(1) 442 (2) 0 : Available 1◀: Not available

END

To provide DID Number Conversion for an ACD Group:
See DID DIGIT CONVERSION. ☞ *Page 303*

BUSY IN/BUSY OUT-ACD

PROGRAMMING

To provide ACD Busy Out indication on DSS Console:

START	DESCRIPTION	DATA
CM08	Provide the system with ACD Busy Out indication on DSS Console.	(1) 265 (2) 0: To provide
CM97	Assign the function key on each DSS Console.	(1) DSS Console No. (00-31) + , + Function Key No. (57-59) (2) F1055: ACD Busy Out
END		

CALL WAITING INDICATION-ACD

PROGRAMMING

To provide Call Waiting (CW) LEDs on the D^{term}:

START	DESCRIPTION	DATA
CM08	Assign the incoming call to queuing mode when all ACD stations are busy.	(1) 212 (2) 1◀: Queuing
CM42	Specify the maximum number of queuing in each ACD group for controlling call waiting lamp of a D^{term}.	(1) 15 (2) 01-99 : 1 call-99 calls NONE◀: 1 call

NOTE: *Depending on the number of queuing station/trunk, lamp indication pattern on a D^{term} is different as shown below:*

N=Number of queuing station/trunk

CONDITIONS	LAMP INDICATION
2nd Data=01	Steady on red irrespective of number of queuing station/trunk
1≤N<2nd Data (2nd Data≠01)	Steady on red
2nd Data≤N (2nd Data≠01)	Flashing red

CM90	Assign the ACD Call Waiting Indication LED to the required D^{term}, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1280-F1295: ACD Group 0-15

END

To provide an external Call Waiting Indicator:

START

CM08 — Assign the incoming call to queuing mode when all ACD stations are busy.

DATA
(1) 212
(2) 1◀: Queuing

CM42 — Specify the maximum number of queuing in each ACD group for controlling external indicator lamp.

DATA
(1) 15
(2) 01-99 : 1 call-99 calls
NONE◀: 1 call

NOTE: *Depending on the number of queuing station/trunk, lamp indication pattern on the external indicator is different as shown below:*

N=Number of queuing station/trunk

CONDITIONS	LAMP INDICATION
2nd Data=01	Lamp on irrespective of number of queuing station/trunk (For the indication pattern, see CM59 in next page.)
N<2nd Data (2nd Data≠01)	Lamp off
2nd Data≤N (2nd Data≠01)	Lamp on (For the indication pattern, see CM59 in next page.)

CM10 — Assign the DK card to the required LEN.

NOTE 1: *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*

DATA
(1) 000-763: LEN
(2) E800-E831 : DK card No.
For PIM0/1: E800-E807
For PIM2/3: E808-E815
For PIM4/5: E816-E823
For PIM6/7: E824-E831

NOTE 2: *Circuit No. 3 of E831 is used for built-in External Equipment Interface on MP card by setting CM44.*

CM14 — Assign the DK card to the required LEN.
[Series 3200 R6.2 software required]

NOTE 1: *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*

DATA
(1) XX ZZZ: LEN
XX : 00-59: FP No.
ZZZ: 000-127: Port No.
(2) E800-E831 : DK card No.
For FP No. 00 : E800-E807
For FP No. 01 : E808-E815
For FP No. 02 : E816-E823
For FP No. 03 : E824-E831

NOTE 2: *Circuit No. 3 of E831 is used for built-in External Equipment Interface on MP card by setting CM44.*

A

	DESCRIPTION	DATA
A		
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
CM44	Set the function of ACD Calling Waiting Indication to the DK.	(1) XX Y XX: 00-31: Card No. assigned by CM10/ CM14 (E800-E831) Y : 0-3: Circuit No. 313: Built-in External Equipment Interface on MP card (2) 14XX XX: 00-15: ACD Group No. assigned by CM17
CM59	Specify the external ACD Call Waiting indication pattern.	(1) 00 (2) 01 : 30 IPM (1 second ON/OFF) 02 : 60 IPM (0.5 seconds ON/OFF) 03 : 120 IPM (0.25 seconds ON/ OFF) 07 : Steady on NONE◀: 120 IPM (0.25 seconds ON/ OFF)
END		

DELAY ANNOUNCEMENT-ACD

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Digital Announcement Trunk Access (Record/Replay/Delete) to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XXZZ XX: 00-15◀: Service Restriction Class A
CM15	Assign Digital Announcement Trunk Access in Service Restriction Class A assigned by CM12 Y=02.	• Y=33 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM10	Assign the Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign the Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM17	Specify the pattern of message sent to each ACD group periodically.	• Y=A (1) X-XXXXXXXX: Pilot station No. of ACD group (2) 0: To send periodically
A		

	DESCRIPTION	DATA
A		
CM41	If the data for CM17 Y=A is "0", set the interval time for ACD Delay Announcement.	• Y=0 (1) 47 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
	Specify the maximum ACD call waiting time before answer or abandonment for ACD PEG Count, and waiting time before ACD Delay Announcement.	• Y=0 (1) 16 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
CM49	Assign the ACD Delay Announcement function to the required Digital Announcement Trunk.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card (EB002-EB127) No. assigned by CM10/CM14 (2) 0B0XX XX: 00-15: ACD group No.
CM51	When transferring the call to a station or Attendant after the 1st interval time of ACD Delay Announcement, assign the destination. **NOTE:** *This is a separate feature called "Delay Overflow". ACD Delay Announcement is required in order for this feature to work.*	• Y=17 (1) 00-63: Tenant No. (2) Destination: X-XXXXXXXX: Station No. E000 : Attendant Console
CM20	To record, replay and delete a message, assign the Digital Announcement Trunk access code, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access code (2) A100: Record A101: Replay A102: Delete
CM08	Specify a diversion display on a D^{term} or Attendant Console when transferring an ACD call.	(1) 357 (2) 0 : Available 1◀: Not available
END		

When sending the ACD second delay announcement:

START	DESCRIPTION	DATA
CM08	Provide the system with Busy Tone Connection for processing when all ACD stations are busy.	(1) 212 (2) 0: Busy Tone Connection
CM10	Assign the Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign the Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM17	Specify the pattern of message sent to each ACD group periodically.	• Y=A (1) X-XXXXXXXX: Pilot station number of ACD group (2) 0: To send periodically
A		

	DESCRIPTION	DATA
A		
CM41	Set the interval time of ACD Delay Announcement.	• Y=0 (1) 47 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
	Specify the maximum ACD call waiting time for ACD PEG Count, and waiting time before ACD Delay Announcement.	• Y=0 (1) 16 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
CM49	Assign the ACD Delay Announcement function and the ACD Second Delay Announcement function to the required Digital Announcement Trunk.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. assigned by CM10/ CM14 (2) 11XX: ACD Second Delay Announcement XX : 00-15: ACD group No.
END		

HUNT PAST NO ANSWER-ACD

PROGRAMMING

Refer to CALL FORWARDING-NO ANSWER. ☞ *Page 142*

IMMEDIATE OVERFLOW-ACD

PROGRAMMING

Refer to CALL FORWARDING-BUSY LINE. ☞ *Page 140*

PRIORITY QUEUING-ACD

PROGRAMMING

START	DESCRIPTION	DATA
CM35	Assign Priority Queuing per trunk route.	• Y=60 (1) 00-63: Trunk Route No. (2) 0 : To provide 1◀: Not provided
CM76	Assign Priority Queuing per DID incoming LDN, if Digit Conversion is provided (CM35 Y=18 is set to 0).	• Y=11 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : Not provided 1◀: To provide
END		

QUEUE SIZE CONTROL-ACD

PROGRAMMING

Refer to AUTOMATIC CALL DISTRIBUTION (ACD). ☞ *Page 95*

SILENT MONITOR-ACD

PROGRAMMING

To monitor an ACD call, with or without warning tone:

NOTE: *Monitoring telephone conversations may be illegal under certain circumstances and laws. Consult a legal advisor before implementing the monitoring of telephone conversations. Some federal and state laws require a party monitoring a telephone conversation to use beep-tones, to notify all parties to the telephone conversation, and/or obtain consent from all parties to the telephone conversation. Some of these laws provide strict penalties for illegal monitoring of telephone conversations.*

START	DESCRIPTION	DATA
CM08	Specify the warning tone sent to connected stations when monitoring a station-to-station or station-to-trunk call.	(1) 259 (2) 0 : No tone 1◀: One warning tone
	Specify whether the warning tone is sent to the outside party when monitoring a station-to-trunk call.	(1) 076 (2) 0 : To send 1◀: Not sent
CM12	Assign Service Restriction Class A for monitoring stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow monitoring stations in Service Restriction Class A assigned by CM12 Y=02.	• Y=103 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM12	Assign Service Restriction Class A for monitored stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow being monitored in Service Restriction Class A assigned by CM12 Y=02.	• Y=104 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
A		

	DESCRIPTION	DATA
A		
CM20	Assign the access code for monitoring, if required.	• Y=0-3 Number Plan Group 0-3 (1) X-XXXX: Access Code (2) A033: Monitor
CM90	Assign a monitoring function key to the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0033: Monitoring
CM08	Specify the action of monitoring station after the hold/hooking key is pressed in the monitored station or the monitored station becomes idle. **[Series 3500 software required]**	(1) 560 (2) 0 : Keep monitoring 1◀: Stop monitoring
CM48	When setting the second data of CM08>560 to 0 (keep monitoring), set the music for Internal Hold Tone that is sent to monitoring station. **NOTE 1:** *When PN-CP24-D/PN-CP26-B/PN-CP27-B/PN-CP31-D is used as MP card, the following tone sources are not available: "It's a small world (2nd data 05)", "Let it be (2nd data 07)", and "If you love me (2nd data 09)". "Minuet" will be set instead of those tone sources.* **NOTE 2:** *This data setting is effective only for the legacy terminal. For D^{term}IP, this data setting is not effective. D^{term}IP uses the tone source in IP Adapter (Minuet).*	• Y=3 (1) 01 (2) 00 : Nocturne 01 : Minuet 02 : Fur Elise 03 : The Maiden's Prayer 04 : When the saints go marching in 05 : It's a small world 06 : Spring (by four seasons) 07 : Let it be 08 : Ich bin ein Musikante (German folk song) 09 : If you love me 10 : Amaryllis (French folk song) NONE◀: Minuet
	Define the type of call to be provided with Hold Tone on the MP card.	• Y=0 (1) 02: Internal Call (2) 1400: Hold Tone Source on MP card
END		

HARDWARE REQUIRED

To provide the delay announcement for ACD:
DAT card or MP card (built-in DAT)

To provide the external Call Waiting Indicator:
DK card or MP card (built-in External Equipment Interface)
External Indicator

Requirement for External Indicator
Control Method: Ground/Battery (Maximum125 mA)
Type: Visual and/or Audible type with volume control

AUTOMATIC CALL DISTRIBUTION (ACD) WITH MANAGEMENT INFORMATION SYSTEM (MIS)

NOTE: *Additional programming is required for MIS, once ACD has been programmed. Refer to the CallCenterWorX System Manual. If you use the CallCenterWorX, the maximum digit of a station number must be 4 digits.*

AUTOMATIC CAMP-ON

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the Camp-On Tone pattern.	(1) 068 (2) 0 : Send out only once 1◀: Repeat at 4 second intervals
CM30	Assign Automatic Camp-On to the required DIT trunks.	• Y=13 In Day Mode • Y=14 In Night Mode (1) 000-255: Trunk No. (2) 06: Automatic Camp-On
END		

AUTOMATIC CHANGE TO DAYLIGHT SAVING TIME

[Series 3600 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM43	Specify the automatic change time of the system clock from standard time to daylight-saving time (for change pattern 0). **NOTE:** *The change of system clock is executed at 2:00 am (in standard time) of the specified day.*	• Y=8 (1) 00 (2) MM W D MM: 01-12 (Change Month) W: 1-4/9 (Change Week) 1-4: First-Fourth Week 9 : Final Week D : 0-6 (Change Day of the week) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday NONE◀: Automatic clock change is not provided
	Specify the automatic change time of the system clock from daylight-saving time to standard time (for change pattern 0). **NOTE:** *The change of system clock is executed at 3:00 am (in daylight-saving time) of the specified day.*	• Y=8 (1) 01 (2) MM W D MM: 01-12 (Change Month) W: 1-4/9 (Change Week) 1-4: First-Fourth Week 9 : Final Week D : 0-6 (Change Day of the week) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday NONE◀: Automatic clock change is not provided
A		

A

CM43

DESCRIPTION	DATA
Specify the automatic change time of the system clock from standard time to daylight-saving time (for change pattern 1). **NOTE:** *The change of system clock is executed at 2:00 am (in standard time) of the specified day.*	• Y=8 (1) 04 (2) MM W D MM: 01-12 (Change Month) W: 1-4/9 (Change Week) 1-4: First-Fourth Week 9 : Final Week D : 0-6 (Change Day of the week) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday NONE◀: Automatic clock change is not provided
Specify the automatic change time of the system clock from daylight-saving time to standard time (for change pattern 1). **NOTE:** *The change of system clock is executed at 3:00 am (in daylight-saving time) of the specified day.*	• Y=8 (1) 05 (2) MM W D MM: 01-12 (Change Month) W: 1-4/9 (Change Week) 1-4: First-Fourth Week 9 : Final Week D : 0-6 (Change Day of the week) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday NONE◀: Automatic clock change is not provided

B

B

	DESCRIPTION	DATA
CM67	Assign the automatic clock change pattern to each location number.	• Y=31 (1) 00-63: Location No. (2) 0 : Change Pattern 0 (assigned by CM43 Y=8>00/01) 1 : Change Pattern 1 (assigned by CM43 Y=8>04/05) NONE◀: Automatic clock change is not provided
	Set the daylight-saving time to each location. **NOTE:** *Usually do not set this command by MAT/CAT. This command is set automatically when automatic system clock change has been executed by CM43 Y=8/CM67 Y=31.* *If the system power is off at the time for clock change, set this data.*	• Y=30 (1) 00-63: Location No. (2) 0 : To operate with Daylight-Saving Time NONE◀: To operate with Standard Time
CM08	Specify the system clock used for the SMDR output of outgoing/incoming call.	(1) 836 (2) 0 : System clock of the site that the seized trunk is accommodated (for outgoing call)/System clock of site that the terminated trunk is accommodated (for outgoing call) 1◀: System clock of Main Site
	Specify the system clock used for the SMDR output of station to station call.	(1) 837 (2) 0 : System clock of the site that the seized trunk/calling station is accommodated 1◀: System clock of Main Site
	Specify the system clock used for the date pattern/time pattern in LCR service.	(1) 904 (2) 0 : System clock of the site that the seized trunk/calling station is accommodated 1◀: System clock of Main Site

END

To read the system clock which the automatic clock change was executed (for change pattern 0/change pattern 1):

START	DESCRIPTION	DATA
CM43	Read the system clock which the automatic clock change was executed from standard time to daylight-saving time (for change pattern 0).	• Y=8 (1) 02 (2) YYYY MM DD YYYY : 2000-2099 (Year) MM : 01-12 (Month) DD : 01-31 (Date) NONE◀: Automatic clock change has not been executed
	Read the system clock which the automatic clock change was executed from daylight-saving time to standard time (for change pattern 0).	• Y=8 (1) 03 (2) YYYY MM DD YYYY : 2000-2099 (Year) MM : 01-12 (Month) DD : 01-31 (Date) NONE◀: Automatic clock change has not been executed
	Read the system clock which the automatic clock change was executed from standard time to daylight-saving time (for change pattern 1).	• Y=8 (1) 06 (2) YYYY MM DD YYYY : 2000-2099 (Year) MM : 01-12 (Month) DD : 01-31 (Date) NONE◀: Automatic clock change has not been executed
	Read the system clock which the automatic clock change was executed from daylight-saving time to standard time (for change pattern 1).	• Y=8 (1) 07 (2) YYYY MM DD YYYY : 2000-2099 (Year) MM : 01-12 (Month) DD : 01-31 (Date) NONE◀: Automatic clock change has not been executed
END		

To read out of daylight-saving time of Main Site:

START	DESCRIPTION	DATA
CM02	Read out of daylight-saving time of Main Site.	(1) 3 (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
END		

AUTOMATIC HOLD

[Series 3800 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM13	Specify the operation at pressing another Line/ Trunk key while talking on the station/trunk using Trunk-Direct Appearances.	• Y=58 (1) X-XXXXXXXX: My Line No. (2) 0: Hold the call and seize the Line/Trunk key
END		

AUTOMATIC NUMBER IDENTIFICATION (ANI)

PROGRAMMING

(1) DTI Assignment for ANI

START	DESCRIPTION	DATA
CM30	Assign a trunk route number to each DTI.	• Y=00 (1) 000-255: Trunk No. (2) 00-63: Trunk Route No.
	Specify the Terminating System in Day Mode, Night Mode, Mode A and Mode B for incoming calls.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. (2) 31◀: DID, Tie line and any call which is not handled by the PBX
CM35	Assign the trunk route data to each DTI route.	• Y=00 Kind of trunk route (1) 00-63: Trunk Route No. (2) 00: DDD (C.O./DID), ISDN trunk
		• Y=04 Answer signal from distant office (1) 00-63: Trunk Route No. (2) 2: Answer signal arrives
		• Y=05 Release signal from distant office (1) 00-63: Trunk Route No. (2) 1◀: Release signal arrives
		• Y=09 Incoming connection signaling (1) 00-63: Trunk Route No. (2) 03: Wink Start
		• Y=10 2nd DT sending on call termination (1) 00-63: Trunk Route No. (2) 0: 2nd Dial Tone is not sent
A		

A

CM35

DESCRIPTION

DATA

CONNECTION PATTERNS	PAD DATA OF DTI (dB)			
	DATA =4 (T/R)	DATA =5 (T/R)	DATA =6 (T/R)	DATA =7 (T/R)
Station-DTI	–3/–8	–3/–3	–3/–3	–3/–8
Tone-DTI	0/0	0/0	0/0	0/0
COT/DID/ODT (2W E&M)/IPT-DTI	0/0	0/0	0/0	0/0
ODT (4W E&M)-DTI	+3/–3	0/0	0/0	+3/–3
DTI/BRT/PRT/ CCT/Virtual IPT-DTI	0/–6	0/0	0/-6	0/0

T/R: Transmitter PAD/Receiver PAD
\+ : Gain
– : Loss

- Y=19 DTI Pad

(1) 00-63: Trunk Route No.
(2) 0-3 : Programmable PAD (See CM42)
4-7◀: Fixed PAD (See left table)

- Y=20 Sender Start Condition

(1) 00-63: Trunk Route No.
(2) 00: Wink Start

Assign calling number sending method from the network to each trunk route.

- Y=129 Calling No. Sending Method

(1) 00-63: Trunk Route No.
(2) 0: Caller ID (Class SM)
1: T1-ANI

END

(2) MF Signaling Assignment

START	DESCRIPTION	DATA
CM05	Assign an AP number to MF Receiver Trunk. (INITIAL) **NOTE:** *The SENSE switch on the MF Receiver Trunk gives the AP number.*	• Y=0 (1) 04-15, 20-31: AP No. (2) 08: MF Receiver Trunk (4RSTB card)
CM06	Assign MF Receiver Trunk number to each MF Receiver Trunk. (INITIAL)	• Y=04 (1) 00-15: MF Receiver Trunk No. (2) XX Z XX: AP No. assigned by CM05 Z : 0-3: Circuit No.
CM09	Provide system with MF Signaling. (INITIAL)	(1) 52: MF Signaling (2) 0◀: To provide
CMAA	Assign calling number sending method from the network to the AP number of MF Receiver Trunk.	• Y=07 (1) 04-15, 20-31: AP No. assigned by CM05 (2) 0: Caller ID (Class SM) 1: T1-ANI
CM35	Provide required DID trunk route with MF Signaling.	• Y=37 MF Signaling Assignment (1) 00-63: Trunk Route No. (2) 0: Available
CM31	Assign MF PAD control level to the incoming signal.	• Y=1 (1) 0: MF PAD Control level (2) 0 : –8.0 dBm 1 : –10.0 dBm 2 : –11.5 dBm 3 : –9.13 dBm 4-7◀: Not used
A		

	DESCRIPTION	DATA
A		
CM31	Assign MF Receiver sensitive level. (INITIAL)	• Y=1 (1) 1: MF Receiver Sensitive level (2) 00-14: –21 dBm- –35 dBm 15◀ : –36 dBm (–1 dBm increments)
	Assign MF Receiver to each circuit number (0-3) of the MF Receiver Trunk. (INITIAL)	• Y=2 (1) 0-3 : AP No. **NOTE** (2) 3◀: All circuits assigned as Receiver **NOTE:** *AP numbers 0-3 correspond to the AP numbers assigned by CM05 (04-15, 20-31):* *CM31 Y=2 CM05 Y=0* *AP Number 0: AP Number X* *AP Number 1: AP Number Y* *AP Number 2: AP Number Z* *AP Number 3: AP Number W* *(X<Y<Z<W)*
	Assign supervisory timer of interdigit pause on incoming signal.	• Y=B (1) 05: Supervisory Timer of Interdigit Pause on Incoming Signal (2) NONE◀: 24 seconds 01-31 : 1-31 seconds
CM35	Assign Busy/Idle information not to be sent to T1 network.	• Y=48 Busy/Idle Sending to T1 Network (1) 00-63: Trunk Route No. (2) 0: Not available
END		

(3) ANI Assignment

START	DESCRIPTION	DATA
CM08	Assign requiring of ANI Signal from T1 network when an incoming call terminates.	(1) 472 (2) 0: Available
CM31	Assign the Signal Pattern received from T1 network. (INITIAL) • When the Signal Pattern from T1 network is FGD-Format: Assign the data to "NONE". • When the Signal Pattern from T1 network is ANI-Format: Assign the data to "02". **NOTE**	• Y=3 (1) 00: Signal Pattern from T1 Network (2) NONE◀: ANI + Called No. 02 : ANI
	Assign the number of digits of Called Number received from T1 network. (INITIAL)	• Y=1 (1) 2: Number of Digits of Called No. (2) NONE◀: No data 01-31 : 1-31 digits
	Assign the signal kind of Called Number sent from T1 network. **NOTE:** • *When the Signal Pattern from T1 network is FGD-Format: Assign the data to "1".* • *When the Signal Pattern from T1 network is ANI-Format: Assign the data to "0".*	• Y=A (1) 17: Signal Kind of Called No. **NOTE** (2) 0 : DP 1◀: DTMF
	Assign the ACK-WINK Signal to be sent to the DTI when the signal kind of Called from T1 network is MF Signal. **NOTE:** • *When the Signal Pattern from T1 network is FGD-Format: Assign the data to "0".* • *When the Signal Pattern from T1 network is ANI-Format: Assign the data to "1".*	• Y=A (1) 16: Sending of ACK-WINK Signal on Receiving MF Signal **NOTE** (2) 0 : To send 1◀: Not sent
A		

A

	DESCRIPTION	DATA
CM31	Assign the ACK-WINK Signal to be sent to the DTI when the signal kind of called number received from T1 network is DP Signal. **NOTE:** • *When the Signal Pattern from T1 network is FGD-Format: Assign the data to "1".* • *When the Signal Pattern from T1 network is ANI-Format: Assign the data to "0".*	• Y=A (1) 18: Sending of ACK-WINK Signal on Receiving DP Signal **NOTE** (2) 0 : To send 1◀: Not sent
	Assign the number of digits of ANI received from T1 network. INITIAL	• Y=1 (1) 3: ANI Digits from T1 Network (2) NONE◀: No data 01-31 : 1-31 digits
	Assign the number of digits to be deleted from ANI, if required. < An example of FGD Format > Received digits: Key Pulse + XX + 1234567890 + Stop Pulse ANI (10 digits) Information digits (2 digits) ↓ • 2 digits deletion • Identification on the terminal: 10 digits (ANI)	• Y=A (1) 14: Number of Deleting Digits from ANI (2) NONE◀: No digit deletion 00 : No digit deletion 01-10 : Leading one digit deletion-Leading 10 digits deletion
CM08	Assign whether ANI is sent to the OAI terminal or not.	(1) 462: Sending ANI to OAI terminal (2) 0 : To send 1◀: Not sent
	Assign whether ANI is sent to the SMDR terminal or not.	(1) 463: Sending ANI to SMDR terminal (2) 0 : To send 1◀: Not sent

END

When the signal pattern of the called number sent from T1 network is as shown below, assign the following data, if required.

Called Number=NPA + NNX + Called Station Number

START	DESCRIPTION	DATA
CM35	Assign the Digit Addition/Deletion on the incoming calls.	• Y=17 Digit Addition/Deletion Assignment (1) 00-63: Trunk Route No. (2) 00-09: "0" add -"9" add 10 : 2-digit addition (CM50 Y=00>0) 11 : 1 digit deletion 12 : 2 digits deletion 15◀ : Addition/deletion is not performed
CM20	Assign the access code for LCR Group 0-3.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3
CM8A	Assign an area code for Intra-Office Termination.	• Y=4005-4007 Area Code Development No. 5-7 (1) X-XXXXXXXX: Area Code, 1-8 digits (2) 8000: Intra-Office Termination
END		

NOTE: *FGD-Format and ANI-Format are:*

SIGNAL PATTERN	CALLED NUMBER	ANI
FGD-Format	MF Signal	MF Signal
ANI-Format	DP Signal	MF Signal

HARDWARE REQUIRED

DTI card
MFR card

AUTOMATIC RECALL

PROGRAMMING

START	DESCRIPTION	DATA
CM41	Specify the timing for AUTOMATIC RECALL. If no data is set, the following timing will be applied: Attendant Recall : 31.2-33.6 seconds Non Exclusive Hold : 60-64 seconds Exclusive Hold : 236-240 seconds Transfer Recall : 24-28 seconds Attendant Hold Recall: 31.2-33.6 seconds Camp-On Recall : 24-32 seconds	• Y=0 (1) 00: Attendant Recall (2) 01-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) (1) 05: Non Exclusive Hold (2) 01-98: 4-392 seconds (4 second increments) 99 : Recall is not performed (1) 06: Exclusive Hold (2) 01-98: 4-392 seconds (4 second increments) 99 : Recall is not performed (1) 07: Transfer Recall (2) 01-30: 4-120 seconds (4 second increments) (1) 11: Attendant Hold Recall (2) 01-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) (1) 26: Camp-On Recall (2) 01-15: 16-128 seconds (8 second increments)
END		

BACKGROUND MUSIC

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign BGM Interface trunks (COT card/TNT card) to the required LEN. **NOTE:** *The TNT trunk number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) 000-763: LEN (2) D000-D255: COT/TNT Trunk No.
CM14	Assign BGM Interface trunks (COT card/TNT card) to the required LEN. **[Series 3200 R6.2 software required]** **NOTE:** *The TNT trunk number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255: COT/TNT Trunk No.
CM12	Assign Service Restriction Class A to the required D^{term}s.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Background Music on D^{term} in Service Restriction Class A assigned by CM12 Y=02.	• Y=32 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for this feature.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access code (66) (2) A039: BGM on D^{term}
CM30	Assign a trunk route number to the BGM Interface trunk (COT card/TNT card).	• Y=00 (1) 000-255: Trunk No. (2) 00-63: Trunk Route No.
CM35	Assign the BGM interface to each trunk route.	• Y=00 (1) 00-63: Trunk Route No. (2) 05: Interface with BGM Tone Source
CM48	Assign a BGM program number to each trunk number connected to the BGM source. (INITIAL)	• Y=4 (1) 00-09: BGM program No. 0-9 (2) D000-D255: Trunk No. connected to BGM Source
END		

HARDWARE REQUIRED

External BGM Source (Up to 10 BGM Sources can be provided)
COT card or TNT card

BOSS/SECRETARY CALLING

PROGRAMMING

To set up the Secretary station with the D^{term}:

START	DESCRIPTION	DATA
CM13	Assign the Secretary station to the required station number.	• Y=12 (1) X-XXXXXXXX: My Line No. of Secretary (2) 0: Secretary station
	If the Boss station is a Single-Line Telephone with MW lamp, provide the Message Waiting service to the Boss station.	• Y=03 (1) X-XXXXXXXX: Boss Station No. (2) 0: To provide
CM90	Assign the Boss line key as a Secondary Extension line to the Secretary's D^{term}.	• Y=00 (1) My Line No. of Secretary + [,] + Key No. (2) X-XXXXXXXX: Boss Station No. /Boss My Line No.
	Assign the MW SET/MW RESET keys to the Secretary's D^{term}, if needed.	• Y=00 (1) My Line No. of Secretary + [,] + Key No. (2) F0040: MW Set F0041: MW Reset
	If the Boss station is a D^{term}, assign a MW Lamp to the Boss' D^{term}.	• Y=00 (1) My Line No. of Boss + [,] + Key No. (2) F1005: MW Lamp
CM20	Assign the access code for MW Set/MW Reset to the secretary's D^{term}, if required.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A040: MW Set A041: MW Reset
CM08	Whether Message Waiting/Message Reminder is reset (turning the MW Lamp off) irrespective of answering of calling station when the called station calls to retrieve the message.	(1) 234 (2) 0 : Available 1◀: Not available (Reset by answering of calling station)
	Specify the MW Lamp indication pattern for D^{term}.	(1) 294 (2) 0 : Flashing (60 IPM) 1◀: Steady lighting
A		

	DESCRIPTION	DATA
A		
CM51	Assign the destination of the call from the Boss station that has Message Waiting set.	• Y=15 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Secretary Station No.
CM12	To provide Boss/Secretary Override, assign Service Restriction Class A for Call Waiting to the Secretary station.	For Secretary Station: • Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call waiting to the Secretary station in Service Restriction Class A assigned by CM12 Y=02.	• Y=43 Calling Side (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM12	To provide Boss/Secretary Override, assign Service Restriction Class A for Call Waiting to the Boss station.	For Boss Station: • Y=02 (1) X-XXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call waiting to the Boss station in Service Restriction Class A assigned by CM12 Y=02.	• Y=44 Called Side (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
END		

To assign the Boss station as a singleline telephone:

START	DESCRIPTION	DATA
CM12	Set the data for accommodating the Boss' line to the Secretary's Sub line.	• Y=05 (1) X-XXXXXXXX: Boss Station No. (2) 0 : Accommodated 1◀: Not accommodated
CM13	Specify whether to send ringing signal to the Boss station.	• Y=08 (1) X-XXXXXXXX: Boss Station No. (2) 0 : Not sent 1◀: Send
END		

HARDWARE REQUIRED

D^{term} and DLC card

BROKER'S CALL

PROGRAMMING

Refer to CALL HOLD. ☞ *Page 404*

CALL BACK

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with the Single Digit Feature Access Code while the calling station hears ringback tone/busy tone.	(1) 156: Ringback Tone (2) 0: Available (1) 208: Busy Tone (2) 0: Available
	To activate the Single Digit Feature Access Code, set CM08>050, 051, 069 and 148 to "1".	(1) 050: * Button as Switch Hook Flash (2) 1◀: Ineffective (1) 051: # Button as Switch Hook Flash (2) 1◀: Ineffective (1) 069: Single Digit Dialing on BT Connection (2) 1◀: Step Call (1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective
	NOTE 1: *A single digit access code "2" is fixedly assigned to this feature.*	
	NOTE 2: *While the calling D^{term}, DP or DTMF telephone is holding the other call, the single digit access code "2" is not available.*	
	NOTE 3: *From a DTMF telephone a hooking operation is required before dialing the single digit access code.*	
CM12	Assign Service Restriction Class A to the necessary stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
A		

	DESCRIPTION	DATA
A		
CM15	Allow Call Back in Service Restriction Class A assigned by CM12 Y=02.	• Y=03 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
	Allow Call Back-Multiple Assignment in the Service Restriction Class A assigned by CM12 Y=02, if required.	• Y=46 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Back.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*1, #1) (2) A002: Call Back Set A003: Call Back Cancel For setting the same access code as Trunk Queuing-Outgoing: (1) X-XXXX: Access Code (*1, #1) (2) A004: Outgoing Trunk Queuing/Call Back Set A005: Outgoing Trunk Queuing/Call Back Cancel
CM90	Assign a Call Back key to the D^{term}s, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0004: Outgoing Trunk Queuing/Call Back
END		

HARDWARE REQUIRED

D^{term} and DLC card if required

CALL FORWARDING

To set or reset the Call Forwarding service from a MAT/CAT, use the following command.

START	DESCRIPTION	DATA
CME6	Use Y=00-03 for Call Forwarding and Y=04-05 for Split Call Forwarding. To reset the service, assign "CCC" to the second data of each Y No.	• Y=00 Call Forwarding-All Calls • Y=01 Call Forwarding-Busy Line • Y=02 Call Forwarding-No Answer • Y=03 Call Forwarding-Busy Line/No Answer (1) X-XXXXXXXX: Station No. (2) Destination No. <Destination=Extension> X-XXXXXXXX: Station No. <Destination=Outside Party> X-XXXX + [,] + YY···Y X-XXXX: Outgoing Trunk/LCR Group Access Code (1-4 digits) [,] : Separate Mark YY···Y : Called No. (Maximum 26 digits) <Destination=Attendant> E000: Attendant Console • Y=04 Split Call Forwarding-ALL Calls • Y=05 Split Call Forwarding-Busy Line/No Answer (1) X-XXXXXXXX: Station No. (2) 0: Target Station for Split Call Forwarding (Block 0)/ATT 1: Target Station for Split Call Forwarding (Block 1) 2: Target Station for Split Call Forwarding (Block 2) 3: Target Station for Split Call Forwarding (Block 3) 4: Target Station for Split Call Forwarding (Block 4) 5: Target Station for Split Call Forwarding (Block 5) 6: Target Station for Split Call Forwarding (Block 6) 7: Target Station for Split Call Forwarding (Block 7) 8: Target Station for Call Forwarding 9: Station Speed Dialing (Block 0)
END		

ATTENDANT CALL FORWARDING SET-UP AND CANCEL

PROGRAMMING

Refer to CALL FORWARDING-ALL CALLS. ☞ *Page 138*
Refer to CALL FORWARDING-BUSY LINE. ☞ *Page 140*
Refer to CALL FORWARDING-NO ANSWER. ☞ *Page 142*

CALL FORWARDING-ALL CALLS

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding All Calls in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *When providing Call Forwarding-All Calls-Outside, set "1" (Allow) for CM15 Y=00, Y=26.*	• Y=00 Call Forwarding-All Calls • Y=26 Call Forwarding-All Calls-Outside (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Forwarding-All Calls, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*5, #5) (2) A010: Call Forwarding-All Calls Set A011: Call Forwarding-All Calls Cancel
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	• Y=05 (1) 00-63: Trunk Route No. **NOTE** (2) 1◀: Release signal arrives **NOTE**
CM36	**NOTE:** *For Resident System Programming, refer to the Command Manual.*	• Y=0 (1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=05 (2) 0: Allow
A		

A

	DESCRIPTION	DATA
CM08	Specify the setting method for Call Forwarding-All Calls-Outside.	(1) 222 (2) 0 : Setting when the station goes on hook/ when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Assign whether an extension can set a destination of Call Forwarding-All Calls-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed
	Select the trunk route seized for Call Forwarding-All Calls-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
CM90	Assign Call Forwarding-All Calls keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + , + Key No. (2) F0010: Call Forwarding-All Calls Set/ Cancel
CM65	Provide Call Forwarding feature to each tenant as per incoming call type.	• Y=23 Internal Call or ATT assisted Call • Y=24 C.O. Incoming Call • Y=25 Tie Line Incoming Call (1) 00-63: Tenant No. (2) 1◀: Call Forwarding
CM48	Select the Dial Tone on setting Call Forwarding-All Calls.	• Y=2 (1) 13: Dial Tone on setting Call Forwarding-All Calls (2) 0 : Special Dial Tone (Stutter Dial Tone) 1◀: Dial Tone

END

HARDWARE REQUIRED

D^{term} and DLC card if required

CALL FORWARDING-BUSY LINE

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-Busy Line in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *When providing Call Forwarding-Busy Line-Outside, set "1" (Allow) for CM15 Y=11, Y=28, Y=12, Y=29.*	• Y=11 Call Forwarding-Busy Line • Y=28 Call Forwarding-Busy Line-Outside • Y=12 Call Forwarding-Busy Line/No Answer • Y=29 Call Forwarding-Busy Line-Outside/No Answer-Outside (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Forwarding-Busy Line, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*6, #6) (2) A014: Call Forwarding-Busy Line Set A015: Call Forwarding-Busy Line Cancel For setting the same access code as Call Forwarding-No Answer (1) X-XXXX: Access Code (*6, #6) (2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	• Y=05 (1) 00-63: Trunk Route No. **NOTE** (2) 1◀: Release signal arrives **NOTE**
CM36	**NOTE:** *For Resident System Programming, refer to the Command Manual.*	• Y=0 (1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=05 (2) 0: Allow
A		

	DESCRIPTION	DATA
A		
CM08	Specify the setting method for Call Forwarding-Busy Line-Outside.	(1) 222 (2) 0 : Setting when the station goes on hook/ when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Allow or restrict the ability to set Call Forwarding-Busy Line for a station with Do Not Disturb set.	(1) 240 (2) 0 : Allowed 1◀: Restricted
	Assign whether an extension can set a destination of Call Forwarding-Busy Line-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed
	Select the trunk route seized for Call Forwarding-Busy Line-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
CM90	Assign Call Forwarding-Busy Line keys to the D^{term}, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0014: Call Forwarding-Busy Line Set/ Cancel For setting the same key as Call Forwarding-No Answer (1) My Line No. + [,] + Key No. (2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel
CM65	Provide Call Forwarding feature with each tenant as per incoming call type.	• Y=23 Internal Call or ATT assisted Call • Y=24 C.O. Incoming Call • Y=25 Tie Line Incoming Call (1) 00-63: Tenant No. (2) 1◀: Call Forwarding
END		

HARDWARE REQUIRED

D^{term} and DLC card if required

CALL FORWARDING-NO ANSWER

PROGRAMMING

To provide Call Forwarding-No Answer with the timer on a system basis set by MAT/CAT, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-No Answer in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *When providing Call Forwarding-No Answer-Outside, set "1" (Allow) for CM15 Y=10, Y=27, Y=12, Y=29.*	• Y=10 Call Forwarding-No Answer • Y=27 Call Forwarding-No Answer-Outside • Y=12 Call Forwarding-Busy Line/No Answer • Y=29 Call Forwarding-Busy Line-Outside/No Answer-Outside (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Forwarding-No Answer, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*6, #6) (2) A016: Call Forwarding-No Answer Set A017: Call Forwarding-No Answer Cancel For setting the same access code as Call Forwarding-Busy Line (1) X-XXXX: Access Code (*6, #6) (2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel
CM13	Specify the timing of Call Forwarding-No Answer.	• Y=46 (1) X-XXXXXXXX: My Line No. (2) 0 : As per CM41 Y=0>100, 101 or CME6 Y=07, 08 **NOTE** 1◀: As per CM41 Y=0>01, 15
	NOTE: *When CME6 Y=07, 08 are set, the timing on a station basis (CME6 Y=07, 08) is effective. When CME6 Y=07, 08 are not set, the timing on a system basis (CM41 Y=0>100, 101) is effective.* **[Series 3200 R6.2 software required]**	
A		

A

	DESCRIPTION	DATA
CM41	Specify the timing of Call Forwarding-No Answer for a trunk incoming call.	• Y=0 (1) 01 : Timing for a trunk incoming call 100: Timing for a trunk incoming call **[Series 3100 software required]** (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
	Specify the timing of Call Forwarding-No Answer for an internal call or an assisted call.	• Y=0 (1) 15 : Timing for an internal call or an assisted call 101: Timing for an internal call or an assisted call **[Series 3100 software required]** (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	• Y=05 (1) 00-63: Trunk Route No. **NOTE** (2) 1◀: Release signal arrives **NOTE**
CM36	**NOTE:** *For Resident System Programming, refer to the Command Manual.*	• Y=0 (1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=05 (2) 0: Allow
CM08	Specify the setting method for Call Forwarding-No Answer-Outside.	(1) 222 (2) 0 : Setting when the station goes on hook/ when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Assign whether an extension can set a destination of Call Forwarding-No Answer-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed

B

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	DESCRIPTION	DATA
CM08	Select the trunk route seized for Call Forwarding-No Answer-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
CM90	Assign Call Forwarding-No Answer keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0016: Call Forwarding-No Answer Set/Cancel For setting the same key as Call Forwarding-Busy Line (1) My Line No. + [,] + Key No. (2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel
CM65	Provide Call Forwarding feature with each tenant as per incoming call type.	• Y=23 Internal Call or ATT assisted Call • Y=24 C.O. Incoming Call • Y=25 Tie Line Incoming Call (1) 00-63: Tenant No. (2) 1◀: Call Forwarding
CM08	Specify the timing of Call Forwarding-No Answer for a tie line incoming call. **[Series 3200 R6.2 software required]**	(1) 126 (2) 0 : As per timing for internal call or an assisted call 1◀: As per timing for trunk incoming call

NOTE: *The timing for a tie line incoming call is set as following data.*
When CM08>126:0 is set:

2ND DATA OF CM13 Y=46	TIMING FOR TIE LINE INCOMING CALL
0	As per CM41 Y=0>101
1◀	As per CM41 Y=0>15

When CM08>126:1 ◀ is set:

2ND DATA OF CM13 Y=46	TIMING FOR TIE LINE INCOMING CALL
0	As per CM41 Y=0>100
1◀	As per CM41 Y=0>01

END

To provide Call Forwarding-No Answer with the timer on a station basis set by MAT/CAT, do the following programming in addition to the programming for Call Forwarding-No Answer with the timer on a system basis. ☞ *Page 142*

[Series 3200 R6.2 software required]

START	DESCRIPTION	DATA
CM13	Specify the timing of Call Forwarding-No Answer to as per CM41 Y=0>100, 101 or CME6 Y=07, 08.	• Y=46 (1) X-XXXXXXXX: My Line No. (2) 0: As per CM41 Y=0>100, 101 or CME6 Y=07, 08 **NOTE**
	NOTE: *When CME6 Y=07, 08 are set, the timing on a station basis (CME6 Y=07, 08) is effective. When CME6 Y=07, 08 are not set, the timing on a system basis (CM41 Y=0>100, 101) is effective.* **[Series 3200 R6.2 software required]**	
CME6	Specify the timing of Call Forwarding-No Answer for a trunk incoming call.	• Y=07 (1) X-XXXXXXXX: My Line No. (2) 001-120 : 4-120 seconds (4 second increments) NONE◀: As per CM41 Y=0>100
	Specify the timing of Call Forwarding-No Answer for an internal call or an assisted call.	• Y=08 (1) X-XXXXXXXX: My Line No. (2) 001-120 : 4-120 seconds (4 second increments) NONE◀: As per CM41 Y=0>101
A		

A

CM08

END

DESCRIPTION	DATA
Specify the timing of Call Forwarding-No Answer for a tie line incoming call.	(1) 126 (2) 0 : As per timing for internal call or an assisted call 1◀: As per timing for trunk incoming call

NOTE: *The timing for a tie line incoming call is set as following data.*
When CM08>126:0 is set:

2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=08)	TIMING FOR TIE LINE INCOMING CALL
0	Set	As per CME6 Y=08
	Not set	As per CM41 Y=0>101

When CM08>126:1 ◀ is set:

2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=07)	TIMING FOR TIE LINE INCOMING CALL
0	Set	As per CME6 Y=07
	Not set	As per CM41 Y=0>100

HARDWARE REQUIRED

D^{term} and DLC card if required

CALL FORWARDING-DESTINATION

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-Destination in Service Restriction Class A assigned by CM12 Y=02.	• Y=15 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Forwarding-Destination, Entry and Cancellation, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*7, #7) (2) A018: Call Forwarding-Destination Entry A019: Call Forwarding-Destination Cancel
CM90	Assign Call Forwarding-Destination Set/ Cancel Keys to the D^{term}s, as required.	• Y=0 (1) My Line No. + [,] + Key No. (2) F0018: Set F0019: Cancel
END		

CALL FORWARDING-OVERRIDE

PROGRAMMING

To allow the call forward destination station user to call the station which has set Call Forwarding-All Calls, no programming is required.
To allow the call forward destination station user with D^{term} Sub Line to call the station which has set Call Forwarding-All Calls to the My Line of the station, assign the following data.

START	DESCRIPTION	DATA
CM08	Provide Call Forwarding-Override when Call Forwarding-All Calls is set to the My Line of the D^{term}.	(1) 509 (2) 0: Call Forwarding-Override
	Restrict the call termination to the My Line while the station user makes a call with the Sub Line on the D^{term}.	(1) 268 (2) 0: Restricted
END		

HARDWARE REQUIRED

D^{term} and DLC card as required

MULTIPLE CALL FORWARDING-ALL CALLS

MULTIPLE CALL FORWARDING-BUSY LINE

PROGRAMMING

In addition to the programming for Call Forwarding-All Calls/Busy Line, do the following programming.

START	DESCRIPTION	DATA
CM42	Specify the number of times a call can be forwarded.	(1) 14 (2) 01-05 : 1 time-5 times NONE◀: 5 times
END		

MULTIPLE CALL FORWARDING-NO ANSWER

PROGRAMMING

In addition to the programming for Call Forwarding-No Answer, do the following programming.

START	DESCRIPTION	DATA
CM41	Specify the timing for No Answer after second Call Forwarding.	• Y=0 (1) 46 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
END		

SPLIT CALL FORWARDING-ALL CALLS

PROGRAMMING

To activate Split Call Forwarding feature, both Call Forwarding and Split Call Forwarding settings are required.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-All Calls in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *To provide this feature, set "1" (Allow) for CM15 Y=00, Y=26.*	• Y=00 Call Forwarding-All Calls • Y=26 Call Forwarding-All Calls-Outside (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Forwarding-All Calls, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*5, #5) (2) A010: Call Forwarding-All Calls Set A011: Call Forwarding-All Calls Cancel
	Assign the access code for Split Call Forwarding-All Calls, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A180: Split Call Forwarding-All Calls Set A181: Split Call Forwarding-All Calls Cancel
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	• Y=05 (1) 00-63: Trunk Route No. **NOTE** (2) 1◀: Release signal arrives **NOTE**
CM36	**NOTE:** *For Resident System Programming, refer to the Command Manual.*	• Y=0 (1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=05 (2) 0: Allow
A		

A

	DESCRIPTION	DATA
CM08	Specify the setting method for Call Forwarding-All Calls-Outside.	(1) 222 (2) 0 : Setting when the station goes on hook/ when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Assign whether an extension can set a destination of Split Call Forwarding-All Calls-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed
	Select the trunk route seized for Split Call Forwarding-All Calls-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
	Select the Call Forwarding type when an incoming call terminates via CCIS.	(1) 608 (2) 0 : As per CM65 Y=37/38/39 1◀: As per CM65 Y=23/24/25
CM90	Assign Call Forwarding-All Calls keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0010: Call Forwarding-All Calls Set/Cancel
	Assign Split Call Forwarding-All Calls keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0A80: Split Call Forwarding-All Calls Set/Cancel

B

B

	DESCRIPTION	DATA
CM65	Select the feature available in each tenant when an internal call and a Tie Line/C.O. incoming call are terminated.	• Y=23 Internal Call or ATT assisted Call • Y=24 C.O. Incoming Call • Y=25 Tie Line Incoming Call (1) 00-63: Tenant No. (2) 0 : Split Call Forwarding 1◀: Call Forwarding
	Select the feature available in each tenant when an internal call via CCIS and a Tie Line/ C.O. incoming call via CCIS are terminated. **NOTE:** *CM65 Y=37/38/39 is effective only when CM08>608 2nd data=0.*	• Y=37 Internal Call or ATT assisted Call via CCIS • Y=38 C.O. Incoming Call via CCIS • Y=39 Tie Line Incoming Call via CCIS (1) 00-63: Tenant No. (2) 0 : Split Call Forwarding 1◀: Call Forwarding
CM78	Assign the destination of Split Call Forwarding. (See **NOTE** in next page.)	(1) XX Y XX: 00-63: Tenant No. Y : 0-7: Block No. (2) X-XX + [,] + YY···Y X-XX : Trunk Access Code (1-2 digits) YY···Y: Called No. (Maximum 26 digits) X-XXXXXXXX: Station No. (1-8 digits)
CM48	Select the Dial Tone on setting Split Call Forwarding-All Calls.	• Y=2 (1) 13: Dial Tone on setting Split Call Forwarding-All Calls (2) 0 : Special Dial Tone (Stutter Dial Tone) 1◀: Dial Tone

END

NOTE: *The operating procedure for Split Call Forwarding-All Calls is as follows: CM78 is used to assign the destination forwarded when the destination No. 0-7 is specified.*

Dial Access Code for Split Call Forwarding-All Calls.

or

Depress Split Call Forwarding-All Calls key.

+

Dial Destination No. X (0-9).

0: BLOCK No. 0
1: 1
2: 2
3: 3
4: 4
5: 5
6: 6
7: BLOCK No. 7

Destination assigned by CM78.

8: Destination for Call Forwarding-All Calls
9: Destination for Station Speed Dialing (BLOCK No. 0)

HARDWARE REQUIRED

D^{term} with LCD and DLC card, if required

SPLIT CALL FORWARDING-BUSY LINE

PROGRAMMING

To activate Split Call Forwarding feature, both Call Forwarding and Split Call Forwarding settings are required.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-Busy Line in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *To provide this feature, set "1" (Allow) for CM15 Y=11, Y=28, Y=12, Y=29.*	• Y=11 Call Forwarding-Busy Line • Y=28 Call Forwarding-Busy Line-Outside • Y=12 Call Forwarding-Busy Line/No Answer • Y=29 Call Forwarding-Busy Line-Outside/No Answer-Outside (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Forwarding-Busy Line, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*6, #6) (2) A014: Call Forwarding-Busy Line Set A015: Call Forwarding-Busy Line Cancel For setting the same access code as Call Forwarding-No Answer (1) X-XXXX: Access Code (*6, #6) (2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel
	Assign the access code for Split Call Forwarding-Busy Line, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A182: Split Call Forwarding-Busy Line/No Answer Set A183: Split Call Forwarding-Busy Line/No Answer Cancel
A		

A

	DESCRIPTION	DATA
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	• Y=05 (1) 00-63: Trunk Route No. **NOTE** (2) 1◀: Release signal arrives **NOTE**
CM36	**NOTE:** *For Resident System Programming, refer to the Command Manual.*	• Y=0 (1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=05 (2) 0: Allow
CM08	Specify the setting method for Call Forwarding-Busy Line-Outside.	(1) 222 (2) 0 : Setting when the station goes on hook/ when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Allow or restrict the ability to set Call Forwarding-Busy Line for a station with Do Not Disturb set.	(1) 240 (2) 0 : Allowed 1◀: Restricted
	Assign whether an extension can set a destination of Split Call Forwarding-Busy Line-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed
	Select the trunk route seized for Split Call Forwarding-Busy Line-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
	Select the Call Forwarding type when an incoming call terminates via CCIS.	(1) 608 (2) 0 : As per CM65 Y=37/38/39 1◀: As per CM65 Y=23/24/25

B

B

	DESCRIPTION	DATA
CM90	Assign Call Forwarding-Busy Line keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + , + Key No. (2) F0014: Call Forwarding-Busy Line Set/Cancel For setting the same key as Call Forwarding-No Answer (1) My Line No. + , + Key No. (2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel
	Assign Split Call Forwarding-Busy Line keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + , + Key No. (2) F0A82: Split Call Forwarding-Busy Line/No Answer Set/Cancel
CM65	Select the feature available in each tenant when an internal call and a Tie Line/C.O. incoming call are terminated.	• Y=23 Internal Call or ATT assisted Call • Y=24 C.O. Incoming Call • Y=25 Tie Line Incoming Call (1) 00-63: Tenant No. (2) 0 : Split Call Forwarding 1◀: Call Forwarding
	Select the feature available in each tenant when an internal call via CCIS and a Tie Line/C.O. incoming call via CCIS are terminated. **NOTE:** *CM65 Y=37/38/39 is effective only when CM08>608 2nd data=0.*	• Y=37 Internal Call or ATT assisted Call via CCIS • Y=38 C.O. Incoming Call via CCIS • Y=39 Tie Line Incoming Call via CCIS (1) 00-63: Tenant No. (2) 0 : Split Call Forwarding 1◀: Call Forwarding
CM78	Assign the destination of Split Call Forwarding. (See **NOTE** in next page.)	(1) XX Y XX: 00-63: Tenant No. Y : 0-7: Block No. (2) X-XX + , + YY···Y X-XX : Trunk Access Code (1-2 digits) YY···Y: Called No. (Maximum 26 digits) X-XXXXXXXX: Station No. (1-8 digits)

END

NOTE: *The operating procedure for Split Call Forwarding-Busy Line/No Answer is as follows: CM78 is used to assign the destination forwarded when the destination No. 0-7 is specified.*

Dial Access Code for Split Call Forwarding-Busy Line/No Answer.

or

Depress Split Call Forwarding-Busy Line/No Answer key.

\+

Dial Destination No. X (0-9).

0: BLOCK No. 0
1: 1
2: 2
3: 3
4: 4
5: 5
6: 6
7: BLOCK No. 7

Destination assigned by CM78.

8: Destination for Call Forwarding-Busy Line/ No Answer

9: Destination for Station Speed Dialing (BLOCK No. 0)

HARDWARE REQUIRED

D^{term} with LCD and DLC card, if required

SPLIT CALL FORWARDING-NO ANSWER

PROGRAMMING

To activate Split Call Forwarding feature, both Call Forwarding and Split Call Forwarding settings are required. For Split Call Forwarding-No Answer with the timer on a system basis set by MAT/CAT, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-No Answer in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *To provide this feature, set "1" (Allow) for CM15 Y=10, Y=27, Y=12, Y=29.*	• Y=10 Call Forwarding-No Answer • Y=27 Call Forwarding-No Answer-Outside • Y=12 Call Forwarding-Busy Line/No Answer • Y=29 Call Forwarding-Busy Line-Outside/No Answer-Outside (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Forwarding-No Answer, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*6, #6) (2) A016: Call Forwarding-No Answer Set A017: Call Forwarding-No Answer Cancel For setting the same access code as Call Forwarding-Busy Line (1) X-XXXX: Access Code (*6, #6) (2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel
	Assign the access code for Split Call Forwarding-No Answer, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A182: Split Call Forwarding-Busy Line/No Answer Set A183: Split Call Forwarding-Busy Line/No Answer Cancel
A		

A

	DESCRIPTION	DATA
CM13	Specify the timing of Call Forwarding-No Answer.	• Y=46 (1) X-XXXXXXXX: My Line No. (2) 0 : As per CM41 Y=0>100, 101 or CME6 Y=07, 08 **NOTE** 1◀: As per CM41 Y=0>01, 15
	NOTE: *When CME6 Y=07, 08 are set, the timing on a station basis (CME6 Y=07, 08) is effective. When CME6 Y=07, 08 are not set, the timing on a system basis (CM41 Y=0>100, 101) is effective.* **[Series 3200 R6.2 software required]**	
CM41	Specify the timing of Call Forwarding-No Answer for a trunk incoming call.	• Y=0 (1) 01 : Timing for a trunk incoming call 100: Timing for a trunk incoming call **[Series 3100 software required]** (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
	Specify the timing of Call Forwarding-No Answer for an internal call or an assisted call.	• Y=0 (1) 15 : Timing for an internal call or an assisted call 101: Timing for an internal call or an assisted call **[Series 3100 software required]** (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	• Y=05 (1) 00-63: Trunk Route No. **NOTE** (2) 1◀: Release signal arrives **NOTE**
CM36	**NOTE:** *For Resident System Programming, refer to the Command Manual.*	• Y=0 (1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=05 (2) 0: Allow

B

B

	DESCRIPTION	DATA
CM08	Specify the setting method for Call Forwarding-No Answer-Outside.	(1) 222 (2) 0 : Setting when the station goes on hook/ when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Assign whether an extension can set a destination of Split Call Forwarding-No Answer-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed
	Select the trunk route seized for Split Call Forwarding-No Answer-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
	Select the Call Forwarding type when an incoming call terminates via CCIS.	(1) 608 (2) 0 : As per CM65 Y=37/38/39 1◀: As per CM65 Y=23/24/25
CM90	Assign Call Forwarding-No Answer keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0016: Call Forwarding-No Answer Set/ Cancel For setting the same key as Call Forwarding-Busy Line. (1) My Line No. + [,] + Key No. (2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel
	Assign Split Call Forwarding-No Answer keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0A82: Split Call Forwarding-Busy Line/ No Answer Set/Cancel
CM65	Select the feature available in each tenant when an internal call and a Tie Line/C.O. incoming call are terminated.	• Y=23 Internal Call or ATT assisted Call • Y=24 C.O. Incoming Call • Y=25 Tie Line Incoming Call (1) 00-63: Tenant No. (2) 0 : Split Call Forwarding 1◀: Call Forwarding

C

C

	DESCRIPTION	DATA
CM65	Select the feature available in each tenant when an internal call via CCIS and a Tie Line/ C.O. incoming call via CCIS are terminated. **NOTE:** *CM65 Y=37/38/39 is effective only when CM08>608 2nd data=0.*	• Y=37 Internal Call or ATT assisted Call via CCIS • Y=38 C.O. Incoming Call via CCIS • Y=39 Tie Line Incoming Call via CCIS (1) 00-63: Tenant No. (2) 0 : Split Call Forwarding 1◀: Call Forwarding
CM08	Specify the timing of Call Forwarding-No Answer for a tie line incoming call. **[Series 3200 R6.2 software required]**	(1) 126 (2) 0 : As per timing for internal call or an assisted call 1◀: As per timing for trunk incoming call

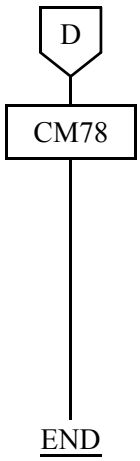
NOTE: *The timing for a tie line incoming call is set as following data.*
When CM08>126:0 is set:

2ND DATA OF CM13 Y=46	TIMING FOR TIE LINE INCOMING CALL
0	As per CM41 Y=0>101
1◀	As per CM41 Y=0>15

When CM08>126:1 ◀ is set:

2ND DATA OF CM13 Y=46	TIMING FOR TIE LINE INCOMING CALL
0	As per CM41 Y=0>100
1◀	As per CM41 Y=0>01

D



DESCRIPTION	DATA
Assign the destination of Split Call Forwarding. (See **NOTE** below.)	(1) XX Y XX: 00-63: Tenant No. Y : 0-7: Block No. (2) X-XX + [,] + YY···Y X-XX : Trunk Access Code (1-2 digits) YY···Y: Called No. (Maximum 26 digits) X-XXXXXXXX: Station No. (1-8 digits)

NOTE: *The operating procedure for Split Call Forwarding-Busy Line/No Answer is as follows: CM78 is used to assign the destination forwarded when the destination No. 0-7 is specified.*

Dial Access Code for Split Call Forwarding-Busy Line/No Answer.

or

Depress Split Call Forwarding-Busy Line/No Answer key.

\+

Dial Destination No. X (0-9).

0: BLOCK No. 0
1: 1
2: 2
3: 3
4: 4
5: 5
6: 6
7: BLOCK No. 7

Destination assigned by CM78.

8: Destination for Call Forwarding-Busy Line/No Answer
9: Destination for Station Speed Dialing (BLOCK No. 0)

For Split Call Forwarding-No Answer with the timer on a station basis set by MAT/CAT, do the following programming in addition to the programming for Split Call Forwarding-No Answer with the timer on a system basis. ☞ *Page 158*

[Series 3200 R6.2 software required]

START	DESCRIPTION	DATA
CM13	Specify the timing of Call Forwarding-No Answer to as per CM41 Y=0>100, 101 or CME6 Y=07, 08.	• Y=46 (1) X-XXXXXXXX: My Line No. (2) 0: As per CM41 Y=0>100, 101 or CME6 Y=07, 08 **NOTE**
	NOTE: *When CME6 Y=07, 08 are set, the timing on a station basis (CME6 Y=07, 08) is effective. When CME6 Y=07, 08 are not set, the timing on a system basis (CM41 Y=0>100, 101) is effective.* **[Series 3200 R6.2 software required]**	
CME6	Specify the timing of Call Forwarding-No Answer for a trunk incoming call.	• Y=07 (1) X-XXXXXXXX: My Line No. (2) 001-120 : 4-120 seconds (4 second increments) NONE◀: As per CM41 Y=0>100
	Specify the timing of Call Forwarding-No Answer for an internal call or an assisted call.	• Y=08 (1) X-XXXXXXXX: My Line No. (2) 001-120 : 4-120 seconds (4 second increments) NONE◀: As per CM41 Y=0>101
A		

A

CM08

END

DESCRIPTION	DATA
Specify the timing of Call Forwarding-No Answer for a tie line incoming call.	(1) 126 (2) 0 : As per timing for internal call or an assisted call 1◀: As per timing for trunk incoming call

NOTE: *The timing for a tie line incoming call is set as following data.*
When CM08>126:0 is set:

2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=08)	TIMING FOR TIE LINE INCOMING CALL
0	Set	As per CME6 Y=08
	Not set	As per CM41 Y=0>101

When CM08>126:1 ◀ is set:

2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=07)	TIMING FOR TIE LINE INCOMING CALL
0	Set	As per CME6 Y=07
	Not set	As per CM41 Y=0>100

HARDWARE REQUIRED

D^{term} with LCD and DLC card, if required

GROUP DIVERSION

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Group Diversion.	(1) 026: Group Diversion (2) 0: To provide
CM16	Assign the members to be included in each Group Diversion group.	• Y=2 Group Diversion group (1) X-XXXXXXXX: Station No. to be included in a Group Diversion group (2) 00-30: Group Diversion group No.
CM19	Assign the destination for each Group Diversion group to the required stations.	• Y=6 (1) 00-30: Group Diversion group No. (2) X-XXXXXXXX: Diversion group No.
CM41	Assign the timing for transferring a call using this feature.	• Y=0 (1) 01 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
END		

NOTE: *The number of stations that can be included in a Group Diversion is unlimited.*

CALL PARK

CALL PARK-SYSTEM

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify whether a trunk line placed on Consultation Hold by Call Park-System can be retrieved by pressing a trunk line appearance key on a D^{term}.	(1) 133 (2) 0 : Not available 1◀: Available
CM12	Assign Service Restriction Class C to each station.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Assign the type of D^{term} to Service Restriction Class C assigned by CM12 Y=07.	• Y=96 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 1◀: With LCD
CM41	Specify the recall timing for the Call Park-System.	• Y=0 (1) 05 (2) 01-98: 4-392 seconds (4 second increments) 99 : Recall is not performed If no data is set, the default setting is 60-64 seconds.

A — To provide Call Park-System with dialing a Park number

B — To provide Call Park-System with dialing a station number

To provide Call Park-System with dialing a Park number

	DESCRIPTION	DATA
A		
CM20	Assign the access code for Call Park-System set and retrieve.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A008: Call Park-System Set A009: Call Park-System Retrieve
CM90	Assign a Call Park-System key to the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F5000: Call Park-System
	Assign a Call Park-System key to DESKCON, if required.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6144: Call Park-System
END		

To provide Call Park-System with dialing a station number

	DESCRIPTION	DATA
B		
CM20	Assign the access code for Call Park-System Set which retrieved by dialing station number/ Retrieve by dialing station number.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A198: Call Park-System Set which retrieved by dialing station number A199: Call Park-System Retrieve by dialing station number
CM90	Assign a function key for Call Park-System which retrieved by dialing station number to the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0A98: Call Park-System Set which retrieved by dialing station number
END		

HARDWARE REQUIRED

D^{term} and DLC card as required

CALL PARK-TENANT

PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign access codes for Call Park-Tenant set/ retrieve.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A062: Call Park-Tenant Set/Retrieve
CM08	Specify whether a trunk line placed on Consultation Hold by Call Park-Tenant can be retrieved by pressing a trunk line appearance key on a D^{term}.	(1) 133 (2) 0 : Not available 1◀: Available
CM41	Specify the recall timing for Call Park-Tenant.	• Y=0 (1) 05 (2) 01-98: 4-392 seconds (4 second increments) 99 : Recall is not performed If no data is set, the default setting is 60-64 seconds.
CM90	Assign Call Park-Tenant Retrieve keys to the D^{term}, as required.	• Y=00 (1) My Line No. + , + Key No. (2) F3XX Z XX: 00-63: Group No. Z : 1-8: Serial No.
END		

HARDWARE REQUIRED

D^{term} and DLC card if required

CALL PICKUP

CALL PICKUP-DIRECT

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Pickup-Direct in the Service Restriction Class A assigned by CM12 Y=02.	• Y=14 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign an access code for Call Pickup-Direct.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A021: Call Pickup-Direct
CM90	Assign a Call Pickup-Direct key to D^{term}, if required.	• Y=00 (1) My Line No. + , + Key No. (2) F0021: Call Pickup-Direct
END		

CALL PICKUP-GROUP

PROGRAMMING

START	DESCRIPTION	DATA
CM16	Assign each Call Pickup group, by assigning station numbers within a group one by one with the following operation: 1st Operation : (1) Station A (2) Station B 2nd Operation : (1) Station B (2) Station C ≀ ≀ Last Operation: (1) Station X (2) Station A	• Y=0 (1) X-XXXXXXXX: Station No. to be included in the Call Pickup group (2) X-XXXXXXXX: Another Station No. to be included in the same group
CM20	Assign the access code for Call Pickup-Group.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A020: Call Pickup-Group
CM90	Assign a Call Pickup-Group key to each D^{term}, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0020: Call Pickup-Group
END		

NOTE 1: *There is no limit to the amount of Call Pickup groups.*

NOTE 2: *The maximum number of stations within a group is 60. Individual stations can be assigned to only one Call Pickup group.*

To permit a station within the Call Pickup group to answer the calls to other lines, in the order from a specified pilot station (ringing search start position):

START	DESCRIPTION	DATA
CM16	Assign each Call Pickup group, by assigning station numbers within a group one by one with the following operation: 1st Operation : (1) Station A (2) Station B 2nd Operation : (1) Station B (2) Station C ≀ ≀ Last Operation: (1) Station X (2) Station A	• Y=0 (1) X-XXXXXXXX: Station No. to be included in the Call Pickup group (2) X-XXXXXXXX: Another Station No. to be included in the same group
	Specify a pilot station in Call Pickup group.	• Y=8 (1) X-XXXXXXXX: Station No. to be included in the Call Pickup group (2) 0 : Pilot Station 1◀: Member Station
CM20	Assign the access code for Call Pickup-Group (Pilot).	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A234: Call Pickup-Group (Pilot)
CM90	Assign a Call Pickup-Group key to each D^{term}, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0B34: Call Pickup-Group (Pilot)
END		

NOTE 1: *There is no limit to the amount of Call Pickup groups.*

NOTE 2: *The maximum number of stations within a group is 60. Individual stations can be assigned to only one Call Pickup group.*

HARDWARE REQUIRED

D^{term} and DLC card as required

CALL PICKUP-DESIGNATED GROUP

PROGRAMMING

START	DESCRIPTION	DATA
CM16	Assign each Call Pickup group, by assigning station numbers within a group one by one with the following operation: 1st Operation : (1) Station A (2) Station B 2nd Operation : (1) Station B (2) Station C ≀ ≀ Last Operation: (1) Station X (2) Station A	• Y=0 (1) X-XXXXXXXX: Station No. to be included in the Call Pickup Group (2) X-XXXXXXXX: Another station No. to be included in the same Call Pickup Group
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Pickup-Direct in Service Restriction Class A assigned by CM12 Y=02.	• Y=14 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign an access code for Call Pickup-Designated Group.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A037: Call Pickup-Designated Group
END		

NOTE 1: *There is no limit to the amount of Call Pickup groups.*

NOTE 2: *The maximum number of stations within a group is 60. Individual station can be assigned to only one Call Pickup Group.*

CALL REDIRECT

PROGRAMMING

START	DESCRIPTION	DATA
CM90	Provide the D^{term} with a Call Redirect key for transferring a call to a destination station or VMS.	• Y=00 (1) My Line No. + [,] + Key No. (2) F5011: Call Redirect 0 (For transferring to a station assigned by CM51 Y=22) F5012: Call Redirect 1 (For transferring to a VMS assigned by CM51 Y=18)
CM51	Specify the destination VMS station of Call Redirect, to each tenant.	• Y=18 (1) 00-63: Tenant No. (2) X-XXXXXXXX: VMS Station No.
	Specify the destination station of Call Redirect, to each tenant.	• Y=22 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
END		

CALL TRANSFER

CALL TRANSFER-ALL CALLS

PROGRAMMING

START

	DESCRIPTION	DATA
CM08	Specify Call Transfer from a station before called station answers.	(1) 062 (2) 0 : Not available 1◀: Available
CM41	Specify the duration of sending SPDT after a hooking operation for Call Transfer. **[Series 3600 software required]**	• Y=0 (1) 105 (2) 10-60 : 10-60 seconds (1 second increments) NONE◀: 15 seconds

A

To specify the system operation after the C.O./Tie line call (via TRK-B) is completed, when a station that has a C.O./Tie line call (via TRK-A) on Consultation Hold is talking with another C.O./Tie line call (via TRK-B):

[Series 3300 software required]

A

	DESCRIPTION	DATA
CM08	When a station that has a C.O./Tie line call (via TRK-A) on Consultation Hold is talking with another C.O./Tie line call (via TRK-B), specify the system operation after the C.O./Tie line call (via TRK-B) is completed.	(1) 534 (2) 0 : Return to the original call (via TRK-A) 1◀: ROT

END

CALL TRANSFER-ATTENDANT

PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the Access code for operator calls.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (0) (2) 800
CM62	Specify the tenants to be handled by each ATT Group. (INITIAL)	• Y=0-3 ATT Group 0-3 assigned by CM60 Y=00 (1) 00-63: Tenant No. (2) 0: To be handled
CM08	Specify Call Transfer from a station before the called attendant answers.	(1) 063 (2) 0 : Available 1◀: Not available
END		

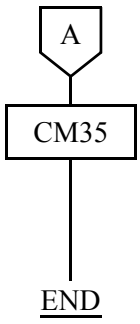
CALLER ID CLASS

PROGRAMMING

(1) Trunk Assignment for CALLER ID CLASS

NOTE: *The following data assignment is required when using PN-4RSTC-A/PN-4RSTC.*

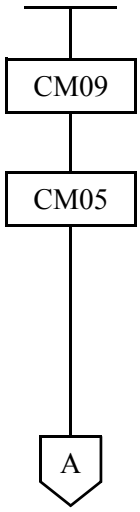
START	DESCRIPTION	DATA
CM30	Specify the Terminating System in Day Mode/ Night Mode/Mode A/Mode B for incoming calls.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. (2) 02 : Trunk-Direct Appearances 03 : Trunk-Direct Appearances + TAS 04 : Direct-In Termination 08 : Dial-in 09 : Automated Attendant 10 : Attendant Console + TAS 11 : Attendant Console + Trunk-Direct Appearances 12 : Attendant Console + Trunk-Direct Appearances + TAS 13 : TAS 14 : Attendant Console 16 : DISA 18 : ISDN Indial 31◀: DID, Tie Line and any call which is not handled by the PBX
CM35	Assign the type of the trunk route.	• Y=00 Kind of Trunk Route (1) 00-63: Trunk Route No. (2) 00: DDD (C.O./DID) trunk
	Provide the trunk route with MF Signaling.	• Y=37 MF Signaling (1) 00-63: Trunk Route No. (2) 0: Available
	Specify the busy/idle status not to be sent to the network.	• Y=48 Busy/Idle Sending (1) 00-63: Trunk Route No. (2) 0: Not sent
A		



DESCRIPTION	DATA
Assign the sending method of calling number from the network, to each trunk route.	• Y=129 Calling No. Sending Method (1) 00-63: Trunk Route No. (2) 0: CALLER ID (CLASS SM) 1: T1-ANI

(2) CALLER ID Receiver Assignment

NOTE: *The following data assignment is required when using PN-4RSTC-A/PN-4RSTC.*



DESCRIPTION	DATA
Provide the system with MF Signaling. INITIAL	(1) 52: MF Signaling (2) 0◀: To provide
Assign an AP number to the CIR (CALLER ID Receiver) Trunk. INITIAL The AP number is given by the SENSE switch on the CIR Trunk.	• Y=0 (1) 04-15, 64-93: AP No. (2) 08: CIR Trunk (4RSTC-A/4RSTC card)

A

	DESCRIPTION	DATA
CM05	Assign an Remote Site number that accommodates CIR trunk to the AP number assigned by CM05 Y=0. INITIAL	• Y=8 (1) 04-15, 64-93: AP No. (2) XX 99 XX: 01-30: Remote Site No. XX 9915 **NOTE 2** **[Series 3800 software required]** XX : 01-30: Remote Site No. **NOTE 3** 99 : AP card No. NONE◀: No data

NOTE 1: *This data should be assigned only when PN-4RSTC-A card is accommodated in Remote site.*

NOTE 2: *All the SENSE switch on PN-4RSTC-A card should be assigned to 15 when AP No. 64-93 is assigned for PN-4RSTC-A card accommodated in Remote site.*
Assign any one number from AP numbers 64-93 with CM05 per PN-4RSTC-A card (same even if the site that accommodates the PN-4RSTC-A cards is different).

NOTE 3: *The Remote site number 01-15 can be assigned when the system is using Series 3200 R6.2 to 3300 software.*

	Specify the type of the mounting card for Remote Site to the AP number assigned by CM05 Y=0. INITIAL	• Y=6 (1) 04-15, 64-93: AP No. (2) 1 : Remote Site 3◀: AP card

NOTE: *Set the second data to 1 only when the AP number is assigned by CM05 Y=0 which is accommodated in Remote site.*

CM06	Assign the MF Receiver trunk number to each circuit of the CIR Trunk. INITIAL	• Y=04 (1) 00-15: MF Receiver Trunk No. (2) XX Z XX: AP No. assigned by CM05 Z : 0-3: Circuit No.
CM08	Assign requesting of ANI/CALLER ID Signal from network when an incoming call terminates.	(1) 472: Request for ANI/CALLER ID Signal (2) 0: Available

B

	DESCRIPTION	DATA
B		
CMAA	Assign the sending method of calling number from the network, to the AP number assigned by CM05.	• Y=07 (1) 04-15, 64-93: AP No. (2) 0 : CALLER ID (CLASS SM) 7◀: MFC-R2
CM31	Assign the CALLER ID Receiver to each AP number (0-3) of the CIR Trunk. (INITIAL)	• Y=2 (1) 0-3: AP No. **NOTE** (2) 3◀: All circuits assigned as Receiver
END		

NOTE: *AP numbers 0-3 correspond to the AP numbers assigned by CM05 (04-15):*

CM31 Y=2	*CM05 Y=0*
AP Number 0:	*AP Number X*
AP Number 1:	*AP Number Y*
AP Number 2:	*AP Number Z*
AP Number 3:	*AP Number W*

(X<Y<Z<W)

(3) Memory Clear for CIR Trunk (PN-4RSTC)

Clearing all data in memory for calling number development is necessary before assigning the calling number development data by CMDC and CMDB.

NOTE 1: *The following data assignment is required only when using PN-4RSTC as a CIR Trunk.*

NOTE 2: *Before memory clear, set the SW1-1 to SW1-4 on the CIR Trunk to all ON (Make-busy) and after memory clear, restore them to OFF.*

	DESCRIPTION	DATA
START		
CMDB	Clear all memory for CMDC and CMDB.	• Y=90 All Memory Clear (1) 0000 (2) CCC
END		

If required, clear the partial memory using the commands shown below.

NOTE 1: *The following data assignment is required only when using PN-4RSTC as a CIR Trunk.*
NOTE 2: *Before memory clear, set the SW1-1 to SW1-4 on the CIR Trunk to all ON (Make-busy) and after memory clear, restore them to OFF.*

START	DESCRIPTION	DATA
CMDB	Clear the memory for the calling number Development Table number assigned by CMDC and the calling number development data assigned by CMDB.	• Y=91 Partial Memory Clear (1) 0001 (2) CCC
	Clear the memory for calling number development data assigned by CMDB.	• Y=92 Partial Memory Clear (1) 0002 (2) CCC
END		

(4) CALLER ID Development Data Assignment

NOTE: *The following data assignment is required only when using PN-4RSTC as a CIR Trunk.*

START	DESCRIPTION	DATA
CMDC	Assign the Development Table for the calling number sent from the network.	• Y=00-63 Trunk Tenant No. (1) Calling No. (2) 0◀-1499: Development Table No. 0-1499
CMDB	Assign whether the Trunk Tenant number is effective for developing the calling number, or not.	• Y=30 (1) 0: Trunk Tenant No. Development (2) 0◀: Ignore actual Trunk Tenant and use the Development Table for Trunk Tenant 00 (CMDC Y=00) 1 : Execute actual Trunk Tenant and use the Development Table for each Trunk Tenant (CMDC Y=00-63)
	By character code, assign the name displayed, if required. A maximum of 14 characters are available for the name display.	• Y=00 Name Assignment (1) 0-1499: Development Table No. (2) Character Code See APPENDIX B: Character Code Table. ☞ Page B2
A		

A

CMDB

DESCRIPTION	DATA
Assign the destination station for Day Mode/ Night Mode, if required. A maximum of 12 digits are available.	• Y=01 Day Mode • Y=02 Night Mode (1) 0-1499: Development Table No. (2) Destination Station No. (Maximum 12 digits)
NOTE: *If assigning the destination station number as below, the terminating system overrides CM30 Y=02/03 for the selected Development Table.* * * * * 0 2: Trunk-Direct Appearances * * * * 0 3: Trunk-Direct Appearances + TAS * * * * 0 4: Direct-in Termination * * * * 0 9: Automated Attendant * * * * 1 0: Attendant Console + TAS * * * * 1 1: Attendant Console + Trunk-Direct Appearances * * * * 1 2: Attendant Console + Trunk-Direct Appearances + TAS * * * * 1 4: Termination to Attendant Console * * * * 1 6: Direct Inward System Access (DISA) * * * * 3 1: DID, Tie Line, and any call which is not handled by the PBX	
NOTE: *The destination station number can also be an LCR access code plus outside telephone number.*	
Specify the ringing tone for each calling number, if required.	• Y=04 Ringing Tone Assignment (1) 0-1499: Development Table No. (2) 0◀: Depends on CM35 Y=33 1 : Not used 2 : Internal Ringing Tone 3 : External Ringing Tone
Specify which is displayed on the LCD, when receiving both the calling number and the name from network on incoming call.	• Y=05 Calling Number/Name Display (1) 0-1499: Development Table No. (2) 0◀: Calling Number Display 1 : Calling Name Display
Specify whether the Call Waiting is set for each calling number or not.	• Y=06 Call Waiting (1) 0-1499: Development Table No. (2) 0◀: Not available 1 : Available **NOTE:** *This data is effective when the 2nd data of CM35 Y=59 is 1.*

B

	DESCRIPTION	DATA
B		
CMDB	Specify whether the UCD Priority Queuing is set for each calling number or not.	• Y=07 UCD Priority Queuing (1) 0-1499: Development Table No. (2) 0◀: Not priority 1 : Priority
	Specify the priority for calling name display.	• Y=12 Priority for Name Display (1) 0-1499: Development Table No. (2) 0◀: Name received from network is displayed 1 : Name assigned by CMDB Y=00 is displayed
END		

(5) Other Relational Data Assignment

START	DESCRIPTION	DATA
CM35	Assign the trunk access code for outgoing call sent to the SMDR. For using Save & Repeat feature, this Trunk Access Code will be saved and sent with the calling number.	• Y=44 Trunk Access Code for Save & Repeat (1) 00-63: Trunk Route No. (2) 0-9/00-99: Trunk Access Code
CM08	Specify whether the calling number is sent to the OAI terminal or not.	(1) 462: Sending to OAI terminal (2) 0 : To send 1◀: Not sent
	Specify whether the calling number is sent to the SMDR terminal or not.	(1) 463: Sending to SMDR terminal (2) 0 : To send 1◀: Not sent
A		

	DESCRIPTION	DATA
A		
CM08	Specify the type of Single Data Message Frame Format. **[Series 3400 R9.1 software required]** (CIR INITIAL) **NOTE:** *This is required when using PN-4RSTC-A.*	(1) 489: Single Data Message Frame Format (2) 0 : Without Time Parameter 1◀: With Time Parameter
CMDB	Specify the type of Single Data Message Frame Format. **NOTE:** *This is required when using PN-4RSTC.*	• Y=30 (1) 1: Single Data Message Frame Format (2) 0◀: With Time Parameter 1 : Without Time Parameter
CMD000	Send ANI/Caller ID to SMDR. **NOTE 1:** *This is required when using AP00 card for SMDR.*	(1) 143: Sending to SMDR terminal (2) 0◀: Not sent 1 : To send **NOTE 2:** *When 0 is set, the ANI is not sent to the SMDR, but area code for calling party, area code for called party; authorization code is sent to the SMDR.*
CM90	Provide the D^{term} with a select key of Calling Number Display or Calling Name Display.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1099: Select Key of Calling Number Display or Calling Name Display
	Provide the DESKCON with a select key of Calling Number Display or Calling Name Display.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6122: Select Key of Calling Number Display or Calling Name Display
END		

(6) Data Assignment for multiple CIR Trunk (PN-4RSTC)

NOTE: *The following procedure is required only when using PN-4RSTC as CIR Trunks.*

The development data by CMDC and CMDB are assigned toward the first CIR Trunk which has been assigned a minimum AP number. When providing multiple CIR Trunks, save the development data and load them for the other CIR Trunks according to the following steps.
For detail of MAT Load/Save operations, refer to the Maintenance Manual.

STEP1: After assignment of CMDC and CMDB, save the office data by MAT.
At this time, specify the AREA Number including the MEMORY ADDRESS 00900-2FFFF.

STEP2: Set the MB switch to ON (UP) on the first CIR Trunk with minimum AP number X.

AP Number X< Y< Z< W

STEP3: As for the second CIR Trunk, change the AP number Y to X by CM05 and by the SENSE switch.

STEP4: Set the SW1-1 through SW1-4 to ON on the second CIR Trunk.
Clear the memory for CMDC and CMDB by CMDB Y=90.
Set the SW1-1 through SW1-4 to OFF on the second CIR Trunk.

STEP5: Load the office data saved in STEP1 by MAT.

STEP6: As for the second CIR Trunk, restore the AP number X to Y by CM05 and by the SENSE switch.

Jump to STEP17 if no more CIR Trunks are provided.

STEP7: Set the MB switch to ON (UP) on the second CIR Trunk with AP number Y.

STEP8: As for the third CIR Trunk, change the AP number Z to X by CM05 and by the SENSE switch.

STEP9: Set the SW1-1 through SW1-4 to ON on the third CIR Trunk.
Clear the memory for CMDC and CMDB by CMDB Y=90.
Set the SW1-1 through SW1-4 to OFF on the third CIR Trunk.

STEP10: Load the office data saved in STEP1 by MAT.

STEP11: As for the third CIR Trunk, restore the AP number X to Z by CM05 and by the SENSE switch.

Jump to STEP17 if no more CIR Trunks are provided.

STEP12: Set the MB switch to ON (UP) on the third CIR Trunk with AP number Z.

STEP13: As for the fourth CIR Trunk, change the AP number W to X by CM05 and by the SENSE switch.

STEP14: Set the SW1-1 through SW1-4 to ON on the fourth CIR Trunk.
Clear the memory for CMDC and CMDB by CMDB Y=90.
Set the SW1-1 through SW1-4 to OFF on the fourth CIR Trunk.

STEP15: Load the office data saved in STEP1 by MAT.

STEP16: As for the fourth CIR Trunk, restore the AP number X to W by CM05 and by the SENSE switch.

STEP17: Set the MB switches to OFF (DOWN) on all the CIR Trunks.

HARDWARE REQUIRED

COT card (4COTG/8COTQ)
CIR card (4RSTC-A/4RSTC)

CALLER ID DISPLAY

PROGRAMMING

In addition to Automatic Number Identification (ANI) or Caller ID Class, assign the following data.

START	DESCRIPTION	DATA
CM08	Specify the duration of displaying the name when the incoming call is answered/the select key for Calling Number Display and Calling Name Display or CID key is pressed. **[Series 3300 software required]**	(1) 537 (2) 0 : Until call is finished/key is pressed again 1◀: 6 seconds
CM90	Provide the D^{term} with a Caller ID Display key for displaying the ANI or Caller ID.	• Y=00 (1) My Line No. + [,] + Key No. (2) F5010: Caller ID Display
END		

To store the calling party name list in the MP card and display the name on D^{term} for incoming trunk calls, do the following programming.

NOTE: *This programming is effective only when the caller ID (name) is not stored in the CIR card by CMDB or a calling party name is not received from network.*

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Calling Name Display for incoming trunk calls in Service Restriction Class A assigned by CM12 Y=02.	• Y=136 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Calling Number Display 1◀: Calling Name Display
CM35	Provide the trunk route with Calling Name Display for incoming calls.	• Y=156 (1) 00-63: Trunk Route No. (2) 0 : 1000-Slot Memory Block No. 3 1 : 1000-Slot Memory Block No. 2, 3 3◀: Not provided
A		

A

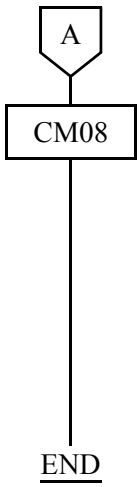
	DESCRIPTION	DATA
CM74	Assign the calling party number, which is used for Calling Name search, to the 1000-Slot Memory Block No. 3. **NOTE 1:** *When this feature is provided, the 1000-Slot Memory Block No. 3 cannot be used for Station Speed Dialing.* **NOTE 2:** *The calling party number must be the number received from network, including the area code.*	• Y=0 (1) 3 YY Z 3 : 1000-Slot Memory Block No. 3 **NOTE 1** YY: 10-Slot Memory Block No. 00-99 Z : Memory Parcel No. 0-9 (2) Stored No.: Access Code (Maximum 4 digits) + [,] + Calling Party No. (Maximum 16 digits) **NOTE 2** NONE◀: No data
	Assign the calling party name to be displayed for the calling party number assigned by CM74 Y=0, to each Memory Slot number, by character codes or characters.	• Y=1 (1) 3 YY Z 3 : 1000-Slot Memory Block No. 3 YY: 10-Slot Memory Block No. 00-99 Z : Memory Parcel No. 0-9 (2) XX...XX: Calling Party Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ *Page B2*
		• Y=2 (1) 3 YY Z 3 : 1000-Slot Memory Block No. 3 YY: 10-Slot Memory Block No. 00-99 Z : Memory Parcel No. 0-9 (2) XX...XX: Calling Party Name Character (Maximum 16 characters) NONE◀: No data
CM90	Provide the D^{term} with a select key of Calling Number Display or Calling Name Display.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1099: Select Key of Calling Number Display or Calling Name Display
	Provide the DESKCON with a select key of Calling Number Display or Calling Name Display.	• Y=00 (1) ATTCON No. (E000-E077) + [,] + Key No. (2) F6122: Select Key of Calling Number Display or Calling Name Display

END

To provide Calling Number and Calling Name Display on D^{term}/ATTCON LCD simultaneously, do the following programming:

[Series 3800 software required]

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Caller ID Display on the LCD of D^{term} to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Specify the displaying pattern of Caller ID on the LCD of D^{term} before answering or after answering a trunk call.	• Y=400 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: To display calling number on upper line of LCD, calling name on middle line of LCD 1: To display calling name on upper line of LCD, calling number on middle line of LCD
	Allow Calling Name Display for incoming trunk calls in Service Restriction Class A assigned by CM12 Y=02.	• Y=136 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Calling Number Display 1◀: Calling Name Display
	Allow blinking LCD for caller ID Display on each D^{term}.	• Y=215 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Restricted 1◀: Allow
CM60	Specify the displaying pattern of Caller ID on the LCD of ATTCON before answering or after answering a trunk call.	• Y=34 (1) 0-7: ATTCON No. (2) 0: To display calling number on upper line of LCD, calling name on middle line of LCD
CM08	Specify the information to display on the middle line of the D^{term}/ATTCON LCD when forwarding a trunk call to the D^{term}/ATTCON by Call Forwarding-All Calls/No Answer/ Busy Line/Not Available.	(1) 563 (2) 0 : Forwarding station name 1◀: Caller ID (Calling number/Calling name)
A		



DESCRIPTION	DATA
Specify displaying the first forwarding station number via CCIS or the second forwarding station number of own office on LCD of forwarding destination D^{term}.	(1) 564 (2) 0 : The first forwarding number via CCIS 1◀: The second forwarding number of own office
Specify the duration of displaying the name when the incoming call is answered/the select key for Calling Number Display and Calling Name Display or CID key is pressed.	(1) 580 (2) 0 : 6 seconds 1◀: Until call is finished/key is pressed again

HARDWARE REQUIRED

D^{term} with LCD and DLC card

CALLER ID-STATION

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the Caller ID sender (SDT) card number to the required LEN. **NOTE:** *The SDT card number must be assigned to the first LEN (Level 0) of each LT slot. Level 1-3 remain "NONE".*	(1) 000-763: LEN (2) C200-C203: SDT Card No.
	Assign the station number of an analog telephone for Caller ID-Station to the required LEN. **NOTE:** *The station number must be assigned to the first LEN (Level 0), the second LEN (Level 1), the third LEN (Level 2) and the fourth LEN (Level 3) of each LT slot.*	(1) 000-763: LEN (2) X-XXXXXXXX: Station No.
CM14	Assign the Caller ID sender (SDT) card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE:** *The SDT card number must be assigned to the first LEN (Level 0) of each LT slot. Level 1-3 remain "NONE".*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) C200-C203: SDT Card No.
	Assign the station number of an analog telephone for Caller ID-Station to the required LEN. **[Series 3200 R6.2 software required]** **NOTE:** *The station number must be assigned to the first LEN (Level 0), the second LEN (Level 1), the third LEN (Level 2) and the fourth LEN (Level 3) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) X-XXXXXXXX: Station No.
CM04	Assign the purpose of the Caller ID sender.	• Y=01 (1) 02 (2) 0: Caller ID-Station
A		

	DESCRIPTION	DATA
A		
CM12	Specify the calling party information which is sent to the analog telephone for Caller ID-Station.	• Y=20 (1) X-XXXXXXXX: Station No. (2) 0: Calling Party Number 1: Calling Party Number and Calling Party Name
CM08	Specify whether the calling station number is sent to the analog telephone for Caller ID-Station when an internal call is terminated.	(1) 507 (2) 0 : Not sent 1◀: To send
CM50	To call back from the analog telephone for Caller ID-Station, assign the access code to be added to the calling station number when an internal call is terminated.	• Y=00 (1) 8 (2) X-XXXX: Access Code to be added (Maximum 4 digits) X: 0-9, A (*), B (#)
CM08	Restrict One hit ringing for Call Forwarding-All Calls. (To restrict all stations in the system)	(1) 266 (2) 0: Restricted
CM12	Assign Service Restriction Class C to each station. (To restrict per Station Class)	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Restrict One hit ringing for Call Forwarding-All Calls to Service Restriction Class C assigned by CM12 Y=07. (To restrict per Station Class)	• Y=81 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0: Restricted
END		

By the following programming, the Caller ID sender can be set in make busy or in service status.

START	DESCRIPTION	DATA
CM45	Assign the make busy condition of the Caller ID sender.	• Y=5 (1) XX Z XX: 00-03: SDT Card No. assigned by CM10/CM14 Z : 0-3: Circuit No. (2) 0 : Make busy 1◀: In service
END		

By the following programming, the Calling Party Number and the Calling Party Name sent from the network over CCIS can be displayed on the LCD of the analog telephone for Caller ID-Station.

START	DESCRIPTION	DATA
CM12	Specify the calling party information which is sent to the analog telephone for Caller ID-Station.	• Y=20 (1) X-XXXXXXXX: Station No. (2) 0: Calling Party Number 1: Calling Party Number and Calling Party Name
CM08	Specify whether the calling station number is sent to the analog telephone for Caller ID-Station when an internal call is terminated.	(1) 507 (2) 0 : Not sent 1◀: To send
	Specify whether the calling party name is sent to the analog telephone for Caller ID-Station when an internal call is terminated. **[Series 3200 R6.1 software required]** **NOTE 1:** *This data is effective only when the 2nd data of CM12 Y=20 is set to 1.* **NOTE 2:** *For the programming for Calling Number Display-CCIS and Calling Name Display-CCIS, refer to the NEAX 2000 IPS CCIS System Manual.*	(1) 524 (2) 0 : To send (Calling Party Name is sent) 1◀: Not sent (Calling Party Number is sent)
END		

HARDWARE REQUIRED

Analog telephone with LCD which supports Caller ID
SDT card (PN-4RSTF/PN-4RSTF-A)
LLC card (PN-4LLCB)
-48 V Power Supply (PZ-PW122)

CALLER ID-STATION (ETSI-FSK)

[For EU]

PROGRAMMING

To provide this feature for the country with following ringing pattern:
- Internal Ringing : 0.3 seconds ON-0.2 seconds OFF-0.3 seconds ON-4.2 seconds OFF
- External Ringing: 1 second ON-4 seconds OFF

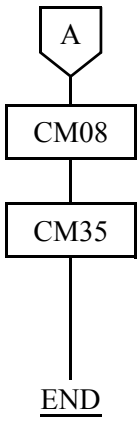
In addition to the programming of CALLER ID-STATION ☞ *Page 190*, do the following programming.

START	DESCRIPTION	DATA
CM08	Specify the ringing signal pattern for an internal/external call. (INITIAL)	(1) 392 (2) 1◀ (1) 396 (2) 0 (1) 397 (2) 0
END		

To provide this feature for the country with following ringing pattern:
- Internal Ringing : 1 second ON-4 seconds OFF
- External Ringing: 0.3 seconds ON-0.2 seconds OFF-0.3 seconds ON-4.2 seconds OFF

In addition to the programming of CALLER ID-STATION ☞ *Page 190*, do the following programming.

START	DESCRIPTION	DATA
CM08	Specify the ringing signal pattern for an internal/external call. (INITIAL)	(1) 392 (2) 0 (1) 396 (2) 1◀ (1) 397 (2) 0
A		



DESCRIPTION	DATA
Assign the ringing signal for Station to Station connection to external ringing.	(1) 138 (2) 0: External Ringing
Assign the interval of ringing signal for station on incoming C.O. calls to the interval for internal ringing.	• Y=33 (1) 00-63: Trunk Route No. (2) 2: Internal Ringing (1 second ON-4 seconds OFF)

HARDWARE REQUIRED

Analog telephone with LCD which supports Caller ID
SDT card (PN-4RSTH)
LLC card (PN-4LLCB)
-48 V Power Supply (PZ-PW122)

CAMP-ON

PROGRAMMING

Camp-On (Transfer Method)

START	DESCRIPTION	DATA
CM08	Provide the system with the Camp-On by Station feature.	(1) 146: Automatic Camp-On (2) 0: Available (1) 147: Manual Camp-On (Result of Switch Hook-Flash while hearing Busy Tone) (2) 0: Special Dial Tone allowing use of Camp-On by Station access code
CM12	Assign Service Restriction Class A for Camp-On to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Camp-On (Transfer Method) in Service Restriction Class A assigned by CM12 Y=02.	• Y=16 Transfer Method (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM08	Specify the Camp-On Tone sent to a busy station by Camp-On Transfer Method.	(1) 068 (2) 0 : Only once 1◀: Every 4 seconds
CM41	Specify the timing for the Camp-On Recall Timer.	• Y=0 (1) 26 (2) 01-15: 8-128 seconds (8 second increments) If no data is set, the default setting is 24-32 seconds.
CM20	Assign an access code for Camp-On by Station (Transfer method).	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*2) (2) A007: Camp-On by Station (Transfer method)
END		

Camp-On (Call Waiting Method)

START	DESCRIPTION	DATA
CM08	Provide the system with the Camp-On by Station feature.	(1) 146: Automatic Camp-On (2) 0: Available (1) 147: Manual Camp-On (Result of Switch Hook Flash while hearing Busy Tone) (2) 0: Special Dial Tone allowing use of Camp-On by access code
CM12	Assign Service Restriction Class A for Camp-On to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call waiting in Service Restriction Class A assigned by CM12 Y=02.	• Y=43 Call Waiting Method-Set from calling side • Y=44 Call Waiting Method-Answer from called side (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Camp-On by Station (Call Waiting Method).	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (#2) (2) A125: Camp-On by Station (Call Waiting Method)
END		

NOTE: *For the data assignment of the Answer key to answer a Camp-On call from a D^{term}, refer to ANSWER KEY.* ☞ Page 43

When using a Single Digit Feature Access Code for Camp-On, add the following system data.

START	DESCRIPTION	DATA
CM08	To activate the Single Digit Feature Access Code, set the data for 050, 051, 069 and 148 to "1".	(1) 050: * Button as Switch Hook Flash (2) 1◀: Ineffective
		(1) 051: # Button as Switch Hook Flash (2) 1◀: Ineffective
		(1) 069: Single Digit Dialing on BT Connection (2) 1◀: Step Call
		(1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective
	Provide the System with the Single Digit Feature Access Code on BT Connection.	(1) 208 (2) 0: Available
END		

CENTREX COMPATIBILITY

PROGRAMMING

In addition to the programming of DIRECT OUTWARD DIALING (DOD) ☞ *Page 322*, do the following programming.

START	DESCRIPTION	DATA
CM35	Assign the Centrex Trunk function to the required trunk routes.	• Y=86 (1) 00-63: Trunk Route No. (2) 0: Centrex Trunk
	Provide the capability for sending a hookflash signal to the Centrex.	• Y=16 (1) 00-63: Trunk Route No. (2) 1◀: Sending
CM20	Assign the access code for sending a hookflash signal to the Centrex Line from a PB Single-Line Telephone.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A158
CM93	Assign the Centrex Trunk as a Prime Line to the desired D^{term} extension.	(1) X-XXXXXXXX: My Line No. (2) D000-D255: Trunk No.
END		

CID CALL BACK

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify Message Waiting Lamp indication on the D^{term} to which Message Waiting/Message Reminder is set.	(1) 294 (2) 0 : Flashing 60 IPM 1◀: Steady Lighting
	Specify the time display for Message Waiting/ Message Reminder on D^{term} with LCD.	(1) 280 (2) 0 : 24-Hour 1◀: 12-Hour
	Provide the system with CID Call Back.	(1) 493 (2) 0: To provide
	Specify whether CID Call Back is provided or not when an incoming call is forwarded, when a station to which a call is terminated is busy, or a station to which a call terminated is set Do Not Disturb. **[Series 3900 software required]** **NOTE:** *CID Call Back by this command is available under the following conditions.* • *The D^{term} station line is set to Call Forwarding-All Calls/Call Forwarding-Busy Line/Call Forwarding-No answer/Call Forwarding-D^{term}IP logout when a trunk call is terminated.* • *The D^{term} station line is set to Do Not Disturb when a trunk call is terminated.* • *The D^{term} station line received the incoming call is busy when a trunk call is terminated.*	(1) 588 (2) 0 : To provide 1◀: Not provided
A		

A

	DESCRIPTION	DATA
CM08	Specify the operation for calling number automatically storing per station when the number of calling number is over the maximum. **[Series 3900 software required]** **NOTE:** *This command is effective only for automatically storing calling number of trunk calls.*	(1) 589 (2) 0 : To delete the oldest calling number and store the new calling number 1◀: Not stored the new calling number
CM13	Provide each D^{term} with Message Waiting.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 0: To provide
CM12	Assign Service Restriction Class A for CID Call Back to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow CID Call Back in Service Restriction Class A assigned by CM12 Y=02.	• Y=126 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
CM35	Provide the trunk route with the CID Call Back.	• Y=150 (1) 00-63: Trunk Route No. (2) 0: To provide
	Assign the trunk access code for CID Call Back. This trunk access code will be saved and sent with the calling number.	• Y=44 (1) 00-63: Trunk Route No. (2) 0-9/00-99: Trunk Access Code
CM29	Assign a Numbering Plan Group number to each tenant.	(1) 00-63: Tenant No. (2) 710-713: Numbering Plan Group 0-3
CM20	Assign the access code for Message Waiting/ Message Reminder Search/Retrieve/Set/ Cancel.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A146: Message Waiting Search A147: Message Waiting Retrieve A148: Message Reminder Set A149: Message Reminder Cancel

B

	DESCRIPTION	DATA
B		
CM12	Assign the number of memory block which is used for CID Call Back for each D^{term} station. **NOTE 1:** *The memory block cannot be used in common by multiple stations. Set the memory block to each D^{term} station respectively.* **NOTE 2:** *CM12 Y=38 is not effective for a Single Line station/Virtual Line station/PS.* **NOTE 3:** *Assign the Start Block No. as follows:* • *0000-1016: Series 3800 software or before* • *0000-4086: Series 3900 software or later*	• Y=38 (1) X-XXXXXXXX: Station No. (2) XXXX ZZ XXXX: 0000-4086: Start Block No. ZZ : Number of Memory Block for CID Call Back 01 : 8 blocks 02 : 16 blocks 03 : 24 blocks NONE◀: 4 blocks
CM13	Provide the function to register the calling number into the Redial key on the D^{term} when the call is answered, for the required stations.	• Y=41 (1) X-XXXXXXXX: Station No. (2) 0: To provide
CM90	Assign the Message Waiting Search key to the D^{term}s.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0A46: Message Waiting Search
END		

HARDWARE REQUIRED

D^{term} with LCD and DLC card

CID CALL ROUTING

PROGRAMMING

For DID on ISDN, T1-ANI, MFC incoming calls:
(See SAMPLE DATA PROGRAMMING 1. ☞ *Page 207*)

START	DESCRIPTION	DATA
CM35	Provide the incoming trunk route with digit conversion.	• Y=18 (1) 00-63: Trunk Route No. (2) 0: To provide
	Specify the Development Table for digit conversion.	• Y=170 (1) 00-63: Trunk Route No. (2) 0 : Development Table 1 3◀: Development Table 0
CM76	Assign the Number Conversion Block number for Development Table 0.	• Y=00 (1) X-XXXX: DID No. /Called No. (2) 000-999: Number Conversion Block No. NOTE

NOTE: *When the Number Conversion Block number is assigned for CID Call Routing, do not use the same Number Conversion Block number for the DID feature.*

	Assign the Number Conversion Block number for Development Table 1.	• Y=90 (1) X-XXXXXXXX: DID No. /Called No. (2) 000-999: Number Conversion Block No. NOTE

NOTE: *When the Number Conversion Block number is assigned for CID Call Routing, do not use the same Number Conversion Block number for the DID feature.*

A

	DESCRIPTION	DATA
A		
CM76	Provide the calling number development and specify its Development Pattern for each Number Conversion Block number assigned by CM76 Y=00/90. **NOTE:** *For non-DID on ISDN, Caller ID calls, this data is not effective and the data setting of CM35 Y=174 is effective.*	• Y=26 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0: To provide (Using Development Pattern 0) 1: To provide (Using Development Pattern 1) 2: To provide (Using Development Pattern 2)
CM2A	Assign the Development Block number for each calling party number.	• Y=50 Development Pattern 0 assigned by CM76 Y=26 • Y=51 Development Pattern 1 assigned by CM76 Y=26 • Y=52 Development Pattern 2 assigned by CM76 Y=26 (1) X-XX....XX: Calling Party No. (Maximum 16 digits) X: 0-9 (2) 000-999: Development Block No. **NOTE** **NOTE:** *Set the different number from the Number Conversion Block number assigned by CM76 Y=00/90.*
CM65	Select the two kinds of mode change or the four kinds of mode change per each tenant.	• Y=29 (1) 00-63: Tenant No. (2) 0 : Two kinds of mode (Day Mode, Night Mode) 1◀: Four kinds of mode (Day Mode, Night Mode, Mode A, Mode B)
CM76	Assign the station tenant for each calling party number.	• Y=09 (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52 (2) 00-63: Station Tenant No.
B		

B

CM76

DESCRIPTION	DATA
Assign the data for interpreting the digits received.	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52 (2) X-XXXXXXXX: Station No. to be terminated DXX: Change Terminating System to: D02: Trunk-Direct Appearances D03: Trunk-Direct Appearances + TAS D04: Direct-In Termination D09: Automated Attendant D10: Attendant Console + TAS D11: Attendant Console + Trunk-Direct Appearances D12: Attendant Console + Trunk-Direct Appearances + TAS D13: TAS D14: Attendant Console D16: DISA
When CM76 Y=01/02/03/04 is set to "D13" (TAS), assign the terminating tenant for Day/Night Mode, Mode A/B per each calling party number.	• Y=05 Day Mode • Y=06 Night Mode • Y=07 Mode A • Y=08 Mode B (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52 (2) 00-63: Trunk Tenant No.

NOTE: *Day/Night Mode, Mode A/B can be specified according to following conditions.*
1st priority:
Specified by tenant number for each calling party number (CM76 Y=09)
2nd priority:
Specified by trunk tenant number (CM30 Y=01)
3rd priority:
Specified by tenant number for each DID number (CM76 Y=09)

NOTE: *When you set the other CM76 data (Y=10, 11, 13-16, 18-25) for the Development Block number assigned by CM2A Y=50/51/52, these settings are also effective for each calling party number.*

END

For non-DID on ISDN, Caller ID incoming calls:
(See SAMPLE DATA PROGRAMMING 2. ☞ *Page 209*)

NOTE 1: *When a Called Party Subaddress is received from ISDN subscriber, CID Call Routing is not effective.*

NOTE 2: *When you activate CID Call Routing for Caller ID trunk, do not assign CMDB Y=01, Y=02.*

START	DESCRIPTION	DATA
CM35	Provide the calling number development and specify its Development Pattern for each trunk route number. **NOTE:** *For DID on ISDN, T1-ANI, MFC calls, this data is not effective and the data setting of CM76 Y=26 is effective.*	• Y=174 (1) 00-63: Trunk Route No. (2) 0: To provide (Using Development Pattern 0) 1: To provide (Using Development Pattern 1) 2: To provide (Using Development Pattern 2)
CM2A	Assign the Development Block number for each calling party number.	• Y=50 Development Pattern 0 assigned by CM35 Y=174 • Y=51 Development Pattern 1 assigned by CM35 Y=174 • Y=52 Development Pattern 2 assigned by CM35 Y=174 (1) X-XX....XX: Calling Party No. (Maximum 16 digits) X: 0-9 (2) 000-999: Development Block No.
CM65	Select the two kinds of mode change or the four kinds of mode change per each tenant.	• Y=29 (1) 00-63: Tenant No. (2) 0 : Two kinds of mode (Day Mode, Night Mode) 1◀: Four kinds of mode (Day Mode, Night Mode, Mode A, Mode B)
CM76	Assign the station tenant for each calling party number.	• Y=09 (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52 (2) 00-63: Station Tenant No.
A		

A

CM76

END

DESCRIPTION	DATA
Assign the data for interpreting the digits received.	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52 (2) X-XXXXXXXX: Station No. to be terminated DXX: Change Terminating System to: D02: Trunk-Direct Appearances D03: Trunk-Direct Appearances + TAS D04: Direct-In Termination D09: Automated Attendant D10: Attendant Console + TAS D11: Attendant Console + Trunk-Direct Appearances D12: Attendant Console + Trunk-Direct Appearances + TAS D13: TAS D14: Attendant Console D16: DISA
When CM76 Y=01/02/03/04 is set to "D13" (TAS), assign the terminating tenant for Day/Night Mode, Mode A/B per each calling party number received on DID call.	• Y=05 Day Mode • Y=06 Night Mode • Y=07 Mode A • Y=08 Mode B (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52 (2) 00-63: Trunk Tenant No.

NOTE: *Day/Night Mode, Mode A/B can be specified according to following conditions.*
1st priority:
Specified by tenant number for each calling party number (CM76 Y=09)
2nd priority:
Specified by trunk tenant number (CM30 Y=01)

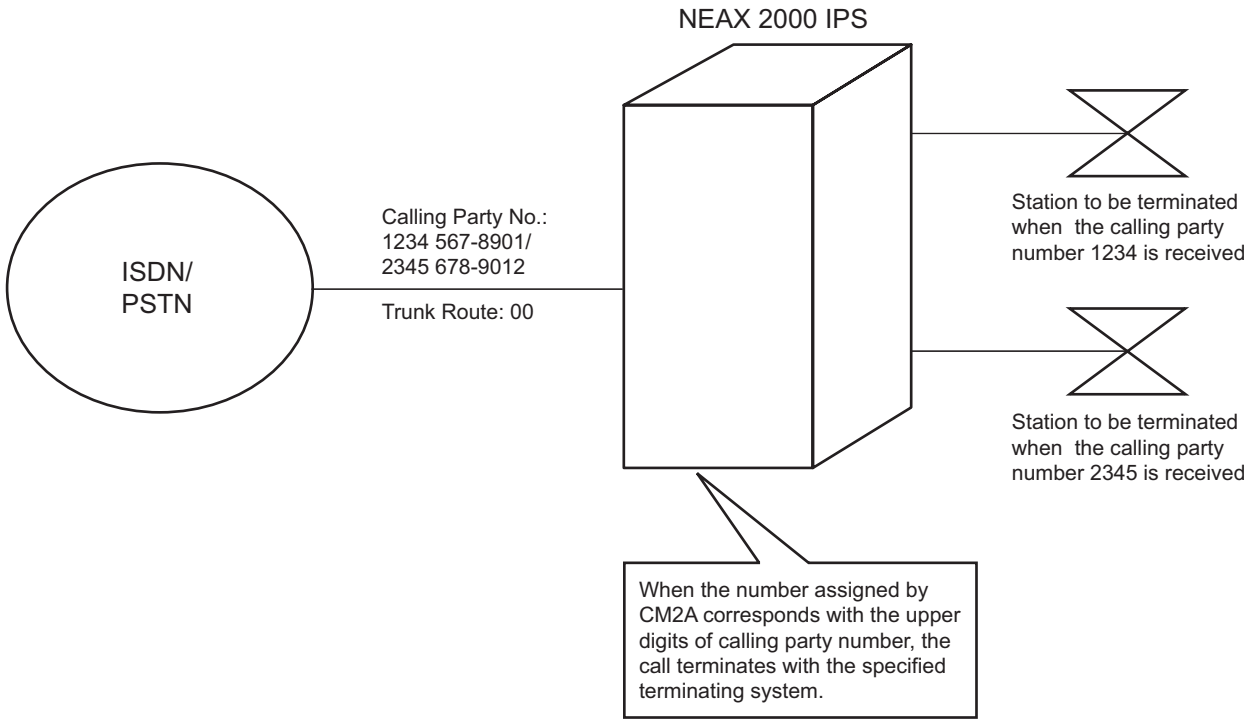
NOTE: *When you set the other CM76 data (Y=10, 11, 13-16, 18-25) for the Development Block number assigned by CM2A Y=50/51/52, these settings are also effective for each calling party number.*

SAMPLE DATA PROGRAMMING 1

For DID on ISDN, T1-ANI, MFC incoming calls.

< Example >

- DID No. : 0123 456-7890
- Trunk Route No. : 00
- Calling Party No. : 1234 567-8901
  : 2345 678-9012
- Terminating System: TAS (Day Mode) when the number 1234 is received
  : Direct-In Termination (Day Mode) when the number 2345 is received
- Station Tenant No. : 01
- Trunk Tenant No. : 01



< Data Programming >

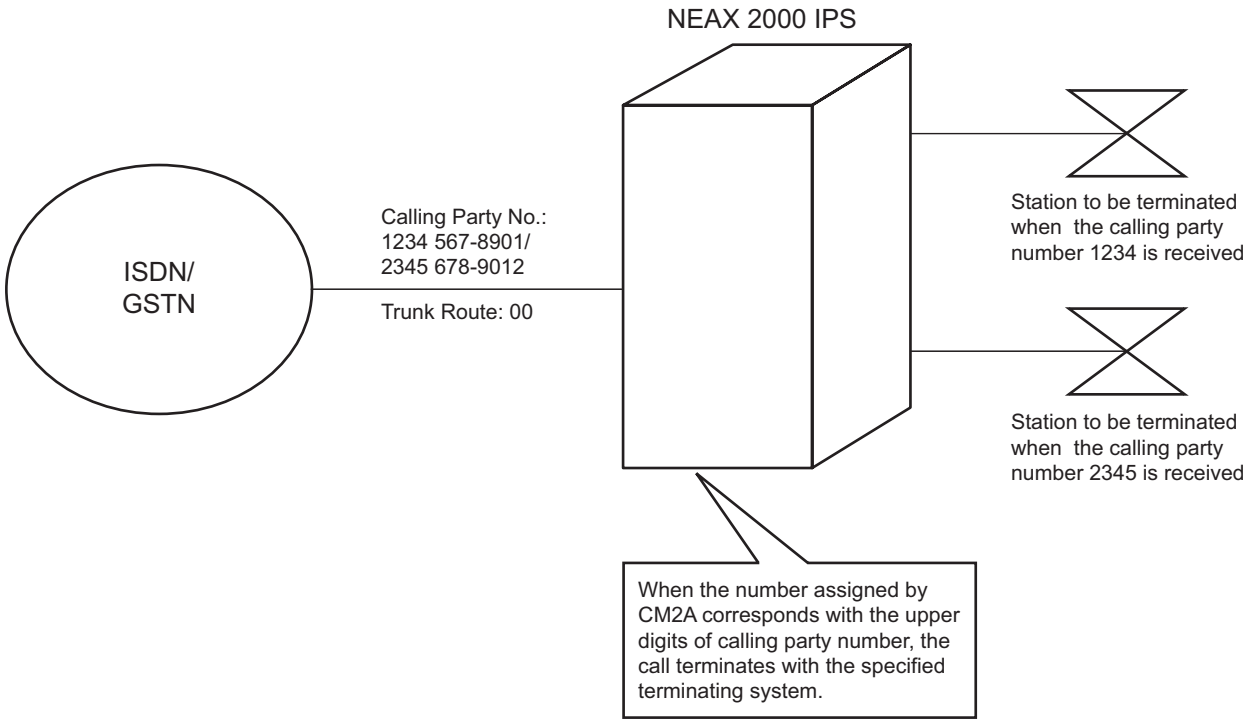
COMMAND	1st DATA	2nd DATA	REMARKS
CM30 Y=00	000	00	Assign the trunk route number 00 to the trunk number 000.
CM30 Y=02	000	18	Set the ISDN Indial for the incoming calls.
CM35 Y=12	00	3	Assign the number of digits to be received on DID to 4 digits.
CM35 Y=18	00	0	Provide the trunk route number 00 with digit conversion.
CM76 Y=00	7890	000	Assign the Number Conversion Block number 000 to the DID number 7890.
CM76 Y=26	000	0	Provide the calling number development with the Development Pattern 0 to the Number Conversion Block number 000.
CM2A Y=50	1234	010	Assign the Development Block number 010 for the calling party number 1234.
CM2A Y=50	2345	011	Assign the Development Block number 011 for the calling party number 2345.
CM76 Y=01	010	D13	Assign TAS in Day Mode to the Development Block number 010.
CM76 Y=01	011	D04	Assign Direct-In Termination in Day Mode to the Development Block number 011.
CM76 Y=09	010	01	Assign the station tenant number 01 to the Development Block number 010.
CM76 Y=05	010	01	Assign the trunk tenant number 01 to the Development Block number 010.

SAMPLE DATA PROGRAMMING 2

For non-DID on ISDN, Caller ID incoming calls.

< Example >

- Calling Party No. : 1234 567-8901
  : 2345 678-9012
- Trunk Route No. : 00
- Terminating System: TAS (Day Mode) when the number 1234 is received
  : Direct-In Termination (Day Mode) when the number 2345 is received
- Station Tenant No. : 01
- Trunk Tenant No. : 01



< Data Programming >

COMMAND	1st DATA	2nd DATA	REMARKS
CM35 Y=174	00	0	Provide the calling number development with the Development Pattern 0 for trunk route number 00.
CM2A Y=50	1234	020	Assign the Development Block number 020 for the calling party number 1234.
CM2A Y=50	2345	021	Assign the Development Block number 021 for the calling party number 2345.
CM76 Y=01	020	D13	Assign TAS in Day Mode to the Development Block number 020.
CM76 Y=01	021	D04	Assign Direct-In Termination in Day Mode to the Development Block number 021.
CM76 Y=09	020	01	Assign the station tenant number 01 to Development Block number 020.
CM76 Y=05	020	01	Assign the trunk tenant number 01 to Development Block number 020.

CLASS OF SERVICE

PROGRAMMING

To assign the Telephone Class:

START	DESCRIPTION	DATA
CM12	Assign the Telephone Class to each station.	• Y=00 Type of Telephone (1) X-XXXXXXXX: Station No. (2) 1 : DP (Rotary Dial Telephone) 2 : DTMF (Push Button Telephone) 3◀: DTMF/DP • Y=03 Telephone Class (1) X-XXXXXXXX: Station No. (2) 00 : House Phone 0 01 : House Phone 1 02 : House Phone 2 03 : House Phone 3 04 : Hot Line 05 : Automatic Intercom 06 : Manual Intercom 07 : Dial Intercom 08 : Attendant Position Loop Line 15◀: Ordinary Station
END		

To assign the Trunk Restriction Class:

START	DESCRIPTION	DATA
CM12	Assign the Trunk Restriction Class to each station.	• Y=01 Trunk Restriction Class (1) X-XXXXXXXX: Station No. (2) X Z X: 1◀-8: Trunk Restriction Class in Day Mode Z: 1◀-8: Trunk Restriction Class in Night Mode 1: Unrestricted (RCA) 2: Non-Restricted 1 (RCB) 3: Non-Restricted 2 (RCC) 4: Semi-Restricted 1 (RCD) 5: Semi-Restricted 2 (RCE) 6: Restricted 1 (RCF) 7: Restricted 2 (RCG) 8: Fully-Restricted (RCH)
CM35	Set the Outgoing/Incoming Trunk Route Restriction Data by Trunk Restriction Classes (RCA-RCH).	• Y=51-58 Outgoing Trunk Restriction Data • Y=61-68 Incoming Trunk Restriction Data (1) 00-63: Trunk Route No. (2) 0 : Restricted 1◀: Allow
END		

To assign the Service Restriction Class:

START	DESCRIPTION	DATA
CM12	Assign the required Service Restriction Class to each station. Service Restriction categories for each class are specified by CM15.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A ZZ : 00-15◀: Service Restriction Class B • Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Specify the service features in each Service Class A, B, and C. **NOTE:** *For details, refer to Command Manual.*	(1) 00-15: Service Restriction Class A, B, C (2) 0 : **NOTE** 1◀: **NOTE**
END		

CODE RESTRICTION

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with the Tol1 Restriction feature for an outgoing call by System Speed Dialing/Station Speed Dialing, if desired.	(1) 035: Station Speed Dialing (2) 0 : Not provided 1◀: To provide
		(1) 044: System Speed Dialing (2) 0 : Not provided 1◀: To provide
	Provide the system with Toll Diversion or Toll Denial.	(1) 119 (2) 0 : Toll Diversion (Routed to the "ICPT" key on the DESKCON) 1◀: Toll Denial (Routed to Reorder Tone)
CM12	Assign a Trunk Restriction Class to each station.	• Y=01 (1) X-XXXXXXXX: Station No. (2) X Z: Trunk Restriction Class X: 1-8: In Day Mode Z : 1-8: In Night Mode 1◀: Unrestricted (RCA) 2 : Non-Restricted 1 (RCB) 3 : Non-Restricted 2 (RCC) 4 : Semi-Restricted 1 (RCD) 5 : Semi-Restricted 2 (RCE) 6 : Restricted 1 (RCF) 7 : Restricted 2 (RCG) 8 : Fully-Restricted (RCH)
CM35	Assign the data for Dial Pulse sending to the Route number assigned.	• Y=08 Dial Pulse Sending (1) 00-63: Trunk Route No. (2) 3◀: To send
	Provide the Toll Restriction feature to the required trunk routes.	• Y=11 (1) 00-63: Trunk Route No. (00) (2) 0: To provide
	Specify outgoing route access capability for each restriction class.	• Y=51-58 (1) 00-63: Trunk Route No. (2) 0 : Restricted 1◀: Allow
A		

A

	DESCRIPTION	DATA
CM35	Assign the Area Code Development Pattern number for Toll Restriction and Maximum Digit Analysis to each trunk route.	• Y=76 (1) 00-63: Trunk Route No. (2) 00-04: Area Code Development Pattern No. 0-4
CM81	Assign the Toll Restriction Patterns with eight kinds of Trunk Restriction Classes assigned by CM12 Y=01. Toll Restriction Pattern 00-15 are preassigned as shown below. If a new Restriction Pattern is required, change the data for Restriction Patterns 01-13 (00, 14 and 15 are fixed).	• Y=01-13 Toll Restriction Pattern No. 01-13 (1) 1-8: Trunk Restriction Class (2) 0: Restricted 3: Allowed

TRUNK RESTRICTION CLASS		Y															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
		TOLL RESTRICTION PATTERN NUMBER ON EACH TRUNK RESTRICTION CLASS															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
1	RCA	3	0	3	3	3	0	0	0	3	3	3	3	3	0	3	0
2	RCB	3	0	3	3	0	0	0	0	3	3	0	0	0	0	3	0
3	RCC	3	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0
4	RCD	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
5	RCE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
6	RCF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
7	RCG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
8	RCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

0: Restricted
3: Allowed

CM85	Specify the maximum number of digits to be dialed during an outgoing call. The maximum number of digits, including the area codes, should be assigned to each area code.	• Y=0-4 Area Code Development Pattern No. 0-4 assigned by CM35 Y=76 (1) X-X...X: Area Code dialed, Maximum 8 digits (2) 01-24◀: 1 digit-24 digits 25-79 : 25-79 digits

B

B

CM8A

DESCRIPTION

Assign the area code to be restricted and the Trunk Restriction Pattern number assigned by CM81 to the Area Code Development Pattern number assigned by CM35 Y=76.
For example, to provide the Trunk Restriction Class "RCB, RCC, RCD, and RCE" with the Toll Restriction for Area Code "00":

- Area Code=00
- Trunk Restriction Pattern=05
  (See Toll Restriction Pattern Table on CM81.)

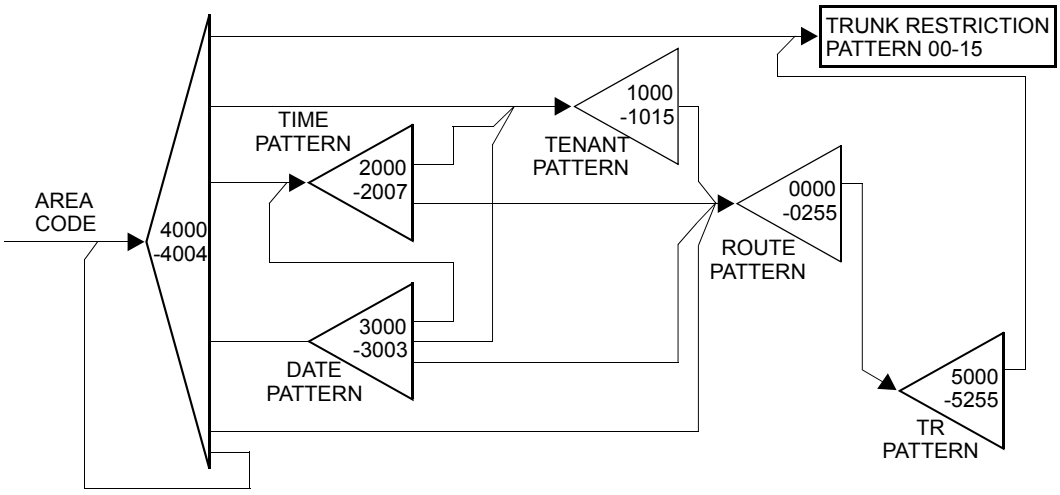
If the Toll Restriction Pattern for the same area code is changed according to the Tenant, Date, and Time, assign the required patterns (Tenant, Date, and Time) to the area code.

DATA

- Y=4000-4004 Area Code Development No. 0-4

(1) Area Code (Maximum 8 digits)
(2) B000-B015: Trunk Restriction Pattern 00-15

NOTE: *For details of Resident System Program, refer to the Command Manual.*



C

C

CM8A

DESCRIPTION	DATA
To add a Tenant Pattern:	
STEP1: Assign the area code to be restricted and a Tenant Pattern number to the Area Code Development Pattern number assigned by CM35 Y=76.	• Y=4000-4004 Area Code Development Pattern No. 0-4 (1) Area Code (Maximum 8 digits) (2) 1000-1015: Tenant Pattern No. 00-15
STEP2: Assign a Tenant number and the Route Pattern number to the Tenant Pattern number assigned by Step1.	• Y=1000-1015 Tenant Pattern No. 00-15 (1) 00-63: Tenant No. 00-63 (2) 0000-0255: Route Pattern No. 000-255
STEP3: Assign a TR Pattern number to the Route Pattern number assigned by Step 2.	• Y=0000-0255 Route Pattern No. 000-255 (1) 1 (2) XXX 00 XXX: 000-255: TR Pattern No.
STEP4: Assign a Trunk Restriction Pattern number assigned by CM81 to the TR Pattern number assigned by Step 3.	• Y=5000-5255 TR Pattern No. (1) 000 (2) 00-15◀: Trunk Restriction Pattern No. 00-15
To add a Time and Date Pattern:	
STEP1: Assign the area code to be restricted and a Date Pattern number to the Area Code Development Pattern number assigned by CM35 Y=76.	• Y=4000-4004 (1) Area Code (Maximum 8 digits) (2) 3000-3003: Date Pattern No. 0-3
STEP2: Assign a date and Time Pattern No. 0-7 to the Date Pattern number assigned by Step 1. Set the data for all dates, one by one, for which Toll Restriction is to be applied.	• Y=3000-3003 Date Pattern No. 0-3 (1) 0-6 (Date) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday (2) 2000-2007: Time Pattern No. 0-7

D

D

CM8A

DESCRIPTION	DATA
STEP3: Assign the starting time for the Toll Restriction and Route Pattern number to the Time Pattern number assigned by above Step 2. Set the Starting Time as shown below.	• Y=2000-2007 Time Pattern No. 0-7 (1) HHMM (Time to Change) HH : 00-23: Hours MM: 00/30: Minutes (2) 0000-0255: Route Pattern No. 000-255 If Tenant Pattern is required, set 1000-1015 (Tenant Pattern No. 00-15).
NOTE: *Two times must be set. The first to start Toll Restriction and the second to stop it (or change it back).*	
STEP4: Assign the TR Pattern number to the Route Pattern number assigned by Step 3.	• Y=0000-0255 Route Pattern No. 000-255 (1) 1 (2) XXX 00 XXX: 000-255: TR Pattern No.
STEP5: Assign the Trunk Restriction Pattern number assigned by CM81 to the TR Pattern number assigned by Step 4.	• Y=5000-5255 TR Pattern No. 000-255 (1) 000 (2) 00-15◀: Trunk Restriction Pattern No. 00-15

END

CONFERENCE (THREE/FOUR PARTY)

PROGRAMMING

To provide a conference by calling another party as the third party of the conference:

START	DESCRIPTION	DATA
CM08	Provide the system with three-party conference.	(1) 101 (2) 1◀: Three Party Conference among stations (1) 102 (2) 0: As per CM08>101 (1) 103 (2) 0: As per CM08>104 (1) 104 (2) 1◀: Three Party Conference among stations and trunk call
	Provide the system with a four-party conference. **NOTE:** *This feature can only be activated from a D^{term}.*	(1) 246 (2) 1◀: Four Party Conference
CM45	Make the Conference trunk on the MP card in service.	• Y=6 Make Busy (1) 00-15: MP built-in CFT Circuit No. (2) 1◀: In service • Y=7 Purpose of CFT (1) 00-15: MP built-in CFT Circuit No. (2) 1◀: For both attendant and station
END		

To provide a conference by adding a held call as the third party of the conference:
[Series 3100 software required]

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Conference leader.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Privacy Release in Service Restriction Class B assigned by CM12 Y=02.	• Y=63 Privacy Release (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CM65	Allow adding the held call on D^{term} multiline as a third party of the conference.	• Y=41 (1) 00-63: Tenant No. (2) 0: Allow
END		

CONFERENCE (SIX/TEN PARTY)

This feature is not available because the conference card (CFTB) is not available any more.

PROGRAMMING

To use this feature by dialing the feature access code:

START	DESCRIPTION	DATA
CM10	Assign the card number of the Conference trunk (CFT card) to the required LEN. (INITIAL) **NOTE:** *The CFT card number must be assigned to the first LEN (Level 0) of each LT slot.*	(1) 000-763: LEN (2) ED00-ED03: CFT Card No.
CM14	Assign the card number of the Conference trunk (CFT card) to the required LEN. **[Series 3200 R6.2 software required]** (INITIAL) **NOTE:** *The CFT card number must be assigned to the first LEN (Level 0) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) ED00-ED03: CFT Card No.
CM20	Assign the access codes for Conference.	• Y=0-3 (1) X-XXXX: Access code (2) A159: 6-party Conference Trunk Access A160: 10-party Conference Trunk Access A161: Connecting participant to CFT card A162: Forced release of participant
END		

To use this feature by using the feature keys assigned on the D^{term}:

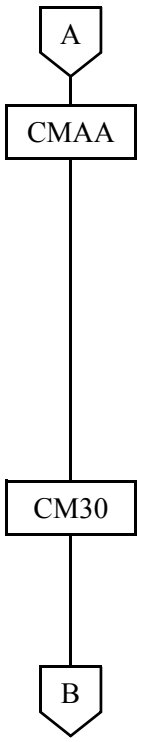
START	DESCRIPTION	DATA
CM90	Assign the feature key for Six/Ten-Party Conference, on the D^{term} of the Conference leader.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0A85: 6-party conference F0A86: 10-party conference
	Assign maximum of 6 or 10 Multiple Line keys on the D^{term} of the Conference leader.	• Y=00 (1) My Line No. + [,] + Key No. (2) X-XXXXXXXX: Multiple Line No.
CM12	Specify the Multiple Line number set by CM90 to be accommodated to D^{term}.	• Y=05 (1) X-XXXXXXXX: Multiple Line No. (2) 0: Accommodated
CM10	Assign the card number of the Conference trunk (CFT card) to the required LEN. (INITIAL)	(1) 000-763: LEN (2) ED00-ED03: CFT Card No.
	NOTE: *The CFT card number must be assigned to the first LEN (Level 0) of each LT slot.*	
CM14	Assign the card number of the Conference trunk (CFT card) to the required LEN. **[Series 3200 R6.2 software required]** (INITIAL)	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) ED00-ED03: CFT Card No.
	NOTE: *The CFT card number must be assigned to the first LEN (Level 0) of each LT slot.*	
END		

CONFERENCE (EIGHT PARTY)

[Series 3800 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign an AP number to the CFTC card. The AP number assigned must match the SENSE switch setting on the CFTC card. (INITIAL)	• Y=0 (1) 04-15, 20-31: AP No. (2) 09: CFTC card
	Select the AP highway channel for the CFTC card. (INITIAL)	• Y=1 (1) 04-15, 20-31: AP No. (2) 0 : Use Expanded Highway channel (128 time slots) 1◀: Use Basic Highway channel (128 time slots)
CM07	Assign trunk numbers to each channel number on the CFTC card. (INITIAL)	• Y=01 (1) XX ZZ XX: 04-15, 20-31: AP No. assigned by CM05 Y=0 ZZ : 00-31: Channel No. of CFTC (2) D000-D255: Trunk No. Any trunk No. already assigned by CM10/ CM14 cannot be used.
	NOTE 1: *The lowest to highest trunk number must be assigned to the lowest to highest channel number of CFTC.*	
	NOTE 2: *The system allocates time slots to consecutive channels from lowest to highest channel number assigned. To minimize the number of time slots allocated, assign trunk numbers to the consecutive channels on each card. Never skip channels in this command.*	
A		



DESCRIPTION	DATA
Specify the conference trunk partition. (CFT INITIAL)	• Y=10 (1) 04-15, 20-31: AP No. assigned by CM05 Y=0 (2) 0 : Four 8-Party Conference groups (8+8+8+8) 1 : Three 8-Party Conference groups (8+8+8) 2 : Two 8-Party Conference groups (8+8) 3◀: One 8-Party Conference group (8)
Assign a trunk route number to each conference trunk. The conference trunk route must be separated from any other analog/digital trunk route.	• Y=00 (1) 000-255: Trunk No. assigned by CM07 Y=01 (2) 00-63: Trunk Route No.

B

CM35

DESCRIPTION	DATA
Assign the trunk route data to the route number assigned by CM30 Y=00.	• Y=00 Kind of Trunk Route (1) 00-63: Trunk No. (2) 04: Tie line trunk • Y=01 Dialing signal type (1) 00-63: Trunk Route No. (2) 2: DP 10PPS • Y=05 Release signal from distant office (1) 00-63: Trunk Route No. (2) 1◀: Release signal arrives • Y=09 Incoming connection signaling (1) 00-63: Trunk Route No. (2) 06: 2nd DT/Timing Start-Tie line • Y=04 Answer signal from distant office (1) 00-63: Trunk Route No. (2) 2: Answer signal arrives (Tie Line) • Y=159 8/32-Party Conference trunk (1) 00-63: Trunk Route No. (2) 0: To provide • Y=14 SMDR for outgoing call (1) 00-63: Trunk Route No. (2) 0: Not provided
NOTE: *Be sure to set the PAD for the conference trunk by CM42, for outside participants.*	• Y=19 PAD control of CFTC (1) 00-63: Trunk Route No. (2) 0-3 : Programmable PAD (See CM42) 4-7◀: Not used

C

C

CM42

DESCRIPTION	DATA
To use the programmable PAD (CM35 Y=19, 2nd Data=0-3), assign the PAD data by CM42.	(1) 50-65: See the table below. (2) 00-15: See the table below.

PATTERNS / 1ST DATA	PAD DATA PATTERNS				CONNECTING PATTERNS (A TRUNK-B TRUNK)
	CM35 Y=19 2ND DATA=0	CM35 Y=19 2ND DATA=1	CM35 Y=19 2ND DATA=2	CM35 Y=19 2ND DATA=3	
50 ≀ 65	50	54	58	62	STA/TONE-CFTC
	51	55	59	63	COT/DID/IPT-CFTC
	52	56	60	64	ODT (4W E&M)-CFTC
	53	57	61	65	DTI/BRT/PRT/CCT/Virtual IPT/CFTC-CFTC

2ND DATA / PATTERNS		PAD DATA OF CFTC (T/R) [dB]
00 ≀ 15	00	0/0
	01	0/0
	02	–8/0
	03	+4/0
	04	0/–3
	05	0/–3
	06	–8/–3
	07	+4/–3
	08	0/–6
	09	0/–6
	10	–8/–6
	11	+4/–6
	12	0/–9
	13	0/–9
	14	–8/–9
	15	+4/–9

T/R: Transmitter PAD/Receiver PAD
\+ : Gain
– : Loss

D

	DESCRIPTION	DATA
D		
CM41	Specify the Timing forced release timer for Party Conference. **NOTE:** *If the 2nd data is set to "00", the Forced Release Timer doesn't work.*	• Y=3 (1) 17 (2) 00 : **NOTE 2** 01-24 : 1-24 hours (1 hour increments) NONE◀: 7 hours
CM12	Specify the Multiple Line number set by CM90 to be accommodated to D^{term}.	• Y=05 (1) X-XXXXXXXX: Multiple Line No. (2) 0: Accommodated
CM90	Assign the feature key for Eight-Party Conference, on the D^{term} of the Conference leader.	• Y=00 (1) My Line No. + , + Key No. (2) F0A59: 8-party conference
	Assign maximum of 7 Multiple Line keys on the D^{term} of the Conference leader.	• Y=00 (1) My Line No. + , + Key No. (2) X-XXXXXXXX: Multiple Line No.
CM20	Assign the access code for Restriction of additional participants to conference Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A254: Restriction of additional participants to conference Set A255: Restriction of additional participants to conference Cancel
CM90	Assign Restriction of additional participants to conference keys to the D^{term}s, if required.	• Y=00 (1) My Line No. + , + Key No. (2) F0B54: Restriction of additional participants to conference Set/Cancel
END		

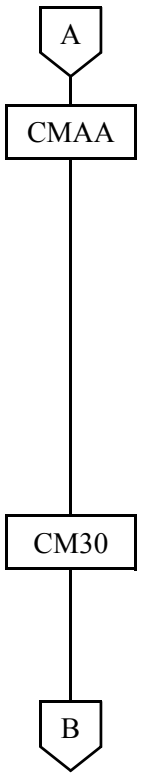
CONFERENCE (32-PARTY)

PROGRAMMING

Conference (32-Party) allows a station user or an outside party to establish a conference by Group Call or to attend a conference by Meet-Me Conference.
To provide Group Call or Meet-Me Conference, do the Conference Trunk Assignment at first.

Conference Trunk Assignment:

START	DESCRIPTION	DATA
CM05	Assign an AP number to the CFTC card. The AP number assigned must match the SENSE switch setting on the CFTC card. (INITIAL)	• Y=0 (1) 04-15, 20-31: AP No. (2) 09: CFTC card
	Select the AP highway channel for the CFTC card. (INITIAL)	• Y=1 (1) 04-15, 20-31: AP No. (2) 0 : Use Expanded Highway channel (128 time slots) 1◀: Use Basic Highway channel (128 time slots)
CM07	Assign trunk numbers to each channel number on the CFTC card. (INITIAL) **NOTE 1:** *The lowest to highest trunk number must be assigned to the lowest to highest channel number of CFTC.* **NOTE 2:** *The system allocates time slots to consecutive channels from lowest to highest channel number assigned. To minimize the number of time slots allocated, assign trunk numbers to the consecutive channels on each card. Never skip channels in this command.*	• Y=01 (1) XX ZZ XX: 04-15, 20-31: AP No. assigned by CM05 Y=0 ZZ : 00-31: Channel No. of CFTC (2) D000-D255: Trunk No. Any trunk No. already assigned by CM10/ CM14 cannot be used.
A		



DESCRIPTION	DATA
Specify the conference trunk partition. (CFT INITIAL)	• Y=10 (1) 04-15, 20-31: AP No. assigned by CM05 Y=0 (2) 0 : Four 8-Party Conference groups (8 + 8 + 8 + 8) 1 : One 16-Party Conference group and two 8-Party Conference groups (16 + 8 + 8) 2 : Two 16-Party Conference groups (16 + 16) 3◀: One 32-Party Conference group (32)
Assign a trunk route number to each conference trunk. The conference trunk route must be separated from any other analog/digital trunk route.	• Y=00 (1) 000-255: Trunk No. assigned by CM07 Y=01 (2) 00-63: Trunk Route No.

B

CM35

DESCRIPTION	DATA
Assign the trunk route data to the route number assigned by CM30 Y=00.	• Y=00 Kind of Trunk Route (1) 00-63: Trunk No. (2) 04: Tie line trunk • Y=01 Dialing signal type (1) 00-63: Trunk Route No. (2) 2: DP 10PPS • Y=05 Release signal from distant office (1) 00-63: Trunk Route No. (2) 1◀: Release signal arrives • Y=09 Incoming connection signaling (1) 00-63: Trunk Route No. (2) 06: 2nd DT/Timing Start-Tie line • Y=04 Answer signal from distant office (1) 00-63: Trunk Route No. (2) 2: Answer signal arrives (Tie Line) • Y=159 8/32-Party Conference trunk (1) 00-63: Trunk Route No. (2) 0: To provide • Y=14 SMDR for outgoing call (1) 00-63: Trunk Route No. (2) 0: Not provided
NOTE: *Be sure to set the PAD for the conference trunk by CM42, for outside participants.*	• Y=19 PAD control of CFTC (1) 00-63: Trunk Route No. (2) 0-3 : Programmable PAD (See CM42) 4-7◀: Not used

C

C

CM42

DESCRIPTION	DATA
To use the programmable PAD (CM35 Y=19, 2nd Data=0-3), assign the PAD data by CM42.	(1) 50-65: See the table below. (2) 00-15: See the table below.

PATTERNS / 1ST DATA	PAD DATA PATTERNS				CONNECTING PATTERNS (A TRUNK-B TRUNK)
	CM35 Y=19 2ND DATA=0	CM35 Y=19 2ND DATA=1	CM35 Y=19 2ND DATA=2	CM35 Y=19 2ND DATA=3	
50	50	54	58	62	STA/TONE-CFTC
≀	51	55	59	63	COT/DID/IPT-CFTC
65	52	56	60	64	ODT (4W E&M)-CFTC
	53	57	61	65	DTI/BRT/PRT/CCT/Virtual IPT/CFTC-CFTC

2ND DATA / PATTERNS		PAD DATA OF CFTC (T/R) [dB]
00	00	0/0
≀	01	–4 (0)/0
15	02	–8/0
	03	+4/0
	04	0/–3
	05	–4 (0)/–3
	06	–8/–3
	07	+4/–3
	08	0/–6
	09	–4 (0)/–6
	10	–8/–6
	11	+4/–6
	12	0/–9
	13	–4 (0)/–9
	14	–8/–9
	15	+4/–9

T/R: Transmitter PAD/Receiver PAD
\+ : Gain
– : Loss

NOTE: *When using CFTC-A card, the PAD data is set to 0 dB if the second data is set to 01, 05, 09, and 13.*

D

D

CM41

END

DESCRIPTION	DATA
Specify the Timing forced release timer for Party Conference. **[Series 3800 software required]** **NOTE 1:** *This command is effective only when PN-CFTC-A card is used.* **NOTE 2:** *If the 2nd data is set to "00", the Forced Release Timer doesn't work.*	• Y=3 (1) 17 (2) 00 : **NOTE 2** 01-24 : 1-24 hours (1 hour increments) NONE◀: 7 hours

GROUP CALL

Group Call includes three kinds of conference: Group Call-Automatic Conference, Group Call-Broadcasting, and Group Call-Two Way Calling.
Do the following programming in addition to the Conference Trunk Assignment (☞ *Page 228*).

START	DESCRIPTION	DATA
CM57	Assign the participant numbers (not including the conference leader) for each conference group. **NOTE 1:** *Assign the following participant numbers as the first data.* *8-Party Conference: 00-06* *16-Party Conference: 00-14* *32-Party Conference: 00-30* **NOTE 2:** *C (fixed pause), D (programmable pause) can be assigned.* **NOTE 3:** *The maximum number of simultaneous calling for single line stations/PSs is 12 per FP. When the number of single line stations/PSs exceeds 12, allocate the rest of participant stations to another FP. For a D^{term} (My Line/Virtual Line), there is no limit of the above.*	• Y=00-07 Group No. 0-7 (1) 00-30: Participant No. **NOTE 1** (2) X-X....X: Participant Station No. Trunk Access Code + Participant No. LCR Access Code + Participant No. Maximum 16 digits **NOTE 2**
CM29	Assign a Numbering Plan Group number to each tenant.	(1) 00-63: Tenant No. (2) 710-713: Numbering Plan Group 0-3
CM20	Assign the access code for LCR Group 0-3.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3
A		

A

CM8A

DESCRIPTION	DATA
Assign an Area Code Development Pattern number to each LCR Group.	• Y=A000 (1) 0-3: LCR Group 0-3 (2) 4000-4007: Area Code Development Pattern No. 0-7
Assign a Route Pattern number to each area code (Conference Access Code) for the Area Code Development Pattern number assigned by CM8A Y=A000.	• Y=4000-4007 Area Code Development Pattern No. 0-7 (1) X...X: Area Code (Conference Access Code), Maximum 8 digits (2) 0000-0255: Route Pattern No. 000-255
Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4000-4007.	• Y=0000-0255 Route Pattern No. 000-255 (1) 1-4: Order of LCR Selection 1: 1st 2: 2nd 3: 3rd 4: 4th (2) XXX ZZ XXX: 000-255: LCR Pattern No. 000-255 ZZ : 00-63: Trunk Route No. 00-63 assigned by CM30 Y=00
Delete all digits of the area code (Conference Access Code) assigned by CM8A Y=4000-4007.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 152: All digits of Conference Access Code to be deleted (2) 0: To delete

B

B

	DESCRIPTION	DATA
CM8A	To add the kind of conference and the group number, designate the digits to be added.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 100: Designation of Digit Addition Pattern No. (2) 9000-9255: Digit Addition Pattern No. 000-255 • Y=9000-9255 Digit Addition Pattern No. 000-255 (1) 0 (2) X ZZ: Digits to be added X : Kind of Conference 0 : Group Call-Automatic Conference (Continue the conference when conference leader hangs up) 1 : Group Call-Automatic Conference (End the conference when conference leader hangs up) 2 : Group Call-Broadcasting (End the conference when conference leader hangs up) 3 : Group Call-2 Way Calling ZZ: 00-07: Group No. 00-07
CM85	Specify the maximum number of digits for the area code (Conference Access Code).	• Y=0-7 Area Code Development Pattern No. 0-7 assigned by CM8A Y=A000 (1) X-X...X: Conference Access Code or its part, Maximum 8 digits (2) 01-08: 1 digit-8 digits 24◀ : 24 digits
CM35	Specify the trunk seizure timing for the conference trunk.	• Y=36 (1) 00-63: Trunk Route No. assigned by CM30 Y=00 (2) 0: After dialing maximum number of digits

C

C

	DESCRIPTION	DATA
CM36	For an outside participant, allow tandem connection between the conference trunk route and the outgoing trunk route to the participant.	• Y=0 (1) 0000-6363: Conference Trunk Route No. assigned by CM30 Y=00 + Outgoing Trunk Route No. (2) 0: Allow
	For an outside conference leader, allow tandem connection between the incoming trunk route from the conference leader and the conference trunk route.	• Y=0 (1) 0000-6363: Incoming Trunk Route No. + Conference Trunk Route No. assigned by CM30 Y=00 (2) 0: Allow
CM41	Specify the detect timing of participant's no answer. The ringing will stop at this timing.	• Y=3 (1) 16 (2) 00 : No stop ringing 01-14: 1-14 minutes (1 minute increments) If no data is set, the default setting is 30 seconds.
CM35	Assign a trunk name number for the conference trunk route not to display the kind of trunk route assigned by CM35 Y=00 on a D^{term}. "CNF GROUPxx" will be displayed on a D^{term} of participant.	• Y=03 (1) 00-63: Trunk Roue No. (2) 00-14: Trunk Name No. 16-63: Trunk Name No.
CM77	Assign the trunk name to "20" (space).	• Y=2 By Character Code (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) 20: Space

D

To display “CNF GROUPxx” on a PS:

	DESCRIPTION	DATA
D		
CM12	Assign Service Restriction Class A to a PS station.	• Y=02 (1) X-XXXXXXXX: PS station No. assigned by CM1C (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Calling Name Display-PS in Service Restriction Class A assigned by CM12 Y=02.	• Y=123 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
	Allow Calling Name Display for trunk incoming calls in the Service Restriction Class A assigned by CM12 Y=02.	• Y=136 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Calling Name Display
END		

MEET-ME CONFERENCE

To attend a conference by accessing from any station or trunk to the conference trunk, do the following programming in addition to the Conference Trunk Assignment (☞ Page 228).

START	DESCRIPTION	DATA
CM08	Specify whether Service Set Tone is sent to participants when a new participant attends the conference. **[Series 3500 software required]**	(1) 728 (2) 0 : Not sent 1◀: To send
CM29	Assign a Numbering Plan Group number to each tenant.	(1) 00-63: Trunk Route No. (2) 710-713: Numbering Plan Group 0-3
CM20	Assign the access code for LCR Group 0-3.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3
	Assign the access code for Restriction of additional participants to conference Set and Cancel, respectively. **[Series 3500 software required]**	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A254: Restriction of additional participants to conference Set A255: Restriction of additional participants to conference Cancel
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	• Y=A000 (1) 0-3: LCR Group 0-3 (2) 4000-4007: Area Code Development Pattern No. 0-7
	Assign a Route Pattern number to each area code (Meet-Me Conference Access Code) for the Area Code Development Pattern number assigned by CM8A Y=A000.	• Y=4000-4007 Area Code Development Pattern No. 0-7 (1) X...X: Area Code (Meet-Me Conference Access Code), Maximum 8 digits (2) 0000-0255: Route Pattern No. 000-255
	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4000-4007.	• Y=0000-0255 Route Pattern No. 000-255 (1) 1-4: Order of LCR Selection 1: 1st 2: 2nd 3: 3rd 4: 4th (2) XXX ZZ XXX: 000-255: LCR Pattern No. 000-255 ZZ : 00-63: Trunk Route No. 00-63 assigned by CM30 Y=00
A		

	DESCRIPTION	DATA
A		
CM8A	Delete all digits of the area code (Meet-Me Conference Access Code) assigned by CM8A Y=4000-4007.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 152: All digits of Meet-Me Conference Access Code to be deleted (2) 0: To delete
	To add the Meet-Me Conference number, designate "999" as the digits to be added.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 100: Designation of Digit Addition Pattern No. (2) 9000-9255: Digit Addition Pattern No. 000-255 • Y=9000-9255 Digit Addition Pattern No. 000-255 (1) 0 (2) Digits to be added 999: Meet-Me Conference
CM85	Specify the maximum number of digits for the area code (Meet-Me Conference Access Code).	• Y=0-7 Area Code Development Pattern No. 0-7 assigned by CM8A Y=A000 (1) X-X...X: Meet-Me Conference Access Code or its part, Maximum 8 digits (2) 01-08: 1 digit-8 digits 24◀ : 1 digit-24 digits
CM35	Specify the trunk seizure timing for the conference trunk.	• Y=36 (1) 00-63: Trunk Route No. assigned by CM30 Y=00 (2) 0: After dialing maximum number of digits
CM36	For a participant from outside, allow tandem connection between the incoming trunk route from the participant and the conference trunk route.	• Y=0 (1) 0000-6363: Incoming Trunk Route No. + Conference Trunk Route No. assigned by CM30 Y=00 (2) 0: Allow
CM90	Assign Restriction of additional participants to conference keys to the D^{term}s, if required. **[Series 3500 software required]**	• Y=00 (1) My Line No. + [,] + Key No. (2) F0B54: Restriction of additional participants to conference Set/Cancel
END		

HARDWARE REQUIRED

CFTC card

CONSECUTIVE SPEED DIALING

PROGRAMMING

To provide Consecutive Station Speed Dialing from Single Line Telephone or D^{term}:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Station Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	• Y=07 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign access codes for Station Speed Dialing, Origination, Entry and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (#*, 7*, 7#) (2) A064: Origination A065: Entry A066: Cancel
CM08	Specify whether to provide Toll Restriction for an outgoing call by Station Speed Dialing.	(1) 035 (2) 0 : Not provided 1◀: Provided
	Specify whether to set "#" dialing as paused data (1.5 seconds) or dialed digit when the DTMF station or D^{term} dials "#" in the setting of the Station Speed Dialing feature.	(1) 168 (2) 0 : Paused data (1.5 seconds) 1◀: Dialed digit
	Specify "*" dialing is set as programmable pause by CM41 Y=0>38 or dialed digit when the DTMF station or D^{term} dials "*" in the setting of the Station Speed Dialing feature.	(1) 171 (2) 0 : Programmable pause by CM41 Y=0>38 1◀: Dialed digit
A		

A

CM73

B

DESCRIPTION	DATA
Allocate the memory area for Station Speed Dialing to each station when using Consecutive Speed Dialing.	(1) X-XXXXXXXX: Station No. (2) W XX Y ZZ W : 0-9: 1000-Slot Memory Block No. **NOTE** XX: 00-99: Memory Start Block No. (10-Slot Memory Block) Y : Facility for programming the dialed number from the Station 0/1: Effective/Ineffective ZZ : 01-10: Number of 10-Slot Memory Blocks

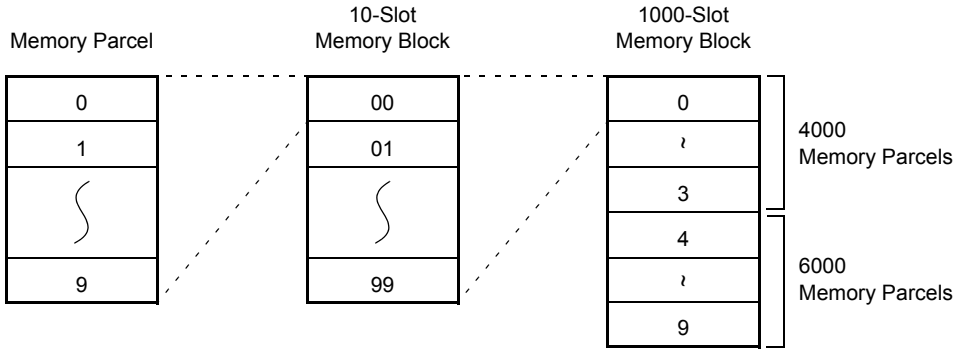
NOTE: *1000-Slot Memory Block number 4-9 (6000 Memory Parcels) cannot be used for Speed Dialing with Station Speed Dialing keys provided by CM90: F11XX on a D^{term}, and cannot also be used for System Speed Dialing.*

B

CM73

DESCRIPTION	DATA

The memory area for storing one called number of Station Speed Dialing is called a “Memory Parcel”. An assembly of 10 Memory Parcels is called a “10-Slot Memory Block,” and one hundred 10-Slot Memory Blocks are called a “1000-Slot Memory Block”.



Example: If the stored number intended is 10 for Station Number 300, 20 for Station Number 301, and 30 for Station Number 302, the memory areas assignment is as follows.

Station No. (1st Data)	1000-Slot Memory Block No. (2nd Data: W)	Memory Start Block No. (10-Slot Memory Block) (2nd Data: XX)	Number of 10-Slot Memory Block (2nd Data: ZZ)
300	0	00	01
301	0	01	02
302	0	03	03
303	0	06	01

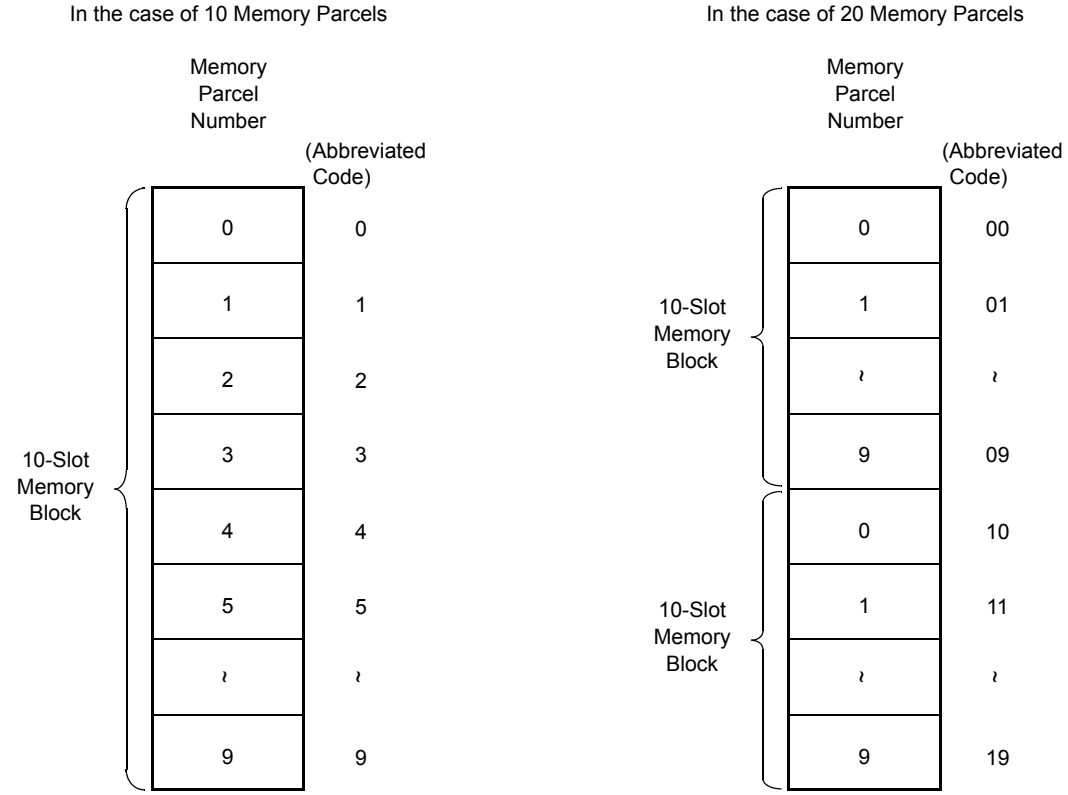
C

C

CM73

DESCRIPTION	DATA

The abbreviated codes for this feature are automatically determined by assigning this command, on a station basis.
If the number of Memory Parcels per station does not exceed 10, then Abbreviated Code=0-9.
If the number of Memory Parcels per station exceeds 11, then Abbreviated Code=00-99.
The following figure shows the relation between Abbreviated Codes and Memory Parcels.



D

D

CM74

DESCRIPTION	DATA
Assign the number to be dialed to each Memory Slot number, if required. The numbers to be called are usually set from individual stations by their station users.	• Y=0 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) Stored No.: Outgoing Call Access Code (Maximum 4 digits) + [,] + Stored No. (Maximum 26 digits) To set a pause into the Stored No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0>38) after desired digits. NONE◀: No data
Assign the Station Name to be displayed to each Memory Slot number, by character codes or character.	• Y=1 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B:Character Code Table. ☞ *Page B2* • Y=2 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character (Maximum 16 characters) NONE◀: No data

E

E

CM90

END

DESCRIPTION	DATA
Assign Station Speed Dialing keys on each D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F11XX XX: 00-99: Station Speed Dialing 00-99 **NOTE:** *The initial setting of key layout is for 16 Line/Trunk/Feature keys (Key No. 01-16).* *When using Key No. 17-24, data setting of CM12 Y=24, 2nd data=0 is required.*

To provide Consecutive Station Speed Dialing from D^{term} with One Touch keys:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Station Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	• Y=07 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM08	Specify whether to provide Toll Restriction for an outgoing call by Station Speed Dialing.	(1) 035 (2) 0 : Not provided 1◀: Provided
	Specify whether to set "#" dialing as paused data (1.5 seconds) or dialed digit when the D^{term} dials "#" in the setting of the Station Speed Dialing feature.	(1) 168 (2) 0 : Paused data (1.5 seconds) 1◀: Dialed digit
	Specify whether to set "*" dialing as programmable pause by CM41 Y=0>38 or dialed digit when the DTMF station or D^{term} dials "*" in the setting of the Station Speed Dialing feature.	(1) 171 (2) 0 : Programmable pause by CM41 Y=0>38 1◀: Dialed digit
A		

A

CM94

B

DESCRIPTION	DATA
Allocate the memory area for Station Speed Dialing to each station when using Consecutive Speed Dialing for One Touch Keys.	(1) X-XXXXXXXX: My Line No. (2) W XX 0 ZZ W : 0-9: 1000-Slot Memory Block No. XX: 00-99: 10-Slot Memory Start Block No. ZZ : 01-10: Number of 10-Slot Memory Blocks

NOTE 1: *If the station number is assigned to One Touch keys using 1000-Slot Memory Block number 4-9 (6000 Memory Parcels), the lamp does not show the busy state.*

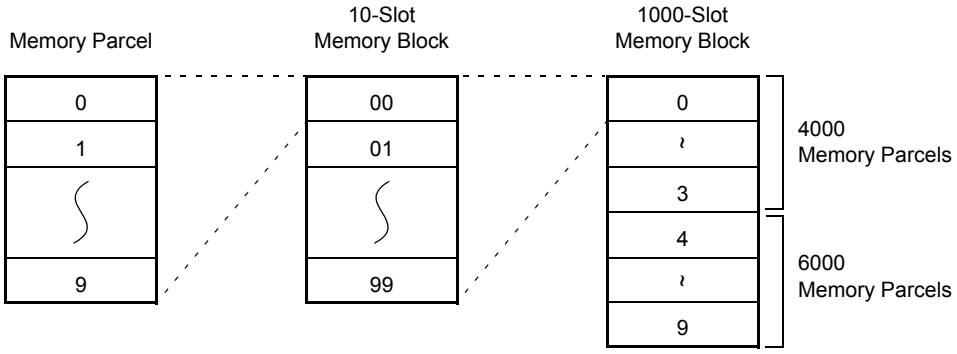
NOTE 2: *When Consecutive Speed Dialing is provided using the One Touch Keys, the same memory area must be assigned on CM73 and CM94.*

B

CM94

DESCRIPTION **DATA**

The memory area for storing one called number of Station Speed Dialing is called a "Memory Parcel". An assembly of 10 Memory Parcels is called a "10-Slot Memory Block," and one hundred 10-Slot Memory Blocks are called a "1000-Slot Memory Block".



Example: If the stored number intended is 10 for Station Number 300, 20 for Station Number 301, and 30 for Station Number 302, the memory areas assignment is as follows.

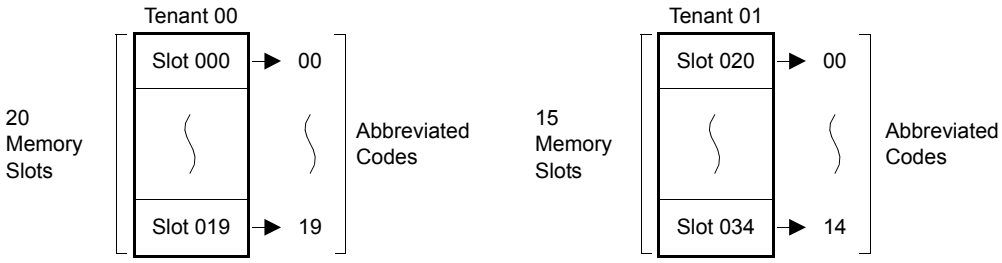
Station No. (1st Data)	1000-Slot Memory Block No. (2nd Data: W)	Memory Start Block No. (10-Slot Memory Block) (2nd Data: XX)	Number of 10-Slot Memory Block (2nd Data: ZZ)
300	0	00	01
301	0	01	02
302	0	03	03
303	0	06	01

END

To provide Consecutive System Speed Dialing:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow System Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	• Y=06 System Speed Dialing (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for System Speed Dialing.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (##) (2) A067: System Speed Dialing
CM71	Assign the memory area for the System Speed Dialing. 300 memory slots are available per system. The number of slots available for each Tenant is also 300.	(1) 00-63: For stations within Tenant 00-63 64 : For Attendant Console (2) XXX YYY XXX: 000-299: First Memory Slot No. in Block YYY: 001-300: Number of Slots to be allocated in Block
	Abbreviated Call Codes required for accessing this feature are automatically given to each Tenant as shown below.	For example, to provide 20 memory slots starting at Slot 60: Data=060020

Example:



The number of digits for Abbreviated Code is automatically determined as shown below:

- Less than 100 memory slots per Tenant: 2 digits (00-99)
- More than 100 memory slots per Tenant: 3 digits (000-299)

A

	DESCRIPTION	DATA
A		
CM72	Set a stored number to each Memory Slot number allocated by CM71, as needed.	• Y=0 (1) 000-299: Memory Slot No. (2) Stored No.: Outgoing Access Code (Maximum 4 digits) + [,] + Stored No. (Maximum 26 digits) To set a pause into the Stored No., enter "C" (Fixed pause=1.5 seconds) or "D" (Programmable pause specified by CM41 Y=0>38) after desired digits. NONE◀: No data
	Assign the name for display, to the Memory Slot number allocated by CM71, by character codes or character.	• Y=1 (1) 000-299: Memory Slot No. (2) XX...XX: Station Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=2 (1) 000-299: Memory Slot No. (2) XX...XX: Station Name Character (Maximum 16 characters) NONE◀: No data
CM08	Specify the System Speed Dialing security. (Stored number displays on D^{term} for an outgoing call by System Speed Dialing.)	(1) 043 (2) 0 : Not displayed 1◀: Display
	Specify Toll Restriction for an outgoing call by System Speed Dialing.	(1) 044 (2) 0 : Not provided 1◀: Provided
END		

CONSULTATION HOLD

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Select the ringing pattern on station calls with a trunk line placed in Consultation Hold.	(1) 137 (2) 0 : Change from Internal Ringing (CM08>138) to External Ringing (CM35 Y=33) when transferring a call 1◀: External Ringing (CM35 Y=33)
CM12	Assign Service Restriction Class C to each station.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Allow the Switch Hook Flash capability in Service Restriction Class C assigned by CM12 Y=07.	• Y=88, 89 Switch Hook Flash on Internal Call • Y=90, 91 Switch Hook Flash on External Call (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 1◀: Available (Special Dial Tone Connection)
END		

CUSTOMER ADMINISTRATION TERMINAL (CAT)

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for CAT to the required D^{term}.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow change of mode for CAT in Service Restriction Class B assigned by CM12 Y=02.	• Y=56 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CME7	Specify the command codes accessible to each Password Level.	• Y=00: Password Level 0-6 • Y=01: Password Level 1-6 • Y=02: Password Level 2-6 • Y=03: Password Level 3-6 • Y=04: Password Level 4-6 • Y=05: Password Level 5-6 • Y=06: Password Level 6 • Y=10: Password Level 0 • Y=11: Password Level 1 • Y=12: Password Level 2 • Y=13: Password Level 3 • Y=14: Password Level 4 • Y=15: Password Level 5 • Y=16: Password Level 6 (1) 02-F8: Command Code exclusive of 03, E7, E9 (2) 0 : Allowed 1◀: Restricted
A		

A

	DESCRIPTION	DATA
CME9	Assign the setting/changing of the password to be allowed.	(1) 8 (2) 0◀: Allowed 1 : Restricted
	Assign a password to each Password Level.	(1) 0-7: Password Level 0-7 (2) X-X...X: Maximum 8 digits Password CCC : Password clear A password for Password Level 7 should be assigned in advance because of providing the password service by Function No. 9 of CME9. The following passwords are not available. "CCCCCCCC" "FFFFFFFF" The setting/changing of the password is available only when the second data of CME9>8 is set to "0 (Allowed)". If CME9>8 is set to "1 (Restricted)", "DATA ERROR" is displayed when you set/change the password.
	Provide the system with Password Feature. After setting this data, access to system programming will be available with password entry only.	(1) 9 (2) 0: Provided

END

NOTE 1: *If the system data all clear is required before programming from a CAT, perform the following operations:*

1. *Plug the DLC card into LT00 Slot of PIM0.*
2. *Connect the CAT to LEN000 at the MDF.*
3. *Set SW3 on the MP card to "B".*
4. *Press SW1 (RESET Switch) on the MP card (System Data All Clear).*
5. *Set SW3 to "0" and press SW1.*
6. *Set the D^{term} to CAT mode (Station number 300 is automatically assigned to the D^{term}).*

NOTE 2: *If Password Service is activated, enter the predetermined password (assigned by CME9>0-7) by CM03 before programming from a CAT.*

ST + *03* + DE + *Password Level number (0-7)* + DE + *Password* + EXE

– *"OK" will be displayed, if accepted.*

– *"DATA ERROR" will be displayed if the password is incorrect.*

DATA LINE SECURITY

PROGRAMMING

START	DESCRIPTION	DATA
CM13	Assign the function of Analog Data station (Single-Line Station with FAX or MODEM) to the required stations.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 0: Data station
END		

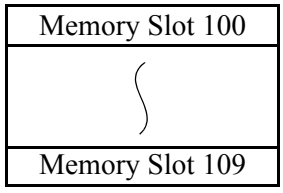
DELAYED HOTLINE

[Series 3700 R12.2 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign a Delayed Hotline to the required stations.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 09: Delayed Hotline
CM41	Specify the Delayed Hotline activation timer.	• Y=0 (1) 119 (2) 01-30: 1-30 seconds (1 second increments) If no data is set, the default setting is 10 seconds.
CM52	Define the Delayed Hotline pairs.	• Y=00-99 Delayed Hotline Pair No. (1) 0: Calling Side (2) X-XXXXXXXX: Station No. (1) 1: Called Side (2) X-XXXXXXXX: Station No. E000-E007 : ATTCON No. **NOTE:** *Do not assign station number with first digit "0".*
CM12	Assign a Delayed Hotline to the required stations.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 04: Delayed Hotline
A		

A

	DESCRIPTION	DATA
CM71	Allocate the memory area for the Delayed Hotline-Outside call. For example, to assign the 10 Delayed Hotline-Outside calls into No. 100 through No. 109 Memory Slots, 2nd data is "100010". Abbreviated Codes are automatically assigned as shown below:  	(1) 65: For Delayed Hotline-Outside (2) XXX YYY XXX: 000-299: Starting Memory Slot No. in blocks YYY: 001-100: Number of Memory Slots to be assigned in blocks
CM72	Set the outside party's number to each Memory Slot number.	• Y=0 (1) 000-299: Memory Slot No. (2) XXXX + , + YY...Y: Outside Party's No. XXXX : Access Code (Maximum 4 digits) , : Separator Mark YY...Y : Outside Party's No. (Maximum 26 digits) NONE◀: No data • Y=1 (1) 000-299: Memory Slot No. (2) XXX...X: Station Name Character Code (Maximum 32 digits: 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ Page B2 • Y=2 (1) 000-299: Memory Slot No. (2) XXX...X: Station Name Character by MAT/CAT (Maximum 16 characters) NONE◀: No data

END

DELAYED RINGING

PROGRAMMING

START	DESCRIPTION	DATA
CM90	Assign the Delayed Ringing feature to each line key on a D^{term}. **NOTE:** *The Delayed Ringing feature can be assigned to the first 16 line/trunk keys (Key 01-16)/24 line/trunk keys (Key 01-24).*	• Y=03 (1) My Line No. + [,] + Key No. **NOTE** (2) 0: Delayed Ringing
CM41	Specify the timing for Delayed Ringing.	• Y=1 (1) 09 (2) 01-10: 2-20 seconds (2 second increments) If no data is set, the default setting is 10 seconds.
END		

DIAGNOSTICS

PROGRAMMING

Refer to the Maintenance Manual.

DIAL BY NAME

PROGRAMMING

(1) Assignment for Soft Key

START

CM12

DESCRIPTION

Specify that the Soft Key feature is available to each D^{term}.

DATA

- Y=22

(1) X-XXXXXXXX: My Line No.
(2) 0◀: Available

Assign Soft Key Pattern number to each D^{term}.

- Y=23

(1) X-XXXXXXXX: My Line No.
(2) 0 : Pattern No. 0
1 : Pattern No. 1
2 : Pattern No. 2
3◀: Pattern No. 3

CM9A

Assign the Dial By Name function to each Soft Key on idle status of the D^{term}.

The LCD shows a maximum of 4 Soft Keys at once. If assigning more than 4 Soft Keys on one status, it is necessary to assign Scroll key at every 4 keys (on 1st through 4th display).

NOTE 1: *Scroll key must be assigned as a key for each active display.*

NOTE 2: *Help key is only available in Pattern No. 3.*

NOTE 3: *For the Pattern No. 3, the initial Soft Key data for Dial By Name are assigned as follows:*

CM9A Y=03	
1st Data	**2nd Data**
0001	F5014
0002	F5015

NOTE 4: *Pattern No. 3 is fixed.*

NOTE 5: *Dial By Name is available only when the D^{term} is in idle state.*

- Y=00-03 Soft Key Pattern No. 0-3 assigned by CM12 Y=23

(1) 00 bb
00: Status No. (Idle state) **NOTE 5**
bb: 00-15: Soft Key No.
00-03: Indicated on 1st display
04-07: Indicated on 2nd display
08-11: Indicated on 3rd display
12-15: Indicated on 4th display
(2) F5002 : Scroll key to change Soft Key Indication
F5014 : Dial By Name for System Speed Dialing (300-Slot Memory)
F5015 : Dial By Name for Station Speed Dialing
F5016 : Dial By Name for System Speed Dialing (1000-Slot Memory Block No. 0)
F5017 : Dial By Name for System Speed Dialing (1000-Slot Memory Block No. 1)
F5018 : Dial By Name for System Speed Dialing (1000-Slot Memory Block No. 2)
F5019 : Dial By Name for System Speed Dialing (1000-Slot Memory Block No. 3)
NONE◀: No data

A

A

CM9A

CM08

END

DESCRIPTION

Assign the Characters indicated on each status of the D^term, corresponding to the Soft Key function assigned by CM9A Y=00-03. For the Pattern No. 3, the initial Soft Key data for Dial By Name are assigned as follows:

CM9A Y=13	
1st Data	**2nd Data**
0001	SYS.
0002	STA.

Specify whether the system sends SPDT when entering the name/number.
[Series 3100 software required]

Specify the number of character kinds that can be used for the name registration when pressing dial 0 on D^term.
[Series 3500 software required]

DATA

- Y=10-13 Soft Key Pattern No. 0-3 assigned by CM12 Y=23

(1) Same as CM9A Y=00-03
(2) XX...XX: Soft Key name indicated on LCD
(Maximum 12 characters)
NONE◀: No data
See APPENDIX B: Character Code Table.
☞ *Page B2*

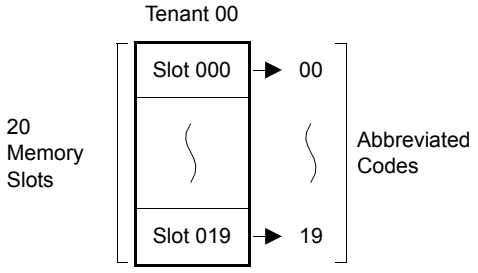
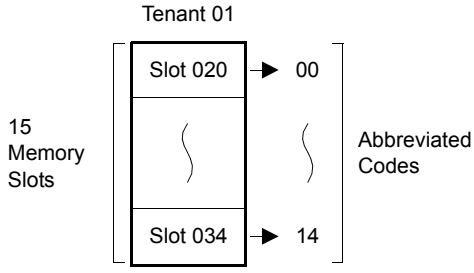
(1) 519
(2) 0 : Not sent
1◀: To send

(1) 559
(2) 0 : 32 characters (See the table below)
1◀: 10 characters (See the table below)

Input Mode	Second data of CM08> 559	Number of Dial 0 pressing															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Alphabet	0	!	”	#	$	%	&	'	(	)	*	+	,	-	.	/	:
		;	<	=	>	?	@	[	¥	]	^	_	'	{	|	}	(space)
	1	(space)	-	_	'	&	@	.	,	:	;						

(2) Assignment for the Memory Allocation and the Station Name

- When using Dial By Name for System Speed Dialing:

START	DESCRIPTION	DATA
CM71	Assign the memory block for System Speed Dialing. 300 memory slots are available per system. The number of slots available for each Tenant is also 300. Abbreviated Call Codes required for accessing this feature are automatically given to each Tenant as shown in the following example.  	(1) 00-63: For stations within the Tenant 00-63 (2) XXX YYY XXX: 000-299: Starting Memory Slot No. in Block YYY: 001-300: Number of Slots to be assigned in Block For example, to provide 20 memory slots starting at Slot 60: Data: 060020
A		

A

	DESCRIPTION	DATA
CM72	Assign the number to be called to the Memory Slot number allocated by CM71.	• Y=0 (1) 000-299: Memory Slot No. (2) Stored No.: Outgoing Access Code (Maximum 4 digits) + [,] + Called Party No. (Maximum 26 digits) To set a pause into the Stored No., enter "C" (Fixed pause=1.5 seconds) or "D" (Programmable pause specified by CM41 Y=0>38) after desired digits (more than 2 digits). NONE◀: No data
	Assign the name for display, to the Memory Slot number allocated by CM71, by character codes or character.	• Y=1 (1) 000-299: Memory Slot No. (2) XX...XX: Station Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=2 (1) 000-299: Memory Slot No. (2) XX...XX: Station Name Character by MAT/CAT (Maximum 16 characters) NONE◀: No data

END

- When using Dial By Name for Station Speed Dialing, D^{term} One Touch Keys, and System Speed Dialing (1000-Slot Memory):

START	DESCRIPTION	DATA
CM73	Allocate the memory area for Station Speed Dialing to each station when using Dial By Name for Station Speed Dialing.	(1) X-XXXXXXXX: Station No. (2) W XX Y ZZ W : 0-9: 1000-Slot Memory Block No. **NOTE** XX: 00-99: Memory Start Block No. (10-Slot Memory Block) Y : Facility for programming the dialed number from the Station 0/1: Effective/Ineffective ZZ : 01-10: Number of 10-Slot Memory Blocks
A		

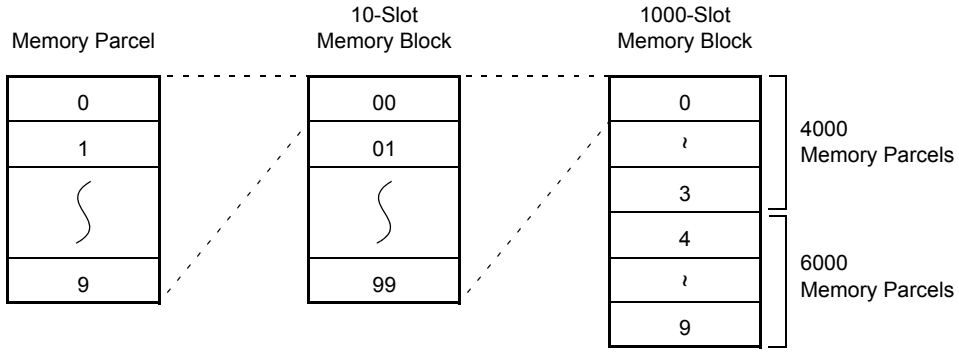
NOTE: *1000-Slot Memory Block number 4-9 (6000 Memory Parcels) cannot be used for Speed Dialing with Station Speed Dialing keys provided by CM90: F11XX on a D^{term}, and cannot also be used for System Speed Dialing.*

A

CM73

DESCRIPTION **DATA**

The memory area for storing one called number of Station Speed Dialing is called a “Memory Parcel”. An assembly of 10 Memory Parcels is called a “10-Slot Memory Block”, and one hundred 10-Slot Memory Blocks are called a “1000-Slot Memory Block”.



Example: If the stored number intended is 10 for Station Number 300, 20 for Station Number 301, and 30 for Station Number 302, the memory areas assignment is as follows.

Station No. (1st Data)	1000-Slot Memory Block No. (2nd Data: W)	Memory Start Block No. (10-Slot Memory Block) (2nd Data: XX)	Number of 10-Slot Memory Block (2nd Data: ZZ)
300	0	00	01
301	0	01	02
302	0	03	03
303	0	06	01

B

B

	DESCRIPTION	DATA
CM94	Allocate the memory area for Station Speed Dialing to each station when using Dial By Name for D^{term} One Touch Keys. The same memory area must be assigned on CM73 and CM94.	(1) X-XXXXXXXX: My Line No. (2) W XX 0 ZZ W : 0-9: 1000-Slot Memory Block No. XX: 00-99: 10-Slot Memory Start Block No. ZZ : 01-10: Number of 10-Slot Memory Blocks

NOTE 1: *When Dial By Name is provided using the One Touch Keys, the same memory area must be specified by CM73 and CM94.*

NOTE 2: *If the station number is assigned to One Touch Keys using 1000-Slot Memory Block number 4-9, the lamp does not show the busy state.*

CM08	Specify the memory area to be used for System Speed Dialing when using Dial By Name for System Speed Dialing (1000-Slot Memory).	(1) 112: 1000-Slot Memory Block No. 0 (2) 0 : Available 1◀: Not available (1) 111: 1000-Slot Memory Block No. 1 (2) 0 : Available 1◀: Not available (1) 176: 1000-Slot Memory Block No. 2 (2) 0 : Available 1◀: Not available (1) 110: 1000-Slot Memory Block No. 3 (2) 0 : Available 1◀: Not available

C

C

CM74

DESCRIPTION	DATA
Assign the number to be dialed to each Memory Slot number, if required. The numbers to be called are usually set from individual stations by their station users.	• Y=0 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) Stored No.: Outgoing Access Code (Maximum 4 digits) + [,] + Called Party No. (Maximum 26 digits) To set a pause into the Stored No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0>38) after desired digits. NONE◀: No data
Assign the station name to be displayed to each Memory Slot number, by character codes or character.	• Y=1 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ Page B2 • Y=2 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character by MAT/CAT (Maximum 16 characters) NONE◀: No data

END

HARDWARE REQUIRED

D^{term} with LCD and Soft Key, and DLC card

DIAL CONVERSION

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the card number of the DTMF Receiver to the required LEN. **NOTE:** *E200 is dedicated to built-in DTMF Receiver of the MP card.*	(1) 000-763: LEN (2) Card No. of DTMF Receiver (8RST) For PIM0/1 : E201-E203 For PIM2/3 : E204-E207 For PIM4/5 : E208-E211 For PIM6/7 : E212-E215
CM14	Assign the card number of the DTMF Receiver to the required LEN. **[Series 3200 R6.2 software required]** **NOTE:** *E200 is dedicated to built-in DTMF Receiver of the MP card.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) Card No. of DTMF Receiver (8RST) For FP No. 00 : E201-E203 For FP No. 01 : E204-E207 For FP No. 02 : E208-E211 For FP No. 03 : E212-E215
CM12	Assign the type of telephone set to DTMF stations. This data assignment is not required for D^{term} stations.	• Y=00 (1) X-XXXXXXXX: Station No. (2) 2: DTMF Telephone set
CM45	Assign DTMF Receivers for use with DTMF stations.	• Y=0 Make Busy (1) XX Z XX: DTMF Receiver Card No. 00: MP Built-in DTMF Receiver 01-15: PN-8RST Z : 0-3: Circuit No. (2) 1◀: In service • Y=1 PBR for incoming call from Tie Line/ DID (1) XX Z: Same as CM45 Y=0 (2) 1◀: For both DTMF station and Tie Line/ DID
A		

A

CM35

DESCRIPTION	DATA
For a DP trunk, assign the type of signaling for Outgoing and Bothway trunk routes to DP.	• Y=01 (1) 00-63: Trunk Route No. (2) <Incoming> <Outgoing> 2: DP DP
Specify the DP Sender characteristics to match the Central Office.	• Y=23 DP Sender Inter Digital Pause (1) 00-63: Trunk Route No. (2) 0 : 300 ms. 1 : 400 ms. 2 : 500 ms. 3 : 600 ms. 4 : 700 ms. 5 : 900 ms. 6 : 1100 ms. 7◀: 800 ms.
	• Y=25 DP Sender Make Ratio (1) 00-63: Trunk Route No. (2) 0 : 39 % 1◀: 33 %
	• Y=45 DP Sender Release Timing (1) 00-63: Trunk Route No. (2) 0 : 2 seconds 1 : 4 seconds 2 : 6 seconds 3 : 8 seconds 4 : 12 seconds 5 : 14 seconds 6 : 16 seconds 7◀: 10 seconds
For a DTMF trunk, assign the type of signaling for Outgoing and Bothway trunk routes to DTMF.	• Y=01 (1) 00-63: Trunk Route No. (2) <Incoming> <Outgoing> 7◀: DTMF/DP DTMF

B

	DESCRIPTION	DATA
B		
CM35	Specify the DTMF Sender characteristics to match the Central Office.	• Y=24 DTMF Inter Digital Pause (1) 00-63: Trunk Route No. (2) 0 : 32 ms. 1 : 64 ms. 2 : 80 ms. 3 : 96 ms. 4 : 160 ms. 5 : 192 ms. 6 : 240 ms. 7◀: 128 ms. • Y=26 DTMF Sender Signal Width (1) 00-63: Trunk Route No. (2) 0 : 64 ms. 1◀: 128 ms. • Y=46 DTMF Sender Release Timing (1) 00-63: Trunk Route No. (2) 0 : 2 seconds 1 : 4 seconds 2 : 6 seconds 3 : 8 seconds 4 : 12 seconds 5 : 14 seconds 6 : 16 seconds 7◀: 10 seconds
CM08	Assign whether "*" or "#" from a DTMF Telephone is used as a Switch Hook Flash while hearing Busy Tone.	(1) 050: * is used as Switch Hook Flash (2) 0: Effective (1) 051: # is used as Switch Hook Flash (2) 0: Effective
END		

HARDWARE REQUIRED

DTMF Receiver (8RST card) × n
n: Depends on the number of DTMF stations and the traffic condition of the system.

DIRECT DIGITAL INTERFACE

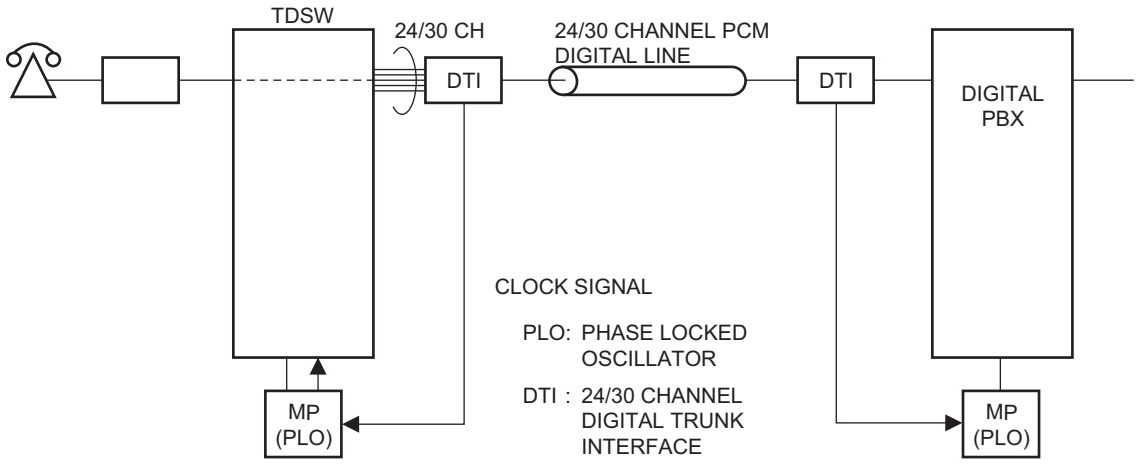
SYSTEM OUTLINE

The PBX is equipped with Direct Digital Interface which can be interfaced with a Tie Line or Public Network of

- 24-channel PCM Digital Line (1.544 MHz)
- 30-channel PCM Digital Line (2.048 MHz)

To add a Direct Digital Interface to the system, it is necessary to install a DTI (Digital Trunk Interface) card. Figure below shows the system outline of the Direct Digital Interface of the PBX.

System Outline of Direct Digital Interface



DTI

The Digital Trunk Interface (DTI) interfaces the PBX directly to a 24/30-channel PCM transmission line. The DTI has the following functions.

For 24DTI:

- Unipolar/Bipolar Conversion (AMI Format)
- Signaling Insertion/Extraction
- Alarm Detection/Insertion
- Digital PAD on Voice Signal Transmission
- Loopback Test (Local/Remote Loopback)
- Cyclic Redundancy Checking (based on ITU-T Rec. G704)

For 30DTI:

- Unipolar/Bipolar Conversion (HDB3 Format)
- Signaling Insertion/Extraction
- Alarm Detection/Insertion
- Digital PAD on Voice Signal Transmission
- Loopback Test (Local/Remote Loopback)
- Cyclic Redundancy Checking (based on ITU-T Rec. G704)
- Channel Associated Signaling (based on ITU-T Rec. Q421 Digital R2 Signaling Code)

For connection of a 24DTI and transmission line, twisted-pair cables can be used. For connection of a 30DTI and transmission line, either coaxial cable or twisted pair cable can be used.

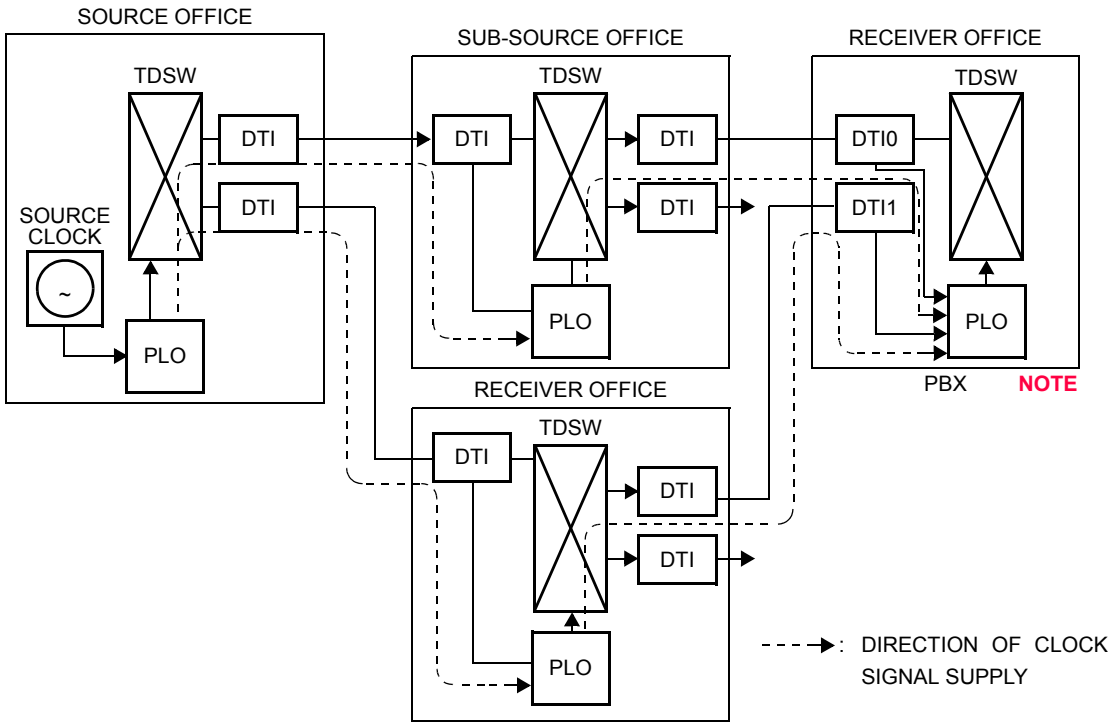
PLO

The PLO (Phase Locked Oscillator) equipped on the MP card is responsible to synchronize the system to the digital network clock.

When the PBX is a clock receiver office, the PLO generates the clock signals according to the source clock received from the source office within the network. The source clock signals are extracted at DTI cards and supplied to the PLO. Two clock routes are available; one is the route 0 from the source office, and the other is a standby route 1 from a sub-source office. When no clock signals arrive from either route 0 or route 1 due to a transmission line failure, the PLO keeps generating the clock signals at the frequency of the last source clock. The PLO can receive different frequency of source clocks from route 0 and route 1.

Figure below shows an example of clock supply route when the system is a receiver office.

Clock Supply Route



NOTE: *DTI0 and DTI1 must be mounted in PIM0.*

SYSTEM CAPACITY

System Capacity for Direct Digital Interface

DESCRIPTION	CAPACITY	
	24DTI	30DTI
DTI Card	8	8
DTI Trunk	192	248
DTI Trunk Route	64	64
Ports per DTI Card	24	31

HARDWARE REQUIRED

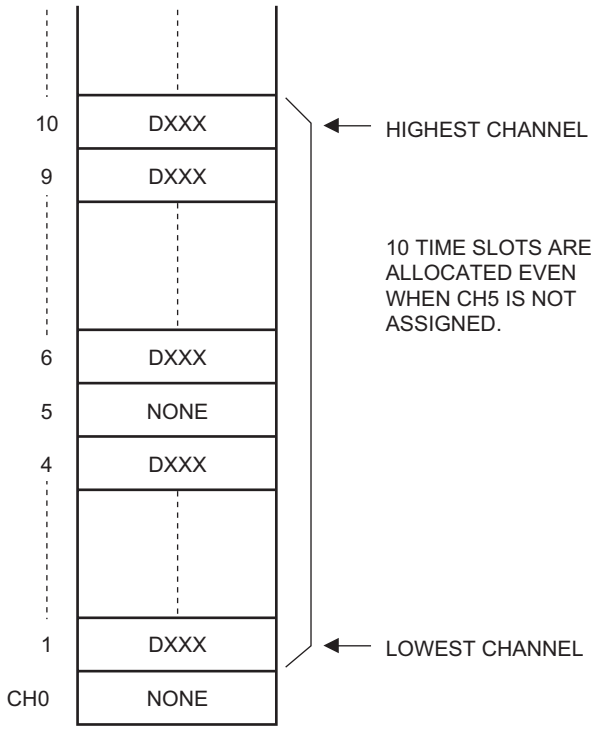
DTI card
MP (Internal PLO) card

TIME SLOT ALLOCATION

On each DTI card, the system recognizes the lowest and highest channel numbers to which trunk numbers have been assigned, and allocates time slots to all the channels between them. If trunk numbers are not assigned to consecutive channels, the system allocates time slots to channels not assigned.

For example, as shown below, even when Channel 1 through Channel 10 have been assigned by the system data programming (CM07 Y=01) except for Channel 5, the system allocates a total of 10 time slots for all ten channels. Therefore, to avoid unnecessary allocation of time slots, it is recommended that consecutive channels be assigned on each DTI card.

Time Slot Allocation for DTI



DTI SPECIFICATIONS

Transmission Characteristics

Transmission Characteristics

CHARACTERISTICS	24-CHANNEL	30-CHANNEL
(1) Output		
• Line Rate	1.544 Mbps ±50 ppm	2.048 Mbps ±50 ppm
• Line Code	AMI with ZCS/B8ZS*	HDB3 (High Density Bipolar 3)
• Line Impedance	100 Ω	75 Ω (Coaxial Cable) 120 Ω (Twisted-Pair Cable)
• Pulse Amplitude (Base to Peak)	3 volts ±0.6 volts	2.37 volts nominal (Coaxial Cable) 3 volts nominal (Twisted-Pair Cable)
• Pulse Width	324 ns ±30 ns	244 ns nominal
(2) Input		
• Line Rate	1.544 Mbps ±200 bps (130 ppm)	2.048 Mbps ±50 ppm
• Pulse Amplitude (Base to Peak)	1.5 volts-3 volts	1.5 volts-2.7 volts (Coaxial Cable) 1.5 volts-3.3 volts (Twisted-Pair Cable)
• Frame Synchronization Pattern	100011011100	
• Input Jitter	ITU-T Fig. 1/G743	ITU-T Fig. 1/G743
• Wander	+138UI, –193UI or –138UI, +193UI	ITU-T G823
• Cable Length from PBX to CSU	Maximum 200 m (655 ft.) [with 0.6 ϕ (22 ABAM) twisted-pair cable]	Maximum 400 m (1310 ft.) (with 0.6 ϕ twisted-pair cable)

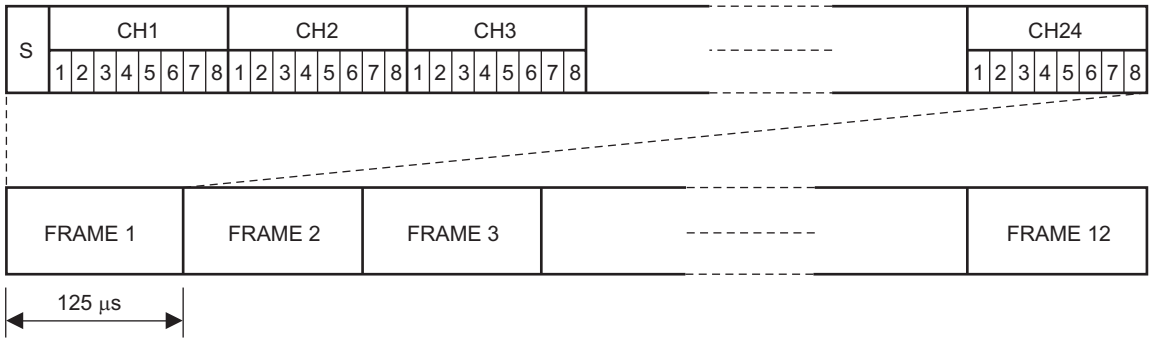
* AMI : Alternate Mark Inversion
ZCS : Zero Code Suppression
B8ZS: Bipolar Eight Zero Substitution

Frame Configuration of 24DTI

According to the AT&T Specifications for 24-channel transmission, there are two types of frame configurations: 12-Multi Frame (D4) and 24-Multi Frame (ESF).

1. 12-Multi Frame
   This configuration has 12-Multi Frames, and each Multi frame has a 24-channel PCM signal (8 bits/channel) and a S bit (Super Frame Bit). Figure below shows the frame configuration, and Table in next page shows frame bit assignment.

DTI Frame Configuration (12-Multi Frame)



S: SUPERFRAME BIT

12-Multi Frame Bit Assignment

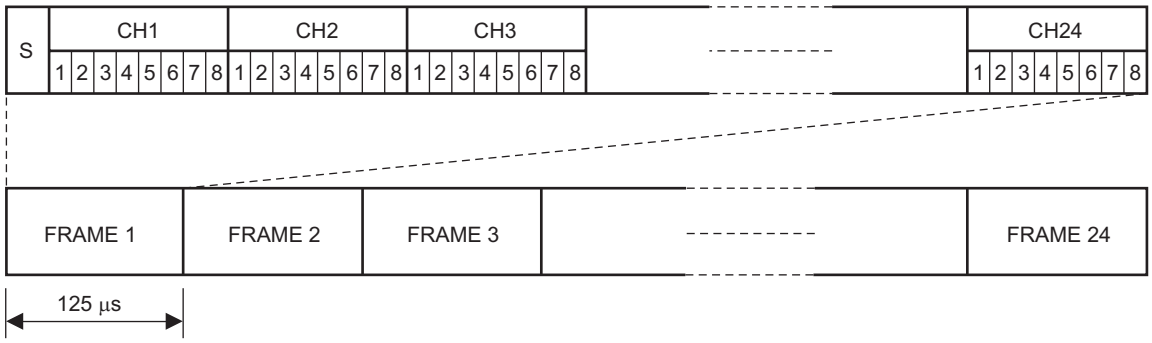
FRAME No.	S BIT		BIT No. OF EACH CHANNEL (CH1-CH24)		SIGNAL CHANNEL
	TERMINAL SYNCHRONIZATION (FT)	SIGNAL SYNCHRONIZATION (FS)	INFORMATION SIGNAL BIT	CONTROL SIGNAL BIT	
1	1		1-8		
2		0	1-8		
3	0		1-8		
4		0	1-8		
5	1		1-8		
6		1	1-7	8	A
7	0		1-8		
8		1	1-8		
9	1		1-8		
10		1	1-8		
11	0		1-8		
12		0	1-7	8	B

* The S-bit is the first bit in each frame.
* Frames are repeated in the order shown above.
* Frames 6 and 12 become signal frames.

2. 24-Multi Frame

This configuration has 24-Multi Frames and each Multi frame has a 24-Channel PCM signal (8 bits/channel) and a S bit (Super Frame Bit). Figure below shows the frame configuration, and Table in next page shows frame bit assignment.

DTI Frame Configuration (24-Multi Frame)



S: SUPERFRAME BIT

24-Multi Frame Bit Assignment

FRAME No.	S BIT			BIT No. OF EACH CHANNEL (CH1-CH24)		SIGNAL CHANNEL
	FRAME SYNCHRONIZATION	4 Kbps DATA LINK	CRC	INFORMATION SIGNAL BIT	CONTROL SIGNAL BIT	
1		m		1-8		
2			CB1	1-8		
3		m		1-8		
4	0			1-8		
5		m		1-8		
6			CB2	1-7	8	A
7		m		1-8		
8	0			1-8		
9		m		1-8		
10			CB3	1-8		
11		m		1-8		
12	1			1-7	8	B
13		m		1-8		
14			CB4	1-8		
15		m		1-8		
16	0			1-8		
17		m		1-8		
18			CB5	1-7	8	C
19		m		1-8		
20	1			1-8		
21		m		1-8		
22			CB6	1-8		
23		m		1-8		
24	1			1-7	8	D

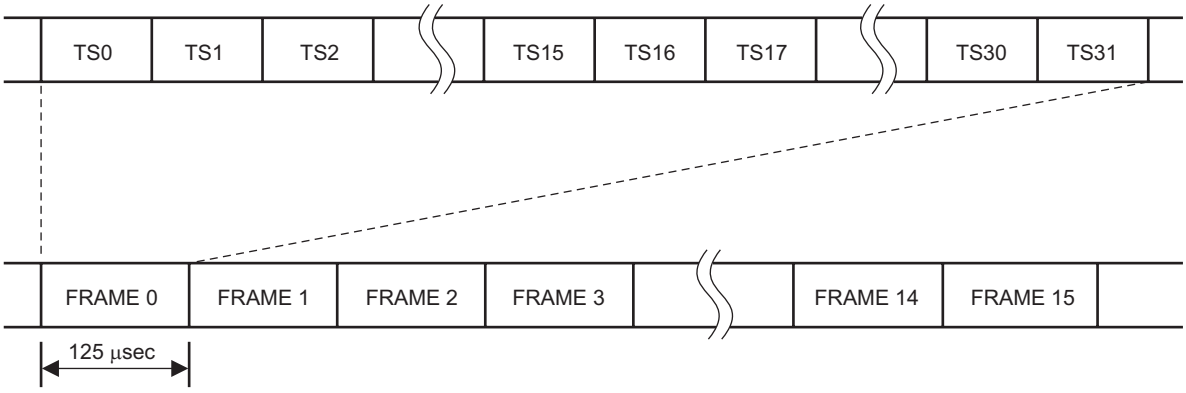
* The S-bit is the first bit in each frame.
* Frames are repeated in the order shown above.
* Frames 6, 12, 18 and 24 become signal frames.
* “m” in the “4 Kbps Data Link” column means that the frame is usually assigned to 1.

Frame Configuration of 30DTI

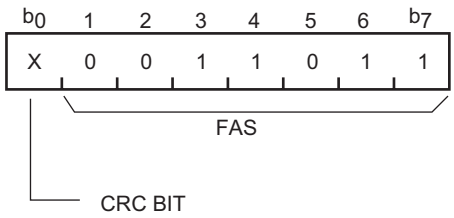
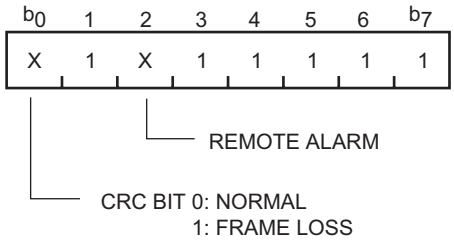
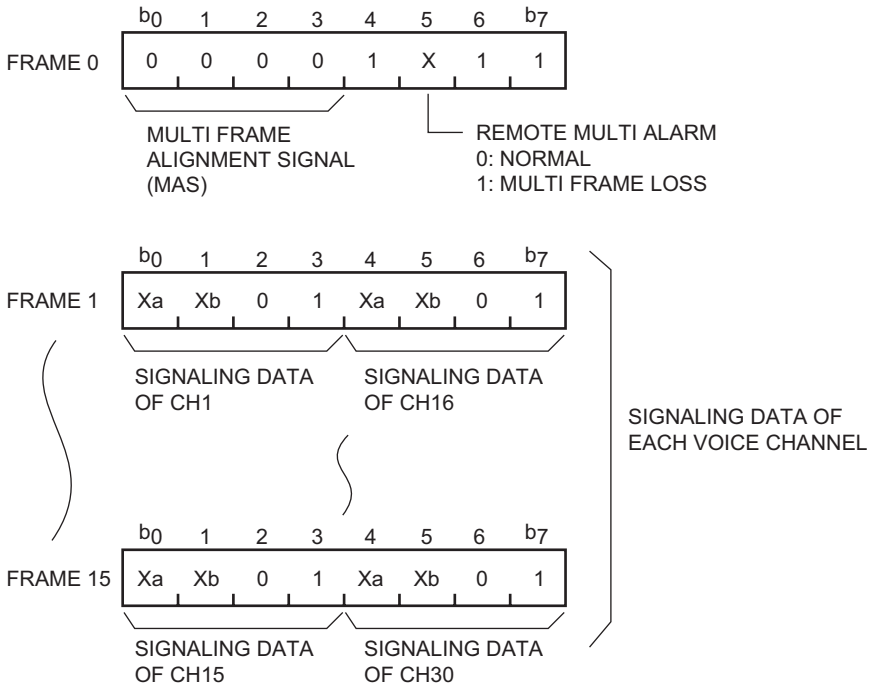
Based on 30-channel transmission method of ITU-T Specification, the frame configuration consists of 16-multi frame, each frame having 31 time slots.

Figure below shows the frame configuration, and Table in next page shows the details of time slot assignment.

Frame Configuration of 30DTI



Time Slot Assignment of 30DTI

<table>
<tr><th>TIME SLOT No.</th><th>EVEN No. FRAME</th><th>ODD No. FRAME</th></tr>
<tr><td>TS0</td><td>Frame Alignment Signal (FAS)
 
</td><td> 
</td></tr>
<tr><td>TS1-TS15</td><td colspan="2">Voice Channel
CH1-CH15</td></tr>
<tr><td>TS16</td><td colspan="2">• Associated Channel Signaling:
 
</td></tr>
<tr><td>TS17-TS31</td><td colspan="2">Voice Channel
CH17-CH31</td></tr>
</table>

PROGRAMMING

24DTI Assignment

NOTE: *When using PN-24PRTA card and PN-DTA card, the following switch setting is required to set T1 interface.*
- *For PN-24PRTA card, set the SW1-1 switch on the PN-24PRTA card to ON.*
- *For PN-DTA card, set the SW3-1 switch and SW3-2 switch on the PN-DTA card as follows. SW3-1: ON (T1 mode), SW3-2: OFF (DTI mode)*

(1) Tie Line Interface

START	DESCRIPTION	DATA
CM05	Assign an AP number to the DTI card. The AP number must match the SENSE switch setting on the DTI card. (INITIAL)	• Y=0 (1) 04-15, 20-31: AP No. (2) 09: DTI card
	Specify the AP highway channel for 24DTI card. (INITIAL)	• Y=1 (1) 04-15, 20-31: AP No. (2) 0 : Use Expanded Highway channel (128 time slots) 1◀: Use Basic Highway channel (128 time slots)
CM07	Assign trunk numbers to each channel number on the DTI card. (INITIAL) The system allocates time slots to consecutive channels from the lowest to the highest channel number assigned. To minimize the number of time slots allocated, assign trunk numbers to consecutive channels on each card. Never skip channels in CM07.	• Y=01 (1) XX ZZ XX: 04-15, 20-31: AP No. assigned by CM05 Y=0 ZZ : 00-23: Channel No. of 24DTI (2) D000-D255: Trunk No. Any trunk number already assigned by CM10/CM14 cannot be used.
A		

A

	DESCRIPTION	DATA
CMAA	Assign the necessary functions to the DTI card. (DTI INITIAL) After entering the data, set the MB switch on the DTI card to UP, and then to DOWN, for DTI initialization. **NOTE:** *The following table shows the relationship between CMAA Y=01 and CMAA Y=02.*	• Y=00 Data Mode (1) 04-15, 20-31: AP No. assigned by CM05 Y=0 (2) 0: Based on AT&T Specifications • Y=01 Frame Configuration (1) 04-15, 20-31: AP No. assigned by CM05 Y=0 (2) 0 : 12-Multi Frame (D4) 1◀: 24-Multi Frame (ESF) • Y=02 Zero Code Suppression (1) 04-15, 20-31: AP No. assigned by CM05 Y=0 (2) 0 : Available (Non Transparent) 1◀: Not available (Transparent) • Y=03 (1) 04-15, 20-31: AP No. assigned by CM05 Y=0 (2) 7◀: Associated Channel Interoffice Signaling
CM30	Assign a trunk route number for tie line interface to each DTI. **NOTE:** *The DTI route must be separated from any analog trunk route.*	• Y=00 (1) 000-255: Trunk No. assigned by CM07 Y=01 (2) 00-63: Trunk Route No.
CM35	Assign trunk route data to each DTI route.	• Y=00 Kind of Trunk Route (1) 00-63: Trunk Route No. (2) 04: Tie line trunk

CMAA Y=01 (FRAME CONFIGURATION)	CMAA Y=02 (ZERO CODE SUPPRESSION)	SIGNALING
24-Multi Frame [1]		B8ZS
12-Multi Frame [0]	Not available [1]	Transparent
	Available [0]	B7

[ ]: Indicates 2nd data

Select the card for DTI T1 interface.
(INITIAL)

• Y=14
(1) 04-15, 20-31: AP No. assigned by CM05 Y=0
(2) 0 : PN-24PRTA/PN-DTA
1◀: PN-24DTA-C

B

B

CM35

DESCRIPTION

DATA

- Y=01 Dialing signal type

(1) 00-63: Trunk Route No.
(2) 7◀: DP/DTMF (Incoming)
DTMF (Outgoing)

- Y=04 Answer signal from distant office

(1) 00-63: Trunk Route No.
(2) 2: Answer signal arrives

- Y=05 Release signal from distant office

(1) 00-63: Trunk Route No.
(2) 1◀: Release signal arrives

- Y=09 Incoming connection signaling

(1) 00-63: Trunk Route No.
(2) 03: Wink Start
04: Delay Dial
05: Immediate Start
06: 2nd DT/Timing Start-Tie line

CM35 Y=19 DTI PAD

CONNECTION PATTERNS	PAD DATA OF DTI [dB]			
	DAT A=4 (T/R)	DAT A=5 (T/R)	DAT A=6 (T/R)	DAT A=7 (T/R)
Station-DTI	–3/–8	–3/–3	–3/–3	–3/–8
Tone-DTI	0/0	0/0	0/0	0/0
COT/DID/ODT (2W E&M)/IPT-DTI	0/0	0/0	0/0	0/0
ODT (4W E&M)-DTI	+3/–3	0/0	0/0	+3/–3
DTI/BRT/PRT/ CCT/Virtual IPT-DTI	0/–6	0/0	0/–6	0/0

T/R: Transmitter PAD/Receiver PAD
+ : Gain
– : Loss

- Y=19 DTI PAD

(1) 00-63: Trunk Route No.
(2) 0-3 : Programmable PAD (See CM42)
4-7◀: Fixed PAD (See left table)

- Y=20 Sender start condition

(1) 00-63: Trunk Route No.
(2) 00 : Wink Start
01 : Delay Dial
02 : Ground Start
15◀: Timing Start

C

C

CM42

DESCRIPTION	DATA
To use the programmable PAD (CM35 Y=19, 2nd Data=0-3), assign the PAD data by CM42.	(1) 50-65: See the table below. (2) 00-15: See the table below.

PATTERNS / 1ST DATA	PAD DATA PATTERNS				CONNECTING PATTERNS
	CM35 Y=19 2ND DATA=0	CM35 Y=19 2ND DATA=1	CM35 Y=19 2ND DATA=2	CM35 Y=19 2ND DATA=3	
50 ≀ 65	50	54	58	62	STA/TONE-DTI
	51	55	59	63	COT/DID/IPT-DTI
	52	56	60	64	ODT (4W E&M)-DTI
	53	57	61	65	DTI/BRT/PRT/CCT/Virtual IPT/CFTC-DTI

PATTERNS / 2ND DATA		PAD DATA OF DTI (T/R) [dB]	REMARKS
00 ≀ 15	00	0/0	
	01	–2/–2	
	02	–3/–3	
	03	0/–6	
	04	–3/–8	
	05	+3/–3	
	06	–6/–6	
	07	–8/–8	
	08 ≀ 15	Not Used	

T/R: Transmitter PAD/Receiver PAD
+ : Gain
– : Loss

D

	DESCRIPTION	DATA
D		
CM41	Specify the various timing, if required.	• Y=3 (1) 00: Release Signal Detect Timing (2) 01-15: 64-960 ms. (64 ms. increments) If no data is set, the default setting is 128 ms. • Y=3 (1) 01: Answer Signal Detect Timing (2) 01-15: 32-480 ms. (32 ms. increments) If no data is set, the default setting is 128 ms. • Y=3 (1) 02: Wink Signal width (2) 01-15: 64-512 ms. (32 ms. increments) If no data is set, the default setting is 32 ms. • Y=3 (1) 03: Wink/Delay Detection Timeout (2) 01-15: 1-15 seconds (1 second increments) If no data is set, the default setting is 7 seconds.
CM20	Assign an access code for the DTI trunk route. **NOTE:** *The Least Cost Routing or Route Advance feature is available for call origination via the DTI. Refer to the following feature programming.* *LEAST COST ROUTING-3/6 DIGIT* ☞ Page 425 *ROUTE ADVANCE* ☞ Page 599	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) 100-163: Trunk Route 00-63
END		

(2) C.O. Line Interface

START	DESCRIPTION	DATA
CM05	Assign an AP number to the DTI card. The AP number must match the SENSE switch setting on the DTI card. (INITIAL)	• Y=0 (1) 04-15, 20-31: AP No. (2) 09: DTI card
	Specify the AP highway channel for 24DTI card. (INITIAL)	• Y=1 (1) 04-15, 20-31: AP No. (2) 0 : Use Expanded Highway channel (128 time slots) 1◀: Use Basic Highway channel (128 time slots)
CM07	Assign trunk numbers to each channel number on the DTI card. (INITIAL)	• Y=01 (1) XX ZZ XX: 04-15, 20-31: AP No. assigned by CM05 Y=0 ZZ : 00-23: Channel No. of 24DTI (2) D000-D255: Trunk No. Any trunk number already assigned by CM10/CM14 cannot be used.
	The system allocates time slots to consecutive channels from the lowest to highest channel number assigned. To minimize the number of time slots allocated, assign trunk numbers to consecutive channels on each card. Never skip channels in CM07.	
A		

A

CMAA

B

DESCRIPTION

Assign the necessary functions to the DTI card.

(DTI INITIAL)

After entering the data, set the MB switch on the DTI card to UP, and then to DOWN, for DTI initialization.

NOTE: *The following table shows the relationship between CMAA Y=01 and CMAA Y=02.*

CMAA Y=01 (FRAME CONFIGURATION)	CMAA Y=02 (ZERO CODE SUPPRES-SION)	SIGNALING
24-Multi Frame [1]		B8ZS
12-Multi Frame [0]	Not available [1]	Transparent
	Available [0]	B7

[ ]: Indicates 2nd data

Select the card for DTI T1 interface.

(INITIAL)

DATA

- Y=00 Data Mode

(1) 04-15, 20-31: AP No. assigned by CM05 Y=0

(2) 0: Based on AT&T Specifications

- Y=01 Frame Configuration

(1) 04-15, 20-31: AP No. assigned by CM05 Y=0

(2) 0 : 12-Multi Frame (D4)
1◀: 24-Multi Frame (ESF)

- Y=02 Zero Code Suppression

(1) 04-15, 20-31: AP No. assigned by CM05 Y=0

(2) 0 : Available (Non Transparent)
1◀: Not available (Transparent)

- Y=03

(1) 04-15, 20-31: AP No. assigned by CM05 Y=0

(2) 7◀: Associated Channel Interoffice Signaling

- Y=14

(1) 04-15, 20-31: AP No. assigned by CM05 Y=0

(2) 0 : PN-24PRTA/PN-DTA
1◀: PN-24DTA-C

B

CM30

DESCRIPTION	DATA
Assign a trunk route number for C.O. line Interface to each DTI. **NOTE:** *The DTI route must be different than any analog trunk route.*	• Y=00 (1) 000-255: Trunk No. assigned by CM07 Y=01 (2) 00-63: Trunk Route No.
Specify the terminating system in Day Mode or Night Mode, Mode A, or Mode B for incoming C.O. calls.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. assigned by CM07 Y=01 (2) 02 : Trunk-Direct Appearances 03 : Trunk-Direct Appearances + TAS 04 : Direct-In Termination 08 : Dial-in 09 : Automated Attendant 10 : Attendant Console + TAS 11 : Attendant Console + Trunk-Direct Appearances 12 : Attendant Console + Trunk-Direct Appearances + TAS 13 : TAS 14 : Attendant Console 16 : DISA 18 : ISDN Indial 31◀: DID, Tie Line and any call which is not handled by PBX

C

C

CM35

DESCRIPTION	DATA
Assign trunk route data to each DTI route.	• Y=00 Kind of Trunk Route (1) 00-63: Trunk Route No. (2) 00: DDD (C.O./DID) trunk 01: FX trunk 02: WATS trunk 03: CCSA trunk 04: Tie line trunk • Y=01 Dialing signal type (1) 00-63: Trunk Route No. (2) Incoming / Outgoing 2 : DP / DP 4 : DTMF / DTMF 7◀: DP/DTMF / DTMF • Y=04 Answer signal from distant office (1) 00-63: Trunk Route No. (2) 2 : Answer signal arrives 7◀: Answer signal does not arrive • Y=05 Release signal from distant office (1) 00-63: Trunk Route No. (2) 0 : Release signal does not arrive (Loop Start C.O. line without Release signal) 1◀: Release signal arrives (Ground Start/ Loop Start with Release signal) • Y=09 Incoming connection signaling (1) 00-63: Trunk Route No. (2) 01 : Ring Down (Ground Start C.O. line) 15◀: Ring Down (Loop Start C.O. line) • Y=20 Sender start condition (1) 00-63: Trunk Route No. (2) 02 : Ground Start 15◀: Timing Start (Loop Start)

D

D

CM41

E

DESCRIPTION	DATA
Specify the various timing for the DTI trunk, if required.	• Y=3 (1) 04: Ringing Signal Detect Timing (2) 01-15: 32-480 ms. (32 ms. increments) If no data is set, the default setting is 192 ms. • Y=3 (1) 05: Release Signal Detect Timing (2) 01-15: 64-960 ms. (64 ms. increments) If no data is set, the default setting is 512 ms. • Y=3 (1) 06: Answer Signal Detect Timing (2) 01-15: 64-960 ms. (64 ms. increments) If no data is set, the default setting is 576 ms. • Y=3 (1) 07: Ringing Signal Detect Time out (2) 01-15: 512-7680 ms. (512 ms. increments) If no data is set, the default setting is 7,168 ms. • Y=3 (1) 08: Guard Timing of DTI release (2) 01-15: 128-1920 ms. (128 ms. increments) If no data is set, the default setting is 512 ms. • Y=3 (1) 09: Hooking Signal sending timing (2) 01-15: 64-960 ms. (64 ms. increments) If no data is set, the default setting is 640 ms.

E

CM41

DESCRIPTION	DATA
	• Y=3 (1) 10: Ground Start Release (Loop off) Detect Timing (2) 01-15: 64-960 ms. (64 ms. increments) If no data is set, the default setting is 384 ms.
	• Y=3 (1) 11: Ground Start Release (Ground off) Detect Timing (2) 01-15: 64-960 ms. (64 ms. increments) If no data is set, the default setting is 384 ms.
	• Y=3 (1) 12: Ground Start (Return Ground) Detect Time out (2) 01-15: 1-15 seconds (1 second increments) If no data is set, the default setting is 7 seconds.
CM20 Assign an access code for the DTI trunk route used as a C.O. line interface.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) 100-163: Trunk Route 00-63
NOTE: *The Least Cost Routing or Route Advance feature is also available for call origination via the DTI. Refer to the following feature programming.* *LEAST COST ROUTING-3/6 DIGIT* ☞ Page 425 *ROUTE ADVANCE* ☞ Page 599	

END

30DTI Assignment

NOTE: *When using the PN-DTA card, the following switch setting is required to set E1 interface.*
SW3-1: OFF (E1 mode), SW3-2: OFF (DTI mode)

START	DESCRIPTION	DATA
CM05	Assign an AP number to the DTI card. The AP number assigned must match the SENSE switch setting on the DTI card. (INITIAL)	• Y=0 (1) 04-15, 20-31: AP No. (2) 09: DTI card
	Specify the AP highway channel for 30DTI card. (INITIAL)	• Y=1 (1) 04-15, 20-31: AP No. (2) 0 : Use Expanded Highway channel (128 time slots) 1◀: Use Basic Highway channel (128 time slots)
CM07	Assign trunk number to each channel number on the DTI card. Channel 0 and 16 cannot be assigned. (INITIAL) **NOTE:** *The system allocates time slots to consecutive channels from lowest to the highest channel number assigned.* *To minimize the number of time slots allocated, assign trunk numbers to consecutive channels on each card.* *Never skip channels in CM07.*	• Y=01 (1) XX ZZ XX: 04-15, 20-31: AP No. assigned by CM05 Y=0 ZZ : 01-15, 17-31: Channel No. of 30DTI (2) D000-D255: Trunk No. Any trunk number already assigned by CM10/CM14 cannot be used.
CM30	Assign a trunk route number to each DTI. **NOTE:** *DTI route must be separated from any analog trunk route.*	• Y=00 (1) 000-255: Trunk No. assigned by CM07 Y=01 (2) 00-63: Trunk Route No.
A		

A

CM35

DESCRIPTION

Assign the trunk route data to each DTI route.

CM35 Y=19 DTI PAD

CONNECTION PATTERNS	PAD DATA OF DTI [dB]			
	DAT A=4 (T/R)	DAT A=5 (T/R)	DAT A=6 (T/R)	DAT A=7 (T/R)
Station-DTI	–3/–8	–3/–3	–3/–3	–3/–8
Tone-DTI	0/0	0/0	0/0	0/0
COT/DID/ODT (2W E&M)/IPT-DTI	0/0	0/0	0/0	0/0
ODT (4W E&M)-DTI	+3/–3	0/0	0/0	+3/–3
DTI/BRT/PRT/ CCT/Virtual IPT-DTI	0/–6	0/0	0/–6	0/0

T/R: Transmitter PAD/Receiver PAD
\+ : Gain
– : Loss

DATA

- Y=00 Kind of Trunk Route

(1) 00-63: Trunk Route No.
(2) 04: Tie line trunk

- Y=01 Dialing signal type

(1) 00-63: Trunk Route No.
(2) 7◀: DP/DTMF (Incoming)
DTMF (Outgoing)

- Y=04
Answer signal from distant office

(1) 00-63: Trunk Route No.
(2) 2: Answer signal arrives

- Y=05 Release signal from distant office

(1) 00-63: Trunk Route No.
(2) 1◀: Release signal arrives

- Y=09 Incoming connection signaling

(1) 00-63: Trunk Route No.
(2) 03: Wink Start
04: Delay Dial
05: Immediate Start
06: 2nd DT/Timing Start-Tie line

- Y=19 DTI PAD

(1) 00-63: Trunk Route No.
(2) 0-3 : Programmable PAD (See CM42)
4-7◀: Fixed PAD (See left table)

- Y=20 Sender start condition

(1) 00-63: Trunk Route No.
(2) 00 : Wink Start
01 : Delay Dial
02 : Ground Start
15◀: Timing Start

- Y=89 Cyclic Redundancy Checking for DTI trunk

(1) 00-63: Trunk Route No.
(2) 0: To provide

B

B

CM42

DESCRIPTION	DATA
To use the programmable PAD (CM35 Y=19, 2nd Data=0-3), assign the PAD data by CM42.	(1) 50-65: See the table below. (2) 00-15: See the table below.

PATTERNS / 1ST DATA	PAD DATA PATTERNS				CONNECTING PATTERNS
	CM35 Y=19 2ND DATA=0	CM35 Y=19 2ND DATA=1	CM35 Y=19 2ND DATA=2	CM35 Y=19 2ND DATA=3	
50	50	54	58	62	STA/TONE-DTI
≀	51	55	59	63	COT/DID/IPT-DTI
65	52	56	60	64	ODT (4W E&M)-DTI
	53	57	61	65	DTI/BRT/PRT/CCT/Virtual IPT/CFTC-DTI

PATTERNS / 2ND DATA		PAD DATA OF DTI (T/R) [dB]	REMARKS
00	00	0/0	
	01	–2/–2	
	02	–3/–3	
	03	0/–6	
≀	04	–3/–8	
15	05	+3/–3	
	06	–6/–6	
	07	–8/–8	
	08 ≀ 15	Not Used	

T/R: Transmitter PAD/Receiver PAD
+ : Gain
– : Loss

C

	DESCRIPTION	DATA
C		
CM41	Specify the various timing parameters, if required.	• Y=3 (1) 00: Release Signal Detect Timing (2) 01-15: 64-960 ms. (64 ms. increments) If no data is set, the default setting is 128 ms. • Y=3 (1) 01: Answer Signal Detect Timing (2) 01-15: 32-480 ms. (32 ms. increments) If no data is set, the default setting is 128 ms. • Y=3 (1) 02: Wink Signal width (2) 01-15: 64-512 ms. (32 ms. increments) If no data is set, the default setting is 32 ms. • Y=3 (1) 03: Wink/Delay Detection Timeout (2) 01-15: 1-15 seconds (1 second increments) If no data is set, the default setting is 7 seconds.
CM20	Assign an access code for the DTI trunk route. **NOTE:** *The Least Cost Routing or Route Advance feature is also available for call origination via the DTI. Refer to the following feature programming.* *LEAST COST ROUTING-3/6 DIGIT* ☞ Page 425 *ROUTE ADVANCE* ☞ Page 599	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) 100-163: Trunk Route 00-63
END		

DIRECT INWARD DIALING (DID)

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Assign the ring cadence on a Direct Inward Dialing.	(1) 180 (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF **[For North America]** Special Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*) **[For EU]** 1◀: As per CM35 Y=33 or CM76 Y=22
CM10	Assign the trunk numbers to the required LEN.	(1) 000-763: LEN (2) D000-D255: Trunk No.
CM14	Assign the trunk numbers to the required LEN. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255: Trunk No.
CM30	Assign the data for DID to the trunk numbers assigned by CM10/CM14.	• Y=00 Trunk Route Allocation (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. • Y=01 Tenant Allocation (1) 000-255: Trunk No. (2) 00-63: Tenant No. 01◀ : Tenant No. • Y=02 Terminating System in Day Mode • Y=03 Terminating System in Night Mode • Y=40 Terminating System in Mode A • Y=41 Terminating System in Mode B (1) 000-255: Trunk No. (2) 31◀: DID, Tie Line and any call which is not handled by the PBX
A		

A

CM35

B

DESCRIPTION	DATA
Assign the data for DID to the trunk routes assigned by CM30 Y=00.	• Y=00 Kind of Trunk Route (1) 00-63: Trunk Route No. (2) 00: DID trunk • Y=02 Call direction (1) 00-63: Trunk Route No. (2) 1: Incoming trunk • Y=05 Release Signal from distant office (1) 00-63: Trunk Route No. (2) 1◀: Release Signal arrives • Y=09 Incoming connection signaling (1) 00-63: Trunk Route No. (2) 06: 2nd DT/Timing Start-Tie Line
NOTE: *When 2nd data is set to "1", the Trunk ID number assigned by CM30 Y=19 is displayed.*	• Y=75 DID incoming LDN display on D^{term}/DESKCON (1) 00-63: Trunk Route No. (2) 0 : Available 1◀: Not available **NOTE**

B

	DESCRIPTION	DATA
CM45	Provide dedicated DTMF Receivers for DID calls, if required.	• Y=1 (1) XX Z: DTMF Receiver No. XX : 00: Built-in PBR on MP card 01-15: 8RST Card No. (E201-E215) assigned by CM10/CM14 Z : 0-3: Circuit No. (2) 0 : Only for incoming call from DID 1◀: For both DTMF station and Tie Line/ DID
CM49	Assign the function of each Digital Announcement Trunk, if needed	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. (EB002-EB127) assigned by CM10/CM14 (2) 0D00: Announcement Service when the called station does not answer the DID/Tie Line call 0E00: Announcement Service when the DID/Tie Line call terminates to the busy station
CM51	Assign the destination of DID call transferred when the station is busy/unassigned/no answer. **NOTE:** *When Announcement Service is provided for No Answer (CM51 Y=00) or Busy (CM51 Y=03), see ANNOUNCEMENT SERVICE.* ☞ Page 32 *When Announcement Service is provided for unassigned (CM51 Y=06), see INTERCEPT ANNOUNCEMENT.* ☞ Page 412	• Y=00 No Answer • Y=03 Busy • Y=06 Unassigned (1) 00-63: Tenant No. (2) Destination: X-XXXXXXXX: Station No. E000 : Attendant Console EB000-EB127 : Digital Announcement Trunk No. assigned by CM10/CM14 **NOTE**

END

To assign the destination tenant for Day/Night Mode and Mode A/B, when DID call terminates (When CM76 Y=01/02/03/04 is set to "D13" (TAS)):

START	DESCRIPTION	DATA
CM76	Assign the tenant for Day/Night Mode, Mode A/B per each station number received on DID call.	• Y=05 Day Mode • Y=06 Night Mode • Y=07 Mode A • Y=08 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 00-63: Trunk Tenant No.
END		

To assign the destination tenant for Day/Night Mode and Mode A/B, when DID call terminates (When CM76 Y=01/02/03/04 is set to "station number to be terminated"):

START	DESCRIPTION	DATA
CM12	Assign a tenant number to each station assigned by CM76 Y=01/02/03/04.	• Y=04 (1) X-XXXXXXXX: Station No. assigned by CM76 Y=01/02/03/04 (2) 00-63: Tenant No. 01◀ : Tenant No.
CM76	Assign the terminating station tenant for each DID number during Day/Night Mode, Mode A/B.	• Y=18 Day Mode • Y=19 Night Mode • Y=20 Mode A • Y=21 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 00-63 : Station Tenant No. NONE◀: Trunk Tenant
END		

HARDWARE REQUIRED

4DIT card (DID Trunk)

DID CALL WAITING

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the Camp-On tone sent to a busy station by Camp-On Call Waiting Method.	(1) 367 (2) 0 : Every 4 seconds 1◀: Only once
CM12	Assign Service Restriction Class A for the Call Waiting feature to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Waiting Answer from called side in Service Restriction Class A assigned by CM12 Y=02.	• Y=44 Call Waiting Answer from called side (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM35	Assign the data for DID Call Waiting to the trunk routes assigned by CM30.	• Y=59 Call Waiting for DID call (1) 00-63: Trunk Route No. (2) 0: To provide
CM76	Specify Call Waiting for DID call per incoming LDN number, if required. **NOTE:** *CM76 Y=10 is effective when the 2nd data of CM35 Y=18 is "0" (Received Digits Conversion is to be provided).*	• Y=10 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : Restricted 1◀: Allow
END		

DID DIGIT CONVERSION

PROGRMMING SUMMARY FOR DID DIGIT CONVERSION

(1) Specify whether the DID Digit Conversion is provided for each trunk route by CM35 Y=18.

(2) To provide the DID Digit Conversion, set the following data.

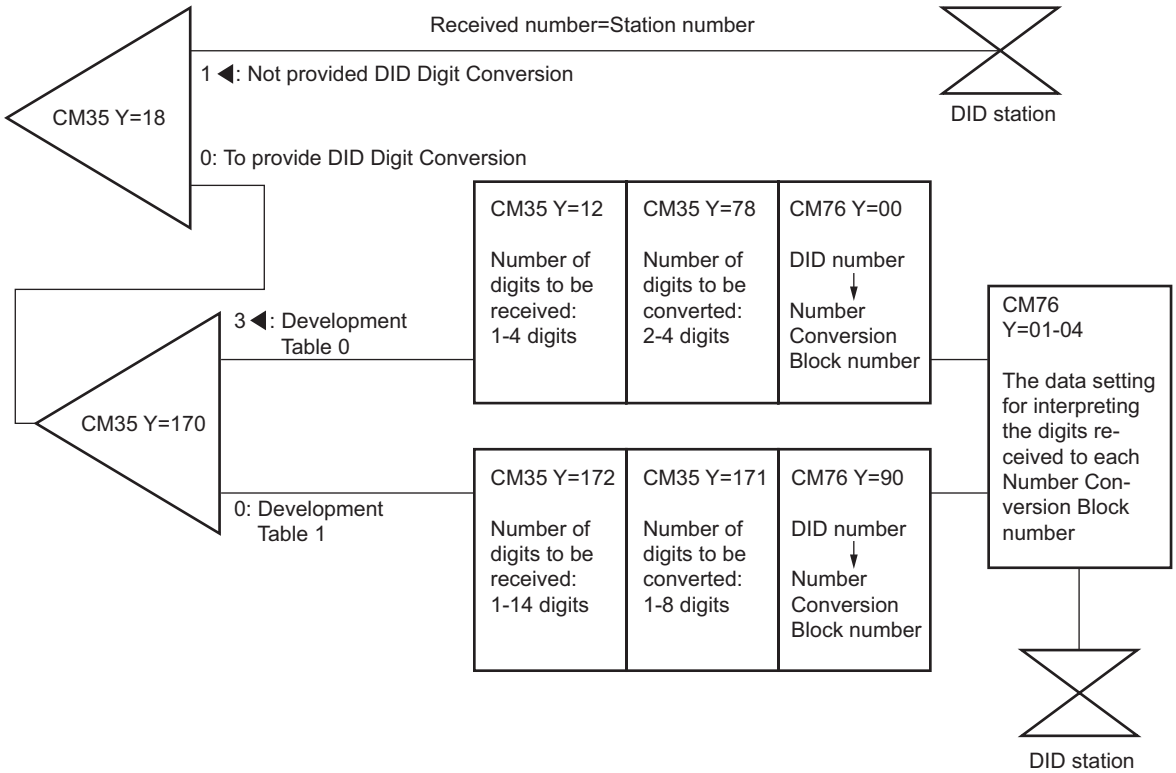
STEP1: Specify the Development Table for DID Digit Conversion to each trunk route by CM35 Y=170.

STEP2: Assign the number of digits to be received on DID and the number of digits to be converted on DID to each trunk route/each Development Table by CM35 Y=12, 78/CM35 Y=171, 172.

STEP3: Set the Number Conversion Block number for each Development Table by CM76 Y=00, 90.

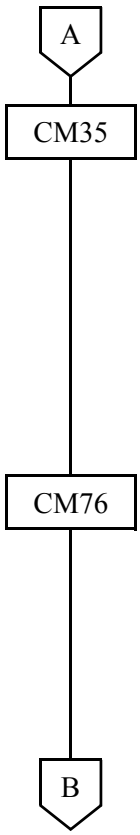
STEP4: Assign the data for interpreting the received digits to each Number Conversion Block number by CM76 Y=01-04.

DID Digit Conversion Programming Procedure

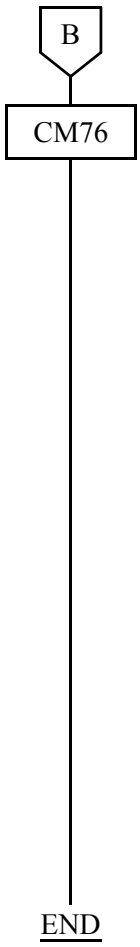


PROGRAMMING

START	DESCRIPTION	DATA
CM35	Provide DID Digit Conversion to the trunk route number assigned by CM30 Y=00.	• Y=18 (1) 00-63: Trunk Route No. (2) 0: To provide
	Specify the Development Table for DID Digit Conversion. **NOTE:** *When using the Development Table 1, see SAMPLE DATA PROGRAMMING.* ☞ Page 307	• Y=170 (1) 00-63: Trunk Route No. (2) 0 : Development Table 1 3◀: Development Table 0
	Specify the number of digits to be received on DID for Development Table 0.	• Y=12 (1) 00-63: Trunk Route No. (2) Number of digits 0 : 1 digit 1 : 2 digits 2 : 3 digits 3◀: 4 digits
	Specify the number of digits to be converted on DID for Development Table 0.	• Y=78 (1) 00-63: Trunk Route No. (2) 0 : Leading 2-4 digits 1◀: All digits of DID number are converted by CM76
A		



DESCRIPTION	DATA
Specify the number of digits to be received on DID for Development Table 1.	• Y=172 (1) 00-63: Trunk Route No. (2) Number of digits 01-14: 1-14 digits 15◀ : 4 digits
Specify the number of digits to be converted on DID for Development Table 1.	• Y=171 (1) 00-63: Trunk Route No. (2) 01-08: 1-8 digits 15◀ : 4 digits
Assign the Number Conversion Block number for Development Table 0.	• Y=00 (1) X-XXXX: DID No. (2) 000-999: Number Conversion Block No.
Assign the Number Conversion Block number for Development Table 1.	• Y=90 (1) X-XXXXXXXX: DID No. (2) 000-999: Number Conversion Block No.



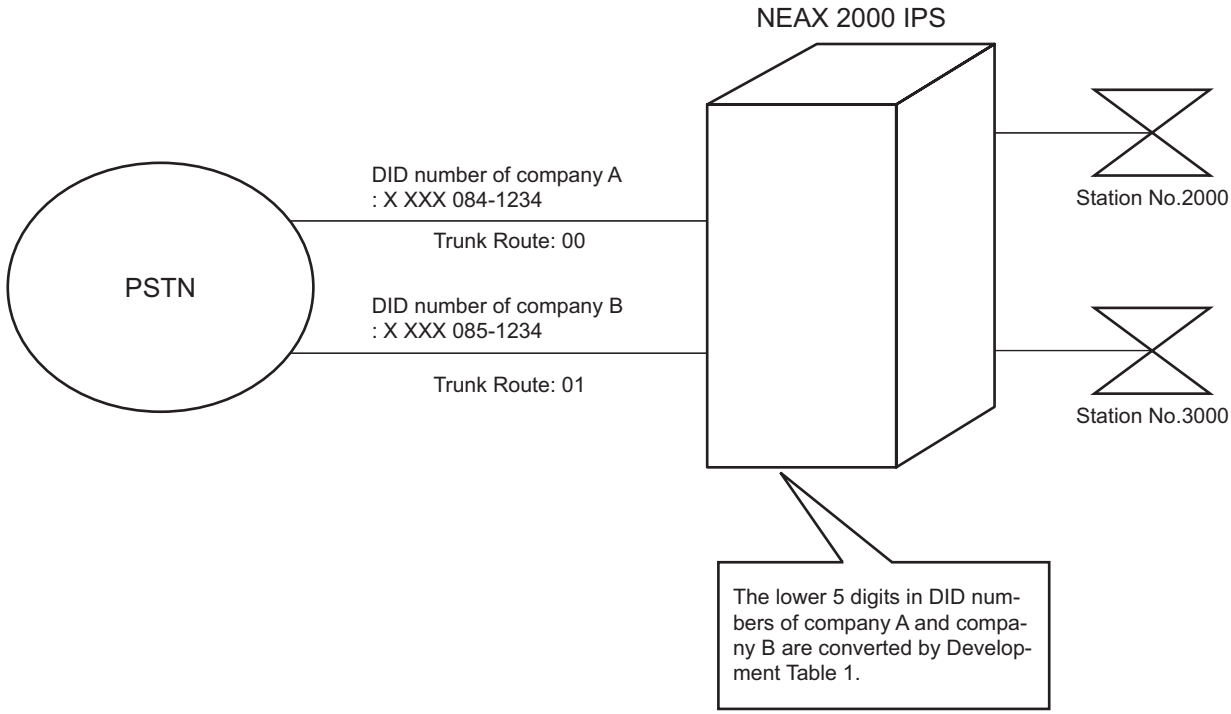
DESCRIPTION	DATA
Assign the data for interpreting the digits received.	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) X-XXXXXXXX: Station No. to be terminated DXX: Change Terminating System to: D02: Trunk-Direct Appearances D03: Trunk-Direct Appearances + TAS D04: Direct-In Termination D09: Automated Attendant D10: Attendant Console + TAS D11: Attendant Console + Trunk-Direct Appearances D12: Attendant Console + Trunk-Direct Appearances + TAS D13: TAS D14: Attendant Console D16: DISA

SAMPLE DATA PROGRAMMING

< Example >

- The PBX provides DID lines of multiple telecommunication companies (company A, company B), and when the PBX receives the calls that have the same lower 4 digits of DID number from each telecommunication company, the calls are terminated to each station which have been specified.

- DID No. : X XXX 084-1234 (DID number of company A)
  : X XXX 085-1234 (DID number of company B)
- Trunk Route No.: 00 (for DID line of company A)
  : 01 (for DID line of company B)
- Station No. : 2000 (for DID line of company A)
  : 3000 (for DID line of company B)



< Data Programming >

COMMAND	1st DATA	2nd DATA	REMARKS
CM35 Y=18	00	0	Provide DID Digit Conversion to the trunk route number 00.
CM35 Y=18	01	0	Provide DID Digit Conversion to the trunk route number 01.
CM35 Y=170	00	0	Specify the Development Table 1 for DID digit conversion to the trunk route number 00.
CM35 Y=170	01	0	Specify the Development Table 1 for DID digit conversion to the trunk route number 01.
CM35 Y=172	00	07	Specify the number of digits to be received on DID for Development Table1 as 7 digits to trunk route number 00.
CM35 Y=172	01	07	Specify the number of digits to be received on DID for Development Table1 as 7 digits to trunk route number 01.
CM35 Y=171	00	05	Specify the number of digits to be converted on DID for Development Table1 as 5 digits to trunk route number 00.
CM35 Y=171	01	05	Specify the number of digits to be converted on DID for Development Table1 as 5 digits to trunk route number 01.
CM76 Y=90	41234	000	Assign the Number Conversion Block number 000 to the DID number 41234.
CM76 Y=90	51234	001	Assign the Number Conversion Block number 001 to the DID number 51234.
CM76 Y=01	000	2000	Assign the station number 2000 to the Number Conversion Block number 000.
CM76 Y=01	001	3000	Assign the station number 3000 to the Number Conversion Block number 001.

DID NAME DISPLAY

PROGRAMMING

START	DESCRIPTION	DATA
CM76	Assign the DID name to the Number Conversion Block number assigned by CM76 Y=00/90 with character or character code. **NOTE:** *Number Conversion Block No. 200-999 cannot be used for this assignment.*	• Y=24 (1) 000-199: Number Conversion Block No. assigned by CM76 Y=00/90 (2) XX...XX: Character (Maximum 16 characters) X: 0-9, A-Z • Y=25 (1) 000-199: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 20-7F: Character Code (Maximum 32 digits, 16 characters) See APPENDIX B: Character Code Table. ☞ *Page B2*
CM12	Assign Service Restriction Class A to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
A		

	DESCRIPTION	DATA
A		
CM15	Allow Calling Name Display-PS in Service Restriction Class A assigned by CM12 Y=02.	• Y=123 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
	Provide Calling Name Display for trunk incoming calls in Service Restriction Class A assigned by CM12 Y=02.	• Y=136 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Calling Name Display
CM90	Provide the D^{term} with a select key of Calling Number Display or Calling Name Display, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1099: Select Key of Calling Number Display or Calling Name Display
	Provide the DESKCON with a select key of Calling Number Display or Calling Name Display, if required.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6122: Select Key of Calling Number Display or Calling Name Display
	Provide the D^{term} with a Caller ID Display key for displaying the Caller ID, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F5010: Caller ID Display
END		

DIRECT INWARD SYSTEM ACCESS (DISA)

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the processor for checking the ID code on DISA.	(1) 217 (2) 0 : MP 1◀: OAI (ACF)
	Assign the ring cadence on a DISA.	(1) 180 (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF **[For North America]** Special Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*) **[For EU]** 1◀: As per CM35 Y=33
CM30	Assign the data for DISA to the required trunks.	• Y=02 Terminating System in Day Mode • Y=03 Terminating System in Night Mode • Y=40 Terminating System in Mode A • Y=41 Terminating System in Mode B (1) 000-255: Trunk No. (2) 16: DISA
		• Y=30 Handling of DISA destination in Day Mode • Y=31 Handling of busy/not available DISA destination in Night Mode (1) 000-255: Trunk No. (2) 00 : C.O. line release 01 : Forwarded to TAS indicator 03 : Forwarded to Attendant Console 04 : Forwarded to DIT station assigned by CM30 Y=04, 05 06 : DT connection for redial 08 : C.O. line release 15◀: C.O. line release
A		

A

	DESCRIPTION	DATA
CM76	When providing DISA to the DID calls, assign the data for converting the received digits to DISA. See DID DIGIT CONVERSION. ☞ *Page 303*	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) D16: DISA
CM2A	Assign the ID Code Development number for DISA.	• Y=A0 (1) 2 (2) 0-9: ID Code Development No. 00-09 **NOTE:** *CM2A Y=00-09 is determined by this data.*
	Assign the ID Code for DISA.	• Y=00-09 ID Code Development No. 00-09 (1) X-XX...XX (Maximum 16 digits): ID Code for DISA (2) 0000-2999: ID Code Pattern No.
	Assign the desired Trunk Restriction Class for each ID Code Pattern number.	• Y=11 (1) 0000-2999: ID Code Pattern No. (2) 1◀: Unrestricted (RCA) 2 : Non-Restricted-1 (RCB) 3 : Non-Restricted-2 (RCC) 4 : Semi-Restricted-1 (RCD) 5 : Semi-Restricted-2 (RCE) 6 : Restricted-1 (RCF) 7 : Restricted-2 (RCG) 8 : Fully-Restricted (RCH)
	Assign the desired Service Restriction Class A to each ID Code Pattern number. The features available in each class are assigned by CM15.	• Y=12 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class A
	Assign the desired Service Restriction Class B to each ID Code Pattern number. The features available in each class are assigned by CM15.	• Y=13 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class B

B

	DESCRIPTION	DATA
B		
CM2A	Assign the desired Service Restriction Class C to each ID Code. The features available in each class are assigned by CM15.	• Y=14 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class C
	Assign the purpose of ID Code.	• Y=10 (1) 0000-2999: ID Code Pattern No. (2) 0 : Validate the ID Code entered from stations and trunks 2 : Validate the ID Code entered from trunks 3◀: Invalidate the ID Code entered from stations and trunks
CM42	Specify the maximum number of digits for DISA Code with MP.	(1) 13 (2) 01-16 : 1 digit-16 digits NONE◀: 10 digits
END		

NOTE: *Approximately 3000 DISA codes including Authorization Codes and Forced Account Codes can be defined.*

Number of the codes varies with the number of digits assigned to each code.
For details, refer to "BUSINESS/HOTEL/DATA FEATURES AND SPECIFICATIONS".

To access the Digital Announcement Trunk (DAT card) via DISA, add the following programming.

START	DESCRIPTION	DATA
CM10	Assign a Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM2A	Assign Service Restriction Class A for Digital Announcement Trunk access to the required ID Code Pattern number.	• Y=12 (1) 0000-2999: ID Code Pattern No. assigned by CM2A Y=00-09 (2) 00-15◀: Service Restriction Class A
CM15	Allow Digital Announcement Trunk access in Service Restriction Class A assigned by CM2A Y=12.	• Y=33 (1) 00-15: Service Restriction Class A assigned by CM2A Y=12 (2) 1◀: Allow
CM20	To record and replay a message from an outside user, assign the Digital Announcement Trunk access code, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay
END		

CALL FORWARDING SET BY DISA

PROGRAMMING

In addition to the DISA programming, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Manual Call Forwarding set by DISA in Service Restriction Class A assigned by CM12 Y=02.	• Y=134 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
CM08	Specify the processor for checking the ID Code on DISA.	(1) 217 (2) 0 : MP 1◀: OAI (ACF)
CM20	Assign the access code for Call Forwarding-All Calls, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*5, #5) (2) A010: Call Forwarding-All Calls Set A011: Call Forwarding-All Calls Cancel

C

Without ID Code entry when digit conversion on DID call is not provided (CM35 Y=18 is set to "1"): ☞ Page 318

B

Without ID Code entry when digit conversion on DID call is provided (CM35 Y=18 is set to "0"): ☞ Page 317

A

With ID Code entry: ☞ Page 316

A

CM2A

DESCRIPTION	DATA
Assign the ID Code Development number for DISA.	• Y=A0 (1) 2: DISA Code (2) 0-9: ID Code Development No. 00-09
Assign the ID Code for DISA.	• Y=00-09 ID Code Development No. 00-09 (1) X-XX...XX: ID Code for DISA (Maximum 16 digits) (2) 0000-2999: ID Code Pattern No.
Assign the purpose of ID Code.	• Y=10 (1) 0000-2999: ID Code Pattern No. (2) 2: Validate the ID Code entered from trunks
Assign Service Restriction Class A assigned by CM15 Y=134 to the ID Code Pattern number.	• Y=12 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class A
Specify the setting station of Manual Call Forwarding set by DISA, if required. If the station number is set by this command, Call Forward setting is not available for the other stations.	• Y=16 (1) 0000-2999: ID Code Pattern No. (2) X-XXXXXXXX: Station No. NONE◀ : All stations

END

To abbreviate the ID Code entry when digit conversion on DID call is provided (CM35 Y=18 is set to "0"):

	DESCRIPTION	DATA
B		
CM35	Set the trunk route to use the calling party number as the ID Code for DISA.	• Y=155 (1) 00-63: Trunk Route No. (2) 0: Available
CM2A	Assign the ID Code Development number, for Call Forwarding set by DISA.	• Y=A0 (1) 3: Automatic service setting by DISA (2) 0-9: ID Code Development No. 00-09
	Assign the calling party number as the ID Code for DISA.	• Y=00-09 ID Code Development No. 00-09 (1) X-XX...XX: Calling Party No. (Maximum 16 digits) (2) 0000-2999: ID Code Pattern No.
	Assign the purpose of ID Code.	• Y=10 (1) 0000-2999: ID Code Pattern No. (2) 2: Validate the ID Code entered from trunks
	Assign Service Restriction Class A assigned by CM15 Y=134 to the ID Code Pattern number.	• Y=12 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class A
	Set the calling party number to be used as the ID Code for DISA.	• Y=15 (1) 0000-2999: ID Code Pattern No. (2) 0: Available
	Specify the setting station of Manual Call Forwarding set by DISA, if required. If the station number is set by this command, Call Forward setting is not available for the other stations.	• Y=16 (1) 0000-2999: ID Code Pattern No. (2) X-XXXXXXXX: Station No. NONE◀ : All stations
END		

To abbreviate the ID Code entry when digit conversion on DID call is not provided (CM35 Y=18 is set to "1"):

	DESCRIPTION	DATA
C		
CM76	Assign the Number Conversion Block number to the DID number.	• Y=00 (1) X-XXXX: DID No. (2) 000-999: Number Conversion Block No. 000-999
	Specify the terminating system as DISA.	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00 (2) D16: DISA
	Set the calling party number to be used as the ID Code for DISA when the DID number assigned by CM76 Y=00 is sent.	• Y=14 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00 (2) 0: Available
	Allow the service setting by DISA without dialing the ID Code.	• Y=15 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00 (2) 15◀: Service setting without dialing the ID Code
CM2A	Assign the ID Code Development number, for Call Forwarding set by DISA.	• Y=A0 (1) 3: Automatic service setting by DISA (2) 0-9: ID Code Development No. 00-09
	Assign the calling party number as the ID Code for DISA.	• Y=00-09 ID Code Development No. 00-09 (1) X-XX...XX: Calling Party No. (Maximum 16 digits) (2) 0000-2999: ID Code Pattern No.
D		

D

CM2A

DESCRIPTION	DATA
Assign the purpose of ID Code.	• Y=10 (1) 0000-2999: ID Code Pattern No. (2) 2: Validate the ID Code entered from trunks
Assign Service Restriction Class A assigned by CM15 Y=134 to the ID Code Pattern number.	• Y=12 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class A
Set the calling party number to be used as the ID Code for DISA.	• Y=15 (1) 0000-2999: ID Code Pattern No. (2) 0: Available
Specify the setting station of Manual Call Forwarding set by DISA, if required. If the station number is set by this command, Call Forward setting is not available for the other stations.	• Y=16 (1) 0000-2999: ID Code Pattern No. (2) X-XXXXXXXX: Station No. NONE◀ : All stations

END

HARDWARE REQUIRED

DAT card if required

DIRECT INWARD TERMINATION (DIT)

PROGRAMMING

START	DESCRIPTION	DATA
CM30	Assign the data for terminating system in Day Mode/Night Mode/Mode A/Mode B, to each Loop/Ground Start trunk, respectively.	• Y=02 Day Mode/03 Night Mode/ 40 Mode A/41 Mode B (1) 000-255: Trunk No. (2) 04: Direct-In Termination
	Assign the station number to be terminated by DIT in Day Mode/Night Mode/Mode A/Mode B respectively.	• Y=04 Day Mode/05 Night Mode/ 42 Mode A/43 Mode B (1) 000-255: Trunk No. (2) X-XXXXXXXX: Station No.
	Assign the destination to be rerouted when the DIT station is busy/not available in Day Mode and Night Mode respectively.	• Y=13 Day Mode/14 Night Mode (1) 000-255: Trunk No. (2) 01 : TAS BUZZER 04 : Attendant Console 06 : Automatic Camp-On 15◀: Waiting until the DIT station becomes idle
	Assign the transfer destination for an unanswered DIT call in Day Mode and Night Mode, respectively.	• Y=15 Day Mode/16 Night Mode (1) 000-255: Trunk No. (2) 01 : Attendant Console 03 : TAS 15◀: To be continued DIT
CM41	Specify the timing for an unanswered call to a DIT destination.	• Y=0 (1) 01 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
CM08	Assign the ring cadence on a DIT call.	(1) 179 (2) 0 : As per CM35 Y=33 1◀: 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF **[For North America]** Special Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*) **[For EU]**
END		

NWA-008845-001 Rev.5.0
32ch1006.fm
NOVEMBER/15/2006

DIRECT OUTWARD DIALING (DOD)

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the trunk numbers to the required LEN.	(1) 000-763: LEN (2) D000-D255: Trunk No.
CM14	Assign the trunk numbers to the required LEN. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255: Trunk No.
CM30	Assign the data for Direct Outward Dialing to the trunk number assigned by CM10/CM14. **NOTE:** *For Resident System Program, refer to the Command Manual.*	• Y=00 Trunk Route allocation (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. **NOTE** • Y=01 Tenant Allocation (1) 000-255: Trunk No. (2) 00-63: Tenant No. 01◀ : Tenant No. • Y=08 Restriction on Night Mode (1) 000-255: Trunk No. (2) 0 : Restricted 1◀: Allow
A		

A

CM35

B

DESCRIPTION

Assign the data for Direct Outward Dialing to the Route number assigned by CM30 Y=00.

NOTE: *For Resident System Program, refer to the Command Manual.*

DATA

- Y=00 Kind of Route

(1) 00-63: Trunk Route No.
(2) 00: DDD
01: FX
02: WATS
03: CCSA

- Y=01 Type of Signal

(1) 00-63: Trunk Route No.
(2) 2 : DP
4 : DTMF
7◀: DTMF

- Y=02 OG/IC

(1) 00-63: Trunk Route No.
(2) 2 : Outgoing
3◀: Bothway

- Y=04 Answer Signal Condition

(1) 00-63: Trunk Route No.
(2) 1 : Answer Signal by Polarity Reversal
7◀: No Answer Signal

In case of no Answer Signal, system recognizes the answer in timing set by CM41 Y=0>03.

- Y=05 Release Signal Condition

(1) 00-63: Trunk Route No.
(2) 0 : No Release Signal from C.O.
1◀: Release Signal from C.O.

- Y=08 Dial Pulse Sending

(1) 00-63: Trunk Route No.
(2) 3◀: To be sent

- Y=09 Incoming Connection Signalling

(1) 00-63: Trunk Route No.
(2) 01 : Ring Down (Ground Start)
15◀: Ring Down (Loop Start)

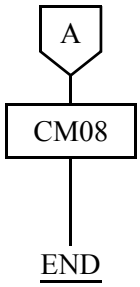
	DESCRIPTION	DATA
B		
CM35	According to the characteristics of each C.O. line, assign the data for DP/DTMF Sender to each route. For the details of the command, refer to the Command Manual. **NOTE:** *For Resident System Program, refer to the Command Manual.*	• Y=20 Sender start condition • Y=21 Sender Prepause Timing • Y=23 DP-Inter Digital Pause • Y=24 DTMF-Inter Digital Pause • Y=25 DP-Make Ratio • Y=26 DTMF Signal Width • Y=45 DP Sender Release Timing • Y=46 DTMF Sender Release Timing
CM41	Specify the timing for Interdigit Pause on outgoing C.O. call.	• Y=0 (1) 27 (2) 03-14: 3-14 seconds (1 second increments) If no data is set, the default setting is 7 seconds.
CM20	Assign the access code to each route.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) 100-163: Trunk Route No. 00-63
CM90	Assign the trunk appearance line key on a D^{term}, if provided.	• Y=00 (1) My Line No. + [,] + Key No. (2) D000-D255: Trunk No.
END		

NOTE: *For the Trunk Restriction Class, refer to CLASS OF SERVICE.* ☞ Page 211

DIRECT STATION SELECTION/BUSY LAMP FIELD (DSS/BLF) CONSOLE

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the DSS Console number to its associated LEN.	(1) 000-763: LEN (2) DSS Console No. For PIM0/1 : E100-E107 For PIM2/3 : E108-E115 For PIM4/5 : E116-E123 For PIM6/7 : E124-E131
CM14	Assign the DSS Console number to its associated LEN. **[Series 3200 R6.2 software required]** **NOTE:** *When using Series 3500 software or later, for the FP No. 00-03 of MP built-in FP/FP card of Main Site and MP built-in FP of Remote Site, the DSS console number (E100-E131) can be assigned without limit as shown right.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) DSS Console No. For FP No. 00 : E100-E107 For FP No. 01 : E108-E115 For FP No. 02 : E116-E123 For FP No. 03 : E124-E131
CM96	Assign a single-line station, D^{term}, or DESKCON to work in conjunction with the DSS Console.	(1) 00-31: DSS Console No. (Last two digits of E100-E131 assigned by CM10/CM14) (2) X-XXXXXXXX: Station No./My Line No. of D^{term} E000-E007 : ATTCON No.
CM97	Assign the station and trunk numbers, as needed, to the keys on each DSS Console.	(1) DSS Console No. (00-31) + , + DSS Key No. (00-59) (2) X-XXXXXXXX: Station No. D000-D255 : Trunk No.
	Assign a Do Not Disturb and Message waiting function key on each DSS Console, if needed.	(1) DSS Console No. (00-31) + , + DSS Key No. (57-59) (2) F1049: Message Waiting Set/Reset F1053: Do Not Disturb Set/Reset
	When providing Do Not Disturb or Message Waiting function key, assign a changing Function key on each DSS Console.	(1) DSS Console No. (00-31) + , + DSS Key No. (56) (2) F1052: Function Change
A		



DESCRIPTION	DATA
Specify the type of busy indication on the BLF of the DSS console as station base or extension base.	(1) 269 (2) 0 : Station base 1◀: Extension base

HARDWARE REQUIRED

DSS Console
DLC card

DISTINCTIVE RINGING

PROGRAMMING

[For North America]

(1) For Station-to-Station calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for station-to-station calls.	(1) 138 (2) 0 : 2 seconds ON-4 seconds OFF 1◀: 1 second ON-2 seconds OFF
END		

(2) For C.O./Tie line calls (except for Direct-in Termination/Direct Inward Dialing/DISA/CCIS calls)

START	DESCRIPTION	DATA
CM35	Specify the interval of ringing tones for station on incoming calls. **NOTE:** *For incoming calls to a Trunk-Direct Appearances key on D^{term}s, the special ringing; 0.2 seconds ON-0.2 seconds OFF will be applied.*	• Y=33 (1) 00-63: Trunk Route No. (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF 1 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF 2 : 1 second ON-2 seconds OFF 3◀: 2 seconds ON-4 seconds OFF
END		

(3) For Direct-in Termination calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for Direct-in Termination calls.	(1) 179 (2) 0 : As per CM35 Y=33 1◀: 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF
END		

(4) For Direct Inward Dialing calls

- To distinguish by the trunk route

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for Direct Inward Dialing calls.	(1) 180 (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF 1◀: As per CM35 Y=33
END		

- To distinguish by the terminating DID number

START	DESCRIPTION	DATA
CM08	Assign the interval of ringing tones as "As per CM76 Y=22".	(1) 180 (2) 1◀: As per CM76 Y=22
CM76	Specify the interval of ringing tones on DID calls. For this assignment, do not set CM76 Y=22 to 3 (As per CM35 Y=33 (D^{term} or SLT)).	• Y=22 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0: 0.5 seconds ON-0.5 seconds OFF (D^{term}) 1.0 second ON-2.0 seconds OFF (SLT) 1: 0.5 seconds ON-0.5 seconds OFF-0.5 seconds ON-1.5 seconds OFF (D^{term}) 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2.0 seconds OFF (SLT) 2: 1.0 second ON-2.0 seconds OFF (D^{term} or SLT)
END		

(5) For DISA/Automated Attendant calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for DISA/ Automated Attendant calls.	(1) 180 (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF 1◀: As per CM35 Y=33
END		

(6) For C.O. calls transferred to another station from a station/Attendant Console

START	DESCRIPTION	DATA
CM08	Select the kind of the ringing for station/attendant calls with trunk lines placed on Consultation Hold.	(1) 137 (2) 0 : Change from Internal Ringing (CM08>138) to External Ringing (CM35 Y=33) when caller goes on-hook or presses RLS key 1◀: External Ringing (CM35 Y=33)
END		

(7) For ISDN Indial calls

- To distinguish by the trunk route

START	DESCRIPTION	DATA
CM35	Specify the interval of ringing tones for station on incoming calls. **NOTE:** *For incoming calls to a Trunk-Direct Appearances key on D^{term}s, the special ringing; 0.2 seconds ON-0.2 seconds OFF will be applied.*	• Y=33 (1) 00-63: Trunk Route No. (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF 1 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF 2 : 1 second ON-2 seconds OFF 3◀: 2 seconds ON-4 seconds OFF
END		

- To distinguish by the terminating ISDN Indial number

START	DESCRIPTION	DATA
CM08	Assign the interval of ringing tones as "As per CM76 Y=22".	(1) 180 (2) 1◀: As per CM76 Y=22
CM76	Specify the interval of ringing tones on ISDN Indial calls. For this assignment, do not set CM76 Y=22 to 3 (As per CM35 Y=33 (D^{term} or SLT)).	• Y=22 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0: 0.5 seconds ON-0.5 seconds OFF (D^{term}) 1.0 second ON-2.0 seconds OFF (SLT) 1: 0.5 seconds ON-0.5 seconds OFF-0.5 seconds ON-1.5 seconds OFF (D^{term}) 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2.0 seconds OFF (SLT) 2: 1.0 second ON-2.0 seconds OFF (D^{term} or SLT)
END		

To provide a distinctive lamp indication for D^{term}s during a call termination, do the following programming:

START	DESCRIPTION	DATA
CM35	Specify the lamp color for an incoming external call. **NOTE:** *The lamp color for incoming internal calls is red (120 IPM flashing). For indicating the termination of a transferred external incoming call, the flashing lamp color depends on CM08>137.*	• Y=32 (1) 00-63: Trunk Route No. (2) 0 : Green (120 IPM) 1◀: Red (120 IPM)
END		

To provide the distinctive ringing patterns to D^{term}s in behind PBX, in order to distinguish between an internal call from the main PBX and an external incoming call:

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for station-to-station calls.	(1) 138 (2) 0 : 2 seconds ON-4 seconds OFF 1◀: 1 second ON-2 seconds OFF
	Specify the interval of ringing tones until detecting a ringing frequency from the main PBX (Centrex). Ringing is sent from D^{term} until detection of the ringing frequency.	(1) 380 (2) 0 : As per CM08>381 1◀: As per CM35 Y=33
		(1) 381 (2) 0 : No Ringer 1◀: Ringing Tone (0.5 seconds) is sent once
	Specify the lamp indication of D^{term} until detecting the kind of incoming call from the main PBX (Centrex). The lamp is lit until detection of the ringing frequency.	(1) 382 (2) 0 : Red Steady Light 1◀: 120 IPM Flash (As per CM35 Y=32)
	Specify the ringing distinction by detecting the ringing signal from the main PBX (Centrex).	(1) 366 (2) 0 : Longer Ringing than CM41 Y=2>40: External call Shorter Ringing than CM41 Y=2>40: Internal call 1◀: Longer Ringing than CM41 Y=2>40: Internal call Shorter Ringing than CM41 Y=2>40: External call

NOTE 1: *When the ringer is for an internal call, interval of ringing signal: CM08>138*
D^{term} lamp color: Change to red
D^{term} tone ringer: CM35 Y=34, 164, CM65 Y=40

NOTE 2: *When the ringer is for an external call, interval of ringing signal: CM35 Y=33*
D^{term} lamp color: CM35 Y=32
D^{term} tone ringer: CM35 Y=34, 164, CM65 Y=40

A

A

CM35

DESCRIPTION	DATA
Specify the lamp color for an incoming external call. **NOTE 1:** *The lamp color for incoming internal calls is red (120 IPM flashing).* **NOTE 2:** *For indicating the termination of a transferred external incoming call, the flashing lamp color depends on CM08>137.*	• Y=32 (1) 00-63: Trunk Route No. (2) 0 : Green (120 IPM) 1◀: Red (120 IPM)
Specify the interval of ringing tones to a D^{term} on an incoming call. **NOTE:** *For incoming calls to Trunk Line Appearance Key on D^{term}, the special ringing; 0.2 seconds ON-0.2 seconds OFF will be applied.*	• Y=33 (1) 00-63: Trunk Route No. (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF 1 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF 2 : 1 second ON-2 seconds OFF 3◀: 2 seconds ON-4 seconds OFF
Specify the Ringer Tone Pattern of the D^{term} to each trunk route.	• Y=34, 164 (1) 00-63: Trunk Route No. (2) See the table below. **[Series 3200 R6.1 software required]**

Y=34	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

B

B

CM65

DESCRIPTION	DATA
Specify the ring frequency of the D^{term}. **[Series 3200 R6.1 software required]**	• Y=40 (1) 00-63: Tenant No. assigned by CM30 Y=01/CM12 Y=04 (2) See the table below.

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀	
		Electra Terminal/ D^{term} Series III	Elite Terminal/D^{term} Series E/ D^{term} Series i
0	Door Phone Ringer Tone	1024 + 1285 [Hz]/ 16 [Hz] Modulating Signal	1100 + 1400 [Hz]/ 16 [Hz] Modulating Signal
1	Ringer Tone 1	480 + 606 [Hz]/ 8 [Hz] Modulating Signal	520 + 660 [Hz]/ 8 [Hz] Modulating Signal
2	Ringer Tone 2	600 + 700 [Hz]/ 16 [Hz] Modulating Signal	660 + 760 [Hz]/ 16 [Hz] Modulating Signal
3	Ringer Tone 3	1024 [Hz] Envelop	1100 [Hz] Envelop
4	Ringer Tone 4	500 [Hz]	540 [Hz]
5	Ringer Tone 5	1024 [Hz]	1100 [Hz]
6	Not used	1285 + 1024 [Hz]	1400 + 1100 [Hz]
7	Not used	480 + 606 [Hz]/ 16 [Hz] Modulating Signal	520 + 660 [Hz]/ 16 [Hz] Modulating Signal

NOTE: *This data is effective only for D^{term} Series i.*
When using Electra Terminal/D^{term} Series III/Elite Terminal/D^{term} Series E, using D^{term} Series i with Series 3100 software or before, or when accommodating D^{term} Series i in TDM based Remote PIM, the second data is fixed to 1.

C

	DESCRIPTION	DATA
C		
CM35	Provide the distinctive ringing patterns to a D^{term} in behind PBX.	• Y=87 (1) 00-63: Trunk Route No. (2) 0 : To provide 1◀: Not provided
CM30	Specify the terminating system for incoming C.O. calls.	• Y=02 in Day Mode • Y=03 in Night Mode • Y=40 in Mode A • Y=41 in Mode B (1) 000-255: Trunk No. (2) 02: Trunk-Direct Appearances 03: Trunk-Direct Appearances + TAS
	Provide the Trunk-Direct Appearances on D^{term}.	• Y=18 (1) 000-255: Trunk No. (2) 0 : To provide 1◀: Not provided
CM41	Assign the ringing detect timer for incoming trunk calls.	• Y=2 (1) 00 (2) 06-10: 192-320 ms. (32 ms. increments) If no data is set, the default setting is 256-288 ms.
	Assign the main PBX (Centrex) ringing distinction timer. **NOTE 1** on next page	• Y=2 (1) 40 (2) 01-15: 128-1920 ms. (128 ms. increments) If no data is set, the default setting is 1280-1408 ms.
	Assign the immediate ringing guard timer from the main PBX (Centrex). **NOTE 1, NOTE 2** on next page	• Y=2 (1) 41 (2) 00-90: 0-12672 ms. (128 ms. increments) If no data is set, the default setting is 384-512 ms.
D		

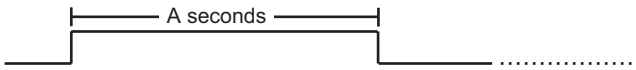
D

DESCRIPTION	DATA

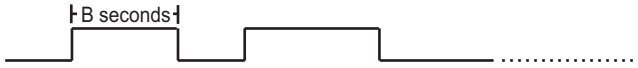
CM41

NOTE 1:
- *When immediate ringing is sent from the main PBX (Centrex), CM41 Y=2>40 plus CM41 Y=2>41 must be assigned as longer time than the time assigned by CM41 Y=2>00.*
- *When immediate ringing is not sent from the main PBX (Centrex), CM41 Y=2>40 must be assigned as longer time than the time assigned by CM41 Y=2>00.*
- *Check the main PBX (Centrex) ringer cycle and set as shown below:*

Main PBX Ringing
(Station termination)



Main PBX Ringing
(C.O. termination)



B seconds<"CM41 Y=2>40 setting time">A seconds

When the gap between the main PBX station terminating ringer and C.O. line terminating ringer is under 200 ms., distinction may be incomplete.

NOTE 2: *When Immediate Ringing is not provided on main PBX, be sure to set CM41 Y=2>41 as 00.*

CM90

Assign the Trunk Line Appearance key to a D^{term}.

- Y=00

(1) My Line No. + [,] + Key No.
(2) D000-D255: Trunk No.

Provide the tone ringer on call termination.

NOTE: *When CM30 Y=02/03/40/41 2nd data is 03, this setting is required.*

- Y=01

(1) My Line No. + [,] + Key No.
(2) 0 : Disabled
1◀: Enabled

END

[For EU]

(1) For Station-to-Station calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for station-to-station calls.	(1) 138 (2) 0 : External Ringing 1◀: Internal Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/CM08>397 below)
END		

Interval of Ringing Tones by CM08>392/CM08>396/CM08>397

◀: Initial Data

COMMAND		SETTING DATA	
CM08>392 (INITIAL)		0	1◀
CM08>396 (INITIAL)		1◀	0
CM08>397 (INITIAL)		0	0
Internal Ringing	SLT	1sON-4sOFF	0.3sON-0.2sOFF-0.3sON-4.2sOFF
	D^{term}	1sON-4sOFF	0.25sON-0.25sOFF-0.25sON-4.25sOFF
External Ringing	SLT	0.3sON-0.2sOFF-0.3sON-4.2sOFF	1sON-4sOFF
	D^{term}	0.25sON-0.25sOFF-0.25sON-4.25sOFF	1sON-4sOFF
Special Ringing	SLT	0.2sON-0.2sOFF-0.2sON-0.2sOFF-0.2sON-4sOFF	0.2sON-0.2sOFF-0.2sON-0.2sOFF-0.2sON-4sOFF
	D^{term}	0.25sON-0.125sOFF-0.25sON-0.125sOFF-0.25sON-2sOFF	0.25sON-0.125sOFF-0.25sON-0.125sOFF-0.25sON-2sOFF

(2) For C.O./Tie line calls (except for Direct-in Termination/Direct Inward Dialing/DISA/CCIS calls)

START	DESCRIPTION	DATA
CM35	Specify the interval of ringing tones for station on incoming calls. **NOTE:** *For SLT, Internal Ringing is applied. For D^{term}, the special ringing; 0.25 seconds ON-0.25 seconds OFF 0.25 seconds ON-0.25 seconds OFF is applied.*	• Y=33 (1) 00-63: Trunk Route No. (2) 0 : Rering **NOTE** 1 : Special Ringing 2 : Internal Ringing 3◀: External Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*)
END		

(3) For Direct-in Termination calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for Direct-in Termination calls.	(1) 179 (2) 0 : As per CM35 Y=33 1◀: Special Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*)
END		

(4) For Direct Inward Dialing calls
- To distinguish by the trunk route

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for Direct Inward Dialing calls.	(1) 180 (2) 0 : Special Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*) 1◀: As per CM35 Y=33
END		

- To distinguish by the terminating DID number

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones as "As per CM76 Y=22".	(1) 180 (2) 1◀: As per CM76 Y=22
CM76	Specify the interval of ringing tones on DID calls. For this assignment, do not set CM76 Y=22 to 3 (As per CM35 Y=33 (D^{term} or SLT)). **NOTE:** *For SLT, Internal Ringing is applied. For D^{term}, the special ringing; 0.25 seconds ON-0.25 seconds OFF 0.25 seconds ON-0.25 seconds OFF is applied.*	• Y=22 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : Internal Ringing **NOTE** 1 : Special Ringing 2 : Internal Ringing 3◀: External Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*)
END		

(5) For DISA/Automated Attendant calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for DISA/ Automated Attendant calls.	(1) 180 (2) 0 : Special Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*) 1◀: As per CM35 Y=33
END		

(6) For C.O. calls transferred to another station from a station/Attendant Console

START	DESCRIPTION	DATA
CM08	Select the kind of the ringing for station/attendant calls with trunk lines placed on Consultation Hold.	(1) 137 (2) 0 : Change from Internal Ringing (CM08>138) to External Ringing (CM35 Y=33) when caller goes on-hook or presses RLS key 1◀: External Ringing (CM35 Y=33)
END		

(7) For ISDN Indial calls

- To distinguish by the trunk route

START	DESCRIPTION	DATA
CM35	Specify the interval of ringing tones for station on incoming calls. **NOTE:** *For SLT, Internal Ringing is applied. For D^{term}, the special ringing; 0.25 seconds ON-0.25 seconds OFF 0.25 seconds ON-0.25 seconds OFF is applied.*	• Y=33 (1) 00-63: Trunk Route No. (2) 0 : Rering **NOTE** 1 : Special Ringing 2 : Internal Ringing 3◀: External Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*)
END		

- To distinguish by the terminating ISDN Indial number

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones as "As per CM76 Y=22".	(1) 180 (2) 1◀: As per CM76 Y=22
CM76	Specify the interval of ringing tones on ISDN Indial calls. For this assignment, do not set CM76 Y=22 to 3 (As per CM35 Y=33 (D^{term} or SLT)). **NOTE:** *For SLT, Internal Ringing is applied. For D^{term}, the special ringing; 0.25 seconds ON-0.25 seconds OFF 0.25 seconds ON-0.25 seconds OFF is applied.*	• Y=22 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : Internal Ringing **NOTE** 1 : Special Ringing 2 : Internal Ringing 3◀: External Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*)
END		

To provide the distinctive ringing patterns to D^{term}s in behind PBX, in order to distinguish between an internal call from the main PBX and an external incoming call:

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for station-to-station calls.	(1) 138 (2) 0 : External Ringing 1◀: Internal Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*)
	Specify the interval of ringing tones until detecting a ringing frequency from the main PBX (Centrex). Ringing is sent from D^{term} until detection of the ringing frequency.	(1) 380 (2) 0 : As per CM08>381 1◀: As per CM35 Y=33
		(1) 381 (2) 0 : No Ringer 1◀: Ringing Tone (0.5 seconds) is sent once
	Specify the lamp indication of D^{term} until detecting the kind of incoming call from the main PBX (Centrex). The lamp is lit until detection of the ringing frequency.	(1) 382 (2) 0 : Red Steady Light 1◀: 120 IPM Flash (As per CM35 Y=32)
	Specify the ringing distinction by detecting the ringing signal from the main PBX (Centrex).	(1) 366 (2) 0 : Longer Ringing than CM41 Y=2>40: External call Shorter Ringing than CM41 Y=2>40: Internal call 1◀: Longer Ringing than CM41 Y=2>40: Internal call Shorter Ringing than CM41 Y=2>40: External call

NOTE 1: *When the ringer is for an internal call, interval of ringing signal: CM08>138*
D^{term} lamp color: Change to red
D^{term} tone ringer: CM35 Y=34, 164, CM65 Y=40

NOTE 2: *When the ringer is for an external call, interval of ringing signal: CM35 Y=33*
D^{term} lamp color: CM35 Y=32
D^{term} tone ringer: CM35 Y=34, 164, CM65 Y=40

A

A

CM35

DESCRIPTION	DATA
Specify the lamp color for an incoming external call. **NOTE 1:** *The lamp color for incoming internal calls is red (120 IPM flashing).* **NOTE 2:** *For indicating the termination of a transferred external incoming call, the flashing lamp color depends on CM08>137.*	• Y=32 (1) 00-63: Trunk Route No. (2) 0 : Green (120 IPM) 1◀: Red (120 IPM)
Specify the interval of ringing tones to a D^{term} on an incoming call. **NOTE:** *For SLT, Internal Ringing is applied. For D^{term}, the special ringing; 0.25 seconds ON-0.25 seconds OFF 0.25 seconds ON-0.25 seconds OFF is applied.*	• Y=33 (1) 00-63: Trunk Route No. (2) 0 : Rering **NOTE** 1 : Special Ringing 2 : Internal Ringing 3◀: External Ringing (See Interval of Ringing Tones by CM08>392/CM08>396/ CM08>397. ☞ *Page 337*)
Specify the Ringer Tone Pattern of the D^{term} to each trunk route.	• Y=34, 164 (1) 00-63: Trunk Route No. (2) See the table below. **[Series 3200 R6.1 software required]**

Y=34	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

B

B

CM65

DESCRIPTION	DATA
Specify the ring frequency of the D^{term}. **[Series 3200 R6.1 software required]**	• Y=40 (1) 00-63: Tenant No. assigned by CM30 Y=01/CM12 Y=04 (2) See the table below.

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀	
		Electra Terminal/ D^{term} Series III	Elite Terminal/D^{term} Series E/ D^{term} Series i
0	Door Phone Ringer Tone	1024 + 1285 [Hz]/ 16 [Hz] Modulating Signal	1100 + 1400 [Hz]/ 16 [Hz] Modulating Signal
1	Ringer Tone 1	480 + 606 [Hz]/ 8 [Hz] Modulating Signal	520 + 660 [Hz]/ 8 [Hz] Modulating Signal
2	Ringer Tone 2	600 + 700 [Hz]/ 16 [Hz] Modulating Signal	660 + 760 [Hz]/ 16 [Hz] Modulating Signal
3	Ringer Tone 3	1024 [Hz] Envelop	1100 [Hz] Envelop
4	Ringer Tone 4	500 [Hz]	540 [Hz]
5	Ringer Tone 5	1024 [Hz]	1100 [Hz]
6	Not used	1285 + 1024 [Hz]	1400 + 1100 [Hz]
7	Not used	480 + 606 [Hz]/ 16 [Hz] Modulating Signal	520 + 660 [Hz]/ 16 [Hz] Modulating Signal

NOTE: *This data is effective only for D^{term} Series i.*
When using Electra Terminal/D^{term} Series III/Elite Terminal/D^{term} Series E, using D^{term} Series i with Series 3100 software or before, or when accommodating D^{term} Series i in TDM based Remote PIM, the second data is fixed to 1.

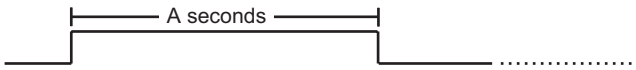
C

	DESCRIPTION	DATA
C		
CM35	Provide the distinctive ringing patterns to a D^{term} in behind PBX.	• Y=87 (1) 00-63: Trunk Route No. (2) 0 : To provide 1◀: Not provided
CM30	Specify the terminating system for incoming C.O. calls.	• Y=02 in Day Mode • Y=03 in Night Mode • Y=40 in Mode A • Y=41 in Mode B (1) 000-255: Trunk No. (2) 02: Trunk-Direct Appearances 03: Trunk-Direct Appearances + TAS
	Provide the Trunk-Direct Appearances on D^{term}.	• Y=18 (1) 000-255: Trunk No. (2) 0 : To provide 1◀: Not provided
CM41	Assign the ringing detect timer for incoming trunk calls.	• Y=2 (1) 00 (2) 06-10: 192-320 ms. (32 ms. increments) If no data is set, the default setting is 256-288 ms.
	Assign the main PBX (Centrex) ringing distinction timer. **NOTE 1** on next page	• Y=2 (1) 40 (2) 01-15: 128-1920 ms. (128 ms. increments) If no data is set, the default setting is 1280-1408 ms.
	Assign the immediate ringing guard timer from the main PBX (Centrex). **NOTE 1, NOTE 2** on next page	• Y=2 (1) 41 (2) 00-90: 0-12672 ms. (128 ms. increments) If no data is set, the default setting is 384-512 ms.
D		

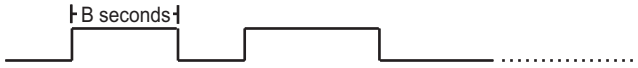
D

	DESCRIPTION	DATA
CM41	**NOTE 1:** • *When immediate ringing is sent from the main PBX (Centrex), CM41 Y=2>40 plus CM41 Y=2>41 must be assigned as longer time than the time assigned by CM41 Y=2>00.* • *When immediate ringing is not sent from the main PBX (Centrex), CM41 Y=2>40 must be assigned as longer time than the time assigned by CM41 Y=2>00.* • *Check the main PBX (Centrex) ringer cycle and set as shown below:*	

Main PBX Ringing (Station termination)



Main PBX Ringing (C.O. termination)



B seconds<"CM41 Y=2>40 setting time">A seconds

When the gap between the main PBX station terminating ringer and C.O. line terminating ringer is under 200 ms., distinction may be incomplete.

NOTE 2: *When Immediate Ringing is not provided on main PBX, be sure to set CM41 Y=2>41 as 00.*

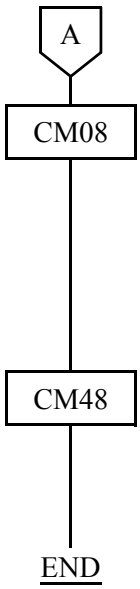
CM90	Assign the Trunk Line Appearance key to a D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) D000-D255: Trunk No.
	Provide the tone ringer on call termination. **NOTE:** *When CM30 Y=02/03/40/41 2nd data is 03, this setting is required.*	• Y=01 (1) My Line No. + [,] + Key No. (2) 0 : Disabled 1◀: Enabled

END

DO NOT DISTURB

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Do Not Disturb in Service Restriction Class A assigned by CM12 Y=02.	• Y=19 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM13	Assign the group of stations in Do Not Disturb. Do Not Disturb is set to these stations (assigned by this command) simultaneously by operation from an Attendant Console.	• Y=00 (1) X-XXXXXXXX: Station No. (2) 0: To provide
CM20	Assign the access code for Do Not Disturb Set/Cancel.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*8, #8) (2) A022: Do Not Disturb Set A023: Do Not Disturb Cancel
CM51	Assign the destination of the call when called station is set to Do Not Disturb.	• Y=10 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No. E000 : Attendant Console
CM90	Assign a Do Not Disturb function key to the D^{term}, if required.	• Y=00 (1) My Line No. + [›] + Key No. (2) F0022: Do Not Disturb Set/Reset F1080: Do Not Disturb Override
	Assign Do Not Disturb and Do Not Disturb Override function keys to the DESKCON. **NOTE:** *By Resident System Program, a Do Not Disturb key is assigned as a Multi-function key, on the DESKCON.*	• Y=00 (1) ATTCON No. (E000-E007) + [›] + Key No. (2) F6102: Do Not Disturb F6103: Do Not Disturb Override F6104: Reset F6108: Do Not Disturb Override
A		



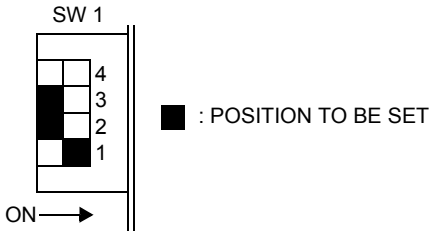
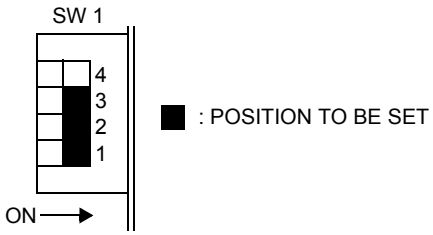
DESCRIPTION	DATA
Specify Call Forwarding-Busy Line/Station Hunting for a station with Do Not Disturb set.	(1) 240 (2) 0 : Available 1◀: Not available
For a system with multiple-tenant, specify the destination of a call transferred in CM51 Y=10.	(1) 241 (2) 0 : Tenant of called station 1◀: Tenant of calling station
Select the Dial Tone on setting Do Not Disturb.	• Y=2 (1) 14: Dial Tone on setting Do Not Disturb (2) 0 : Special Dial Tone (Stutter Dial Tone) 1◀: Dial Tone

To set an outside party as a destination of transferred call:

START	DESCRIPTION	DATA
CM11	Assign the Virtual Line station number to the required LEN.	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Line Station No.
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) XXZZ XX: 00-15◀: Service Restriction Class A
CM15	Assign Call Forwarding-All Calls-Outside to Service Restriction Class A assigned by CM12 Y=02.	• Y=26 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CME6	Assign Call Forwarding-All Calls-Outside to the Virtual Line station number assigned by CM11.	• Y=00 Call Forwarding-All Calls (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) Destination No.: X-XXXX + , + YY···Y X-XXXX: Outgoing Trunk/LCR Group Access Code (1-4 digits) , : Separate Mark YY···Y : Called No. (Maximum 26 digits)
CM08	For system with multiple-tenant, specify the tenant of calling station as the destination of a call transferred in CM51 Y=10.	(1) 241 (2) 1◀: Tenant of calling station
CM51	Assign the destination of the call when called station is set to Do Not Disturb as Virtual Line station assigned by CM11.	• Y=10 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Virtual Line Station No. assigned by CM11
END		

To provide Do Not Disturb group set/cancel at specified timing in advance:
[Series 3300 software required]

AP Initialization (PN-AP00-B/PN-AP00-D with MRCA program)
This section explains the data assignment to make the AP active.
You can skip the data assignment explained on this section, if one of the following AP related features has been activated; Station Message Detail Recording (SMDR) with NEAX 2400 IMS Format, Message Center Interface (MCI) or Do Not Disturb group set/cancel at specified timing in advance. You can distinguish whether the AP is active or not by the RUN lamp indication. The RUN lamp flashes on green color when the AP is in active.
When you install the AP00 at first time, you should assign the data shown below.

START	DESCRIPTION	DATA
CM05	Assign an AP number to the AP00 card. The AP number must match the SENSE switch setting on the AP00 card. (INITIAL) On the AP00 card, set SW1 switch as shown below. 	• Y=0 (1) 04-15, 20-31: AP No. (2) 45: PN-AP00-B/PN-AP00-D card with MRCA program SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
CMDD99	Load the initial data into the AP00 card. (AP OFF LINE) On the AP00 card, set the SW1 switch as shown below. 	(1) 0000 (2) CCC SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
END		

To provide timer for Do Not Disturb group set/cancel:

START	DESCRIPTION	DATA
CM13	Assign the group of stations in Do Not Disturb.	• Y=00 (1) X-XXXXXXXX: Station No. (2) 0: To provide
CMDD00	Provide Do Not Disturb group set/cancel.	(1) 20: Do Not Disturb Group Set/Cancel (2) 1: To provide
CMDD20	To set the timing of Do Not Disturb group set/cancel for a specific day, specify week data (CMDD21) or Time Table Number (CMDD22).	(1) XXYY XX: 01-12: Month YY: 01-31: Date (2) 0◀: As for week data of CMDD21 1 : As for Time Table No. 1 of CMDD22 2 : As for Time Table No. 2 of CMDD22 3 : As for Time Table No. 3 of CMDD22
CMDD21	To set the timing of Do Not Disturb group set/cancel for each day of the week, specify Time Table number set by CMDD22.	(1) 1: Sunday 2: Monday 3: Tuesday 4: Wednesday 5: Thursday 6: Friday 7: Saturday (2) 0-3: Time Table No. 0-3 of CMDD22 Initial data of CMDD21>1-7 is as follows.

1ST DATA	MEANING	2ND DATA	MEANING
1	Sunday	1	Time Table No. 1
2	Monday	0	Time Table No. 0
3	Tuesday	0	Time Table No. 0
4	Wednesday	0	Time Table No. 0
5	Thursday	0	Time Table No. 0
6	Friday	0	Time Table No. 0
7	Saturday	1	Time Table No. 1

A

	DESCRIPTION	DATA
A		
CMDD22	Provide the Time Table for Do Not Disturb group set/cancel.	(1) XYYZZ X : 0-3: Time Table No. 0-3 YY: 00-23: Hour ZZ : 00-55: Minute (5 minute increments) (2) 0◀: Do Not Disturb Group Cancel 1 : Do Not Disturb Group Set
CM90	Assign a Do Not Disturb function key to the D^{term}, if required.	• Y=00 (1) My Line No. + , + Key No. (2) F0022: Do Not Disturb Set/Reset
CM97	Assign a Do Not Disturb function key on each DSS Console, if needed.	(1) DSS Console No. (00-31) + , + DSS Key No. (57-59) (2) F1053: Do Not Disturb Set/Reset
END		

To set the Do Not Disturb feature to the stations of SLT/sub line of D^{term}/Virtual line stations that are accommodated to the D^{term} multiline as the sub line, and to display the Do Not Disturb Set/Reset status of the stations on the lamp of D^{term}:

[Series 3500 software required]

NOTE: *To make available this feature, do the programming both of the setting side (D^{term}) and the set side (stations of SLT, sub line of D^{term} or virtual line stations).*

- For Setting Side (D^{term})

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to the required stations.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Allow Do Not Disturb Setting in Service Restriction Class C assigned by CM12 Y=07.	• Y=188 (1) 00-15: Service Restriction Class C assigned by CM12 YY=07 (2) 0 : Allow 1◀: Restricted
CM12	Assign the Do Not Disturb Lamp Indication on Line/Trunk/Feature keys of D^{term}.	• Y=62 (1) X-XXXXXXXX: Station No. (2) 0 : Not indicated 1 : Not used 2 : Do Not Disturb Lamp Indication 3◀: Message Waiting Lamp Indication
END		

- For Set Side (stations of SLT, sub line of D^{term} or virtual line stations)

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Do Not Disturb in Service Restriction Class A assigned by CM12 Y=02.	• Y=19 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Restricted 1◀: Allow
CM12	Assign Service Restriction Class C to the required stations.	• Y=07 (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) 00-15◀: Service Restriction Class C
CM15	Allow Do Not Disturb to be set in Service Restriction Class C assigned by CM12 Y=07.	• Y=189 (1) 00-15: Service Restriction Class C assigned by CM12 YY=07 (2) 0 : Allow 1◀: Restricted
CM65	Provide Do Not Disturb feature to each tenant.	• Y=19 (1) 00-63: Tenant No. (2) 0 : Not provided 1◀: To provide
CM12	Assign the Do Not Disturb Lamp Indication on Line/Trunk/Feature keys of D^{term}.	• Y=62 (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) 0 : Not indicated 1 : Not used 2 : Do Not Disturb Lamp Indication 3◀: Message Waiting Lamp Indication
END		

HARDWARE REQUIRED

To provide Do Not Disturb group set/cancel at specified timing in advance:
AP00-B/AP00-D card with MRCA program

ENHANCED 911

PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign an AP number to the 911 Sender trunk. (INITIAL) The AP number is given by the SENSE switch on the 911 Sender trunk.	• Y=0 (1) 04-15, 20-31: AP No. (2) 08: 911 Sender Trunk (4RSTB card)
CM06	Assign 911 Sender trunk number to each 911 Sender trunk. (INITIAL)	• Y=04 (1) 00-15: 911 Sender Trunk No. (2) XX Z XX: 04-15, 20-31: AP No. assigned by CM05 Z : 0-3: Circuit No.
CM08	Send ANI signal to the network on Enhanced 911.	(1) 474: Enhanced 911 (2) 0: To send
	Specify whether the Sender Tone will be sent when a call originated, or not.	(1) 475: Sending of Sender Tone (2) 0 : Not sent (No tone) 1◀: To send
CM09	Provide the System with Enhanced 911. (INITIAL)	(1) 52: Enhanced 911 (2) 0◀: To provide
CM31	Specify that all circuits on the 911 Sender trunk are used as sender. (INITIAL)	• Y=2 (1) 0-3: AP No. **NOTE** (2) 0: All circuits are used as the 911 Sender
	NOTE: *The AP number 0-3 corresponds to the AP numbers assigned by CM05 (04-15, 20-31) as shown below:* *CM31 Y=2 CM05 Y=0* *AP Number 0: AP Number X* *AP Number 1: AP Number Y* *AP Number 2: AP Number Z* *AP Number 3: AP Number W* *(X<Y<Z<W)*	
A		

A

	DESCRIPTION	DATA
CMAA	Specify the sending method of calling number to the 911 Sender trunk.	• Y=07 Sending method of calling number (1) 04-15, 20-31: AP No. assigned by CM05 (2) 3: Enhanced 911
CM35	Set the trunk route that no answer signal arrives from the distant office for outgoing connection.	• Y=04 Answer Signal from distant office (1) 00-63: Trunk Route No. (2) 3: No Answer signal (Polarity Reversal is ignored)
	Specify incoming connection signaling. **NOTE:** *DTI card must be set to Wink Start. ODT card and COT card must be set to Ring Down. Enhanced 911 will not function if ODT card is set to Wink Start.*	• Y=09 Incoming connection signaling (1) 00-63: Trunk Route No. (2) 03 : Wink Start 15◀: Ring Down
	Provide SMDR/Centralized Billing for outgoing call.	• Y=14 SMDR for outgoing call (1) 00-63: Trunk Route No. (2) 1◀: To provide
	Specify sender start condition. **NOTE:** *Digital and Analog Tie Lines are set to Wink Start. Analog Loop Start Lines are set to Timing Start.*	• Y=20 Sender start condition (1) 00-63: Trunk Route No. (2) 00 : Wink Start 15◀: Timing Start
	Specify the trunk seizure pattern.	• Y=36 Trunk seizure pattern (1) 00-63: Trunk Route No. (2) 0: After dialing maximum number of digits
	Provide the trunk route with Enhanced 911.	• Y=38 Enhanced 911 (1) 00-63: Trunk Route No. (2) 0: Available
	Specify the sending method of calling number to the network.	• Y=129 Sending method of calling number (1) 00-63: Trunk Route No. (2) 3: Enhanced 911
	Assign the Area Code Development Pattern number for maximum digit analysis.	• Y=76 Area Code Development Pattern (1) 00-63: Trunk Route No. (2) 00-07: Area Code Development Pattern No. 0-7

B

	DESCRIPTION	DATA
B		
CM85	Define the maximum number of digits which can be sent to the network.	• Y=0-7 Area Code Development Pattern No. 0-7 (1) X-XXX...: Area Code/Office Code or its part (Maximum 8 digits) (2) 01-24◀: 1-24 digits 25-79 : 25-79 digits
CM20	Assign the access code for LCR Group 0-3.	• Y=0-3 Numbering Group No. 0-3 (1) X-XXXX: Access Code (Maximum 4 digits) (2) A126-A129: Access Code for LCR Group 0-3
CM8A	Assign the LCR data, as the occasion demands.	YYYY (1) See CM8A in the Command Manual (2) See CM8A in the Command Manual
CM12	Assign the calling station number sent to the network. "*", "#" are not available for the sending number.	• Y=12 Calling Number assignment (1) X-XXXXXXXX: Station No. (2) X-XXXX: Sending No.
	Assign the Local Office Code Table number for sending the calling office code to the network.	• Y=13 Local Office Code Table No. (1) X-XXXXXXXX: Station No. (2) 00-14: Local Office Code Table No. 00-14 15◀ : No data
C		

C

	DESCRIPTION	DATA
CM35	Assign the Local Office Code Table number used for tandem connection. **NOTE:** *This command is not used for the NEAX 2000 IPS containing the MF Sender for Enhanced 911. This command is used for an incoming CCIS voice route or incoming Tie Line route. The selected table number must be different from the tables selected by CM12 Y=13. The table selected for the incoming CCIS/Tie route must contain the main telephone number (area code, office code, and last four digits) of the distant PBX.*	• Y=03 Local Office Code Table No. on tandem connection (1) 00-63: Trunk Route No. (2) 00-14: Local Office Code Table No. 00-14 15◀ : Not sent
CM50	Assign the Local Office Code sent to the network. "*", "#" is not available for the sending number.	• Y=05 Local Office Code assignment (1) 00-14: Local Office Code Table No. 00-14 (2) X-XXX...: Sending No. (Maximum 12 digits)

D

To provide 911 Notification on DESKCON:

D

	DESCRIPTION	DATA
CM8A	Provide 911 Notification on the DESKCON.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 166: 911 Notification on DESKCON (2) 0: To provide
CM51	Assign the destination DESKCON of 911 Notification. **NOTE:** *911 Notification can be provided on the maximum two DESKCONs per system.*	• Y=16 (1) 04: DESKCON No. 1 for 911 Notification 05: DESKCON No. 2 for 911 Notification (2) E000-E007: ATTCON No. 0-7
CM30	To display the local office code on the DESKCON for C.O. tandem 911 calls, assign the incoming C.O. trunk to the local office code.	• Y=19 (1) 000-255: Trunk No. (2) XXXX: Trunk ID Code (Local Office Code)
CM90	Assign the 911 Notification key on the DESKCON. **NOTE:** *Do not assign this data to the Multi-Function keys.*	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6124: 911 Notification
	To allow an attendant to interrupt the 911 call, assign the Busy Verification key on the DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6107: Busy Verification

E

To provide 911 Notification on D^{term}:

[Series 3300 software required]

	DESCRIPTION	DATA
E		
CM8A	Provide 911 Notification on the D^{term}.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 166: 911 Notification on D^{term} (2) 0: To provide
CM51	Assign the destination station of 911 Notification. **NOTE:** *911 Notification can be provided on the maximum two D^{term}s per system.*	• Y=16 (1) 04: Station No. 1 for 911 Notification 05: Station No. 2 for 911 Notification (2) X-XXXXXXXX: Station No.
CM90	Assign the 911 Notification key to the D^{term}.	• Y=00 (1) My Line No. + , + Key No. (2) F5025: 911 Notification
	To allow a station to interrupt the 911 call, assign the Executive Override key to the D^{term}.	• Y=00 (1) My Line No. + , + Key No. (2) F0006: Executive Override
END		

HARDWARE REQUIRED

MFR card (4RSTB)

EXECUTIVE CALLING

PROGRAMMING

START	DESCRIPTION	DATA
CM13	Assign VIP class to the required stations.	• Y=21 (1) X-XXXXXXXX: Station No. (2) 0: To provide
END		

EXECUTIVE OVERRIDE

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Executive Override in Service Restriction Class A assigned by CM12 Y=02. The setting of data for both called side and calling side of Executive Override (CM15 Y=05 and CM15 Y=09) are required.	• Y=05 Calling Side and Y=09 Called Side (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Executive Override.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*4) (2) A006: Executive Override
CM45	Make the Conference trunk on the MP card in service.	• Y=6 (1) 00-15: MP built-in CFT Circuit No. (2) 1◀: In service
CM90	Assign an Executive Override key to the D^{term}, as needed.	• Y=00 (1) My Line No. + , + Key No. (2) F0006: Executive Override
CM08	Specify the Waiting Tone sent to connected parties during Executive Override.	• 045 (1) 0 : Only once (2) 1◀: Every 4 seconds
END		

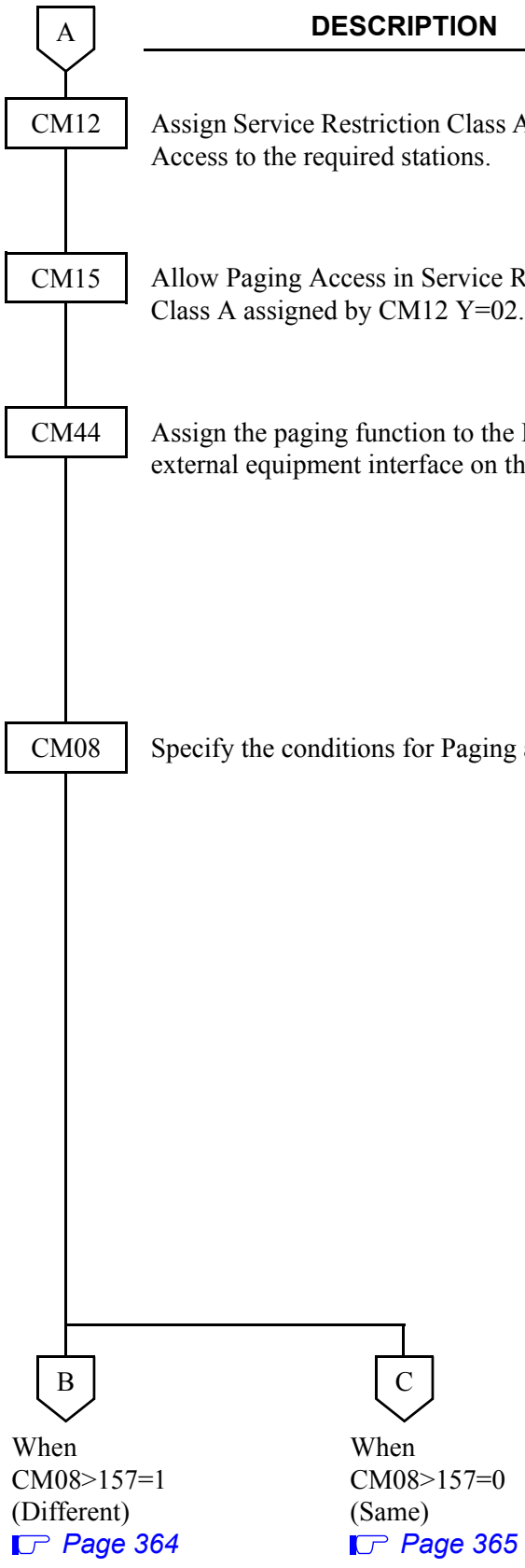
EXTERNAL PAGING WITH MEET-ME

PROGRAMMING

(1) To provide External Paging from stations

When one Paging trunk is connected with one AMP relay circuit.

START	DESCRIPTION	DATA
CM10	Assign the Paging Trunk (COT card and DK card) to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) 000-763: LEN (2) D000-D255: COT card E800-E831 : DK card For PIM0/1 : E800-E807 For PIM2/3 : E808-E815 For PIM4/5 : E816-E823 For PIM6/7 : E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM14	Assign the Paging Trunk (COT card and DK card) to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255 : COT card E800-E831 : DK card For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
A		



DESCRIPTION	DATA
Assign Service Restriction Class A for Paging Access to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
Allow Paging Access in Service Restriction Class A assigned by CM12 Y=02.	• Y=08 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
Assign the paging function to the DK card or external equipment interface on the MP card.	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. of DK card 313: Built-in External Equipment Interface (2) 02XX: Speaker Paging Start XX : 00-09: Speaker Paging Zone 0-9 assigned by CM30 Y=28
Specify the conditions for Paging access.	(1) 094: Paging Access Tone (2) 0 : To send 1◀: Not sent
	(1) 096: Hook flash Signal to the Paging Equipment (2) 0 : To send 1◀: Not sent
	(1) 149: Automatic Call Back when the paging station is busy through non delay operation (2) 0 : Available 1◀: Not available
	(1) 157: Access code for Paging Access and Answer (2) 0 : Same 1◀: Different

	DESCRIPTION	DATA
B		
CM20	Assign the access code for Paging Access and Answer.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (86) (2) 100-163 : For Paging Access (Route 00-63) (07) A070-A079: For Paging Answer (Zone 0-9) A080 : Paging Cancel (Delay Operation)
CM30	Assign the data for Paging Trunk to the trunk number assigned by CM10/CM14.	• Y=00 Trunk Route allocation (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. • Y=28 Zone/Kind of Paging (1) 000-255: Trunk No. (2) X Z X: 0-9: Paging Answer Zone 0-9 Z: Kind of Paging 0: No answer 2: Non-delay answer 4: Non-delay and delay answer
CM35	Assign the Paging trunk to the trunk route number assigned by CM30 Y=00.	• Y=00 (1) 00-63: Trunk Route No. (07) (2) 05 • Y=08 Dial Pulse Sending Capability (1) 00-63: Trunk Route No. (2) 1: No dial pulses are sent out
END		

C

	DESCRIPTION	DATA
CM20	Assign the access code for Paging Access and Answer.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A070-A079: For Paging Access/Paging Answer (Zone 0-9) A080 : Canceling of Paging (Delay Operation)
CM30	Assign the data for Paging Trunk to the trunk number assigned by CM10/CM14 as follows. Paging Answer — Trunk 0---------- 50 | | 9---------- 59	• Y=00 Trunk Route allocation (1) 000-255: Trunk No. (2) 50-59: Trunk Route No. • Y=28 Zone/Kind of Paging (1) 000-255: Trunk No. (2) X Z X: 0-9: Paging Answer Zone 0-9 Z: Kind of Paging 0: No answer 2: Non-delay answer 4: Non-delay and delay answer
CM35	Assign the Paging Trunk to the trunk route number assigned by CM30 Y=00.	• Y=00 (1) 50-59: Trunk Route No. (2) 05 • Y=08 Dial Pulse Sending Capability (1) 50-59: Trunk Route No. (2) 1: No dial pulses are sent out

END

When one Paging trunk is connected with multiple AMP relay circuits or one Paging trunk is connected with two AMP relay circuits simultaneously.

[Other than EU]

[Series 3900 software required]

START	DESCRIPTION	DATA
CM10	Assign the Paging Trunk (COT card and DK card) to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) 000-763: LEN (2) D000-D255: COT card E800-E831 : DK card For PIM0/1 : E800-E807 For PIM2/3 : E808-E815 For PIM4/5 : E816-E823 For PIM6/7 : E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM14	Assign the Paging Trunk (COT card and DK card) to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255 : COT card E800-E831 : DK card For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
A		

A

	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Paging Access to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Paging Access in Service Restriction Class A assigned by CM12 Y=02.	• Y=08 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM08	Specify the method of the starting AMP relay circuit. **NOTE 1:** *Set the second data to 0 when one Paging trunk is connected with multiple AMP relay circuits or with two AMP relay circuits simultaneously.* **NOTE 2:** *Set the second data to 1 when one Paging trunk is connected with one AMP relay circuit.*	(1) 734 (2) 0 : To specify by Access Code 1◀: To specify per trunk
	Specify the method of starting AMP relay circuit connection. **NOTE 1:** *This command is effective only when the second data of CM08>734 is set to 0.* **NOTE 2:** *Set the second data to 0 when one Paging trunk is connected with two AMP relay circuits simultaneously.* **NOTE 3:** *Set the second data to 1 when one Paging trunk is connected with multiple AMP relay circuits or with one AMP relay circuit.*	(1) 735 (2) 0 : To connect with two AMP relay circuits 1◀: To connect with one AMP relay circuit

B

B

	DESCRIPTION	DATA
CM44	Assign the paging function to the DK card or external equipment interface on the MP card.	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. of DK card 313: Built-in External Equipment Interface (2) 02XX: Speaker Paging Start XX : 00-09: Speaker Paging Zone 0-9 assigned by CM20 Y=0-3: A070-A079/CM30 Y=28
CM08	Specify the conditions for Paging access.	(1) 094: Paging Access Tone (2) 0 : To send 1◀: Not sent
		(1) 096: Hook flash Signal to the Paging Equipment (2) 0 : To send 1◀: Not sent
		(1) 149: Automatic Call Back when the paging station is busy through non delay operation (2) 0 : Available 1◀: Not available
	Specify the same Access code condition for Paging Access and Answer.	(1) 157: Access code for Paging Access and Answer (2) 0 : Same
CM20	Assign the access code for Paging Access and Answer. **NOTE:** *Paging Answer is effective only when the second data is set to A707.*	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A070-A079: For Paging Answer (Zone 0-9) A080 : Paging Cancel (Delay Operation)

C

	DESCRIPTION	DATA
C		
CM30	Assign the data for Paging Trunk to the trunk number assigned by CM10/CM14. **NOTE 1:** *Set the second data to 00/02 when one Paging trunk is connected with one AMP relay circuit.* **NOTE 2:** *Set the second data to 00 when one Paging trunk is connected with two AMP relay circuits simultaneously.*	• Y=00 Trunk Route allocation (1) 000-255: Trunk No. (2) 50: Trunk Route No. 50 • Y=28 Zone/Kind of Paging (1) 000-255: Trunk No. (2) X Z X: 0: Paging Answer Zone 0 Z: Kind of Paging 0: No answer 2: Non-delay answer 4: Non-delay and delay answer
CM35	Assign the Paging trunk to the trunk route number assigned by CM30 Y=00.	• Y=00 (1) 50-59: Trunk Route No. (2) 05 • Y=08 Dial Pulse Sending Capability (1) 50-59: Trunk Route No. (2) 1: No dial pulses are sent out
END		

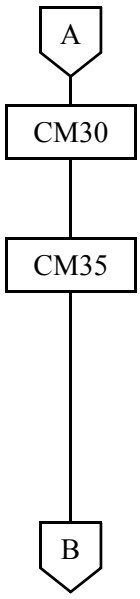
To provide a Paging Key to DESKCON:

	DESCRIPTION	DATA
START		
CM90	Assign a Paging key to DESKCON.	(1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6150-F6159: Paging key (Route No. 50-59)
CM08	Enable pressing the Paging key on DESKCON when the attendant is in idle.	(1) 445 (2) 0 : Available 1◀: Not available
END		

(2) To provide External Paging from Tie Line
[Series 3700 R12.2 software required]

When one Paging trunk is connected with one AMP relay circuit.

START	DESCRIPTION	DATA
CM14	Assign the Paging Trunk (COT card and DK card) to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255 : COT card E800-E831 : DK card For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
CM44	Assign the paging function to the DK card or external equipment interface on the MP card.	(1) XX Y XX: 00-31: DK Card No. assigned by CM14 (E800-E831) Y : 0-3: Circuit No. of DK card (2) 02XX: Speaker Paging Start XX : 00-09: Speaker Paging Zone 0-9 assigned by CM30 Y=28
CM29	Assign a Numbering Plan Group to each Tenant.	(1) 00-63: Tenant No. (2) 710-713: Numbering Plan Group 0-3
CM20	Assign the access code for Paging Access and Answer.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) 100-163 : For Paging Access (Trunk Route 00-63)
A		



DESCRIPTION	DATA
Assign the data for Paging Trunk to the trunk number assigned by CM10/CM14.	• Y=00 Trunk Route allocation (1) 000-255: Trunk No. (2) 00-63: Trunk Route No.
Assign the Paging Trunk to the trunk route number assigned by CM30 Y=00.	• Y=00 (1) 00-63: Trunk Route No. (2) 05 • Y=08 Dial Pulse Sending Capability (1) 00-63: Trunk Route No. (2) 1: No dial pulses are sent out

B

CM35

DESCRIPTION	DATA
Assign the PAD control pattern to the paging trunk route and Tie Line.	• Y=19 (1) 00-63: Trunk Route No. (2) 0-3 : Programmable PAD (See CM42) 4-7◀: Fixed PAD (See the following Table)

CONNECTION PATTERNS (A-B)	PAD DATA OF B TRUNK			
	DATA=4 (T/R)	DATA=5 (T/R)	DATA=6 (T/R)	DATA=7 (T/R)
Station-ODT/IDT (4W E&M)	8/16 (0/16)	4/4 (-4/4)	8/0 (0/8)	8/12 (0/12)
Tone-ODT/IDT (4W E&M)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)
COT/DID/ODT (2W E&M)/IPT-ODT/IDT (4W E&M)	8/0 (0/0)	4/4 (-4/4)	8/0 (0/0)	4/4 (-4/4)
ODT/IDT (4W E&M)-ODT/IDT (4W E&M)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)
DTI/BRT/PRT/CCT/Virtual IPT-ODT /IDT(4W E&M)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)
Station-COT/LDT/ODT (2W E&M)	0/0	0/0	3/3	0/0
Tone-COT/LDT/ODT (2W E&M)	0/0	0/0	0/0	0/0
COT/DID/ODT (2W E&M)/IPT-COT/LDT/ODT (2W E&M)	0/0	0/0	0/0	0/0
ODT/IDT (4W E&M)-COT/LDT/ODT (2W E&M)	0/0	0/0	0/0	0/0
DTI/BRT/PRT/CCT/Virtual IPT-COT/LDT/ODT (2W E&M)	0/0	0/0	0/0	0/0
Station-DTI	12/12	0/8	4/12	0/12
Tone-DTI	0/0	0/0	0/0	0/0
COT/DID/IPT-DTI	0/0	0/0	0/0	0/0
ODT/IDT-DTI	0/0	0/0	0/0	0/0
DTI/BRT/PRT/CCT/Virtual IPT-DTI	0/0	0/0	0/0	0/0

T/R: Transmit/Receive
+ : Gain
– : Loss

C

C

CM42

DESCRIPTION	DATA
When using the programmable PAD (CM35 Y=19, 2nd data=0-3), assign the PAD data.	(1) 50-65 (See the following Table) (2) 00-15 (See the following Table)

PATTERN / 1ST DATA (1)	PAD DATA PATTERNS				CONNECTING PATTERNS (A TRUNK-B TRUNK)
	CM35 Y=19 2ND DATA=0	CM35 Y=19 2ND DATA=1	CM35 Y=19 2ND DATA=2	CM35 Y=19 2ND DATA=3	
50 ≀ 65	50	54	58	62	Station -COT/LDT/ODT/IDT
	51	55	59	63	Tone -COT/LDT/ODT/IDT
	52	56	60	64	COT/LDT/IPT -COT/LDT/ODT/IDT
	53	57	61	65	DTI/BRT/PRT/CCT/ Virtual IPT -COT/LDT/ODT/IDT
	50	54	58	62	Station/Tone-DTI
	51	55	59	63	COT/LDT/IPT-DTI
	52	56	60	64	ODT/IDT-DTI
	53	57	61	65	DTI/BRT/PRT/CCT/ Virtual IPT-DTI

2ND DATA (2) / PATTERNS		PAD DATA OF B TRUNK (T/R) [dB]				
		COT/LDT	ODT (4W E&M)	ODT (2W E&M)	IDT	DTI
00 ≀ 15	00	0/0	8/0	0/0	0/0	0/0
	01	0/0	8/16	0/0	0/16	0/16
	02	0/0	4/4	0/0	-4/4	4/4
	03	3/3	8/8	3/3	0/8	0/8
	04	0/0	8/12	0/0	0/12	0/12
	05	6/6	0/0	6/6	-8/0	8/8
	06	0/-5	12/12	0/0	4/12	4/12
	07	-3/-3	12/4	0/0	4/4	12/12
	08	Not Used	Not Used	Not Used	Not Used	2/12
	09	Not Used	Not Used	Not Used	Not Used	4/12
	10 ≀ 15	Not Used				

T/R: Transmit/Receive
– : Loss

D

	DESCRIPTION	DATA
D		
CM36	For Speaker Paging, allow tandem connection between the incoming trunk route and the outgoing trunk route.	• Y=0 (1) XX ZZ XX: 00-63: Incoming Trunk Route ZZ : 00-63: Outgoing Trunk Route (2) 0: Allow
CM41	Assign the forced release timer when the Paging Trunk is not released after seizing the trunk. **NOTE:** *If the 2nd data is set to 00, forced release is not performed.*	• Y=0 (1) 120 (2) 00-99: 0-396 seconds (4 second increments) If no data is set, the default setting is 180 seconds.
END		

When one Paging trunk is connected with multiple AMP relay circuits or one Paging trunk is connected with two AMP relay circuits simultaneously.

[Other than EU]

[Series 3900 software required]

START	DESCRIPTION	DATA
CM14	Assign the Paging Trunk (COT card and DK card) to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255 : COT card E800-E831 : DK card For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
	Specify the method of the starting AMP relay circuit. **NOTE 1:** *Set the second data to 0 when one Paging trunk is connected with multiple AMP relay circuits or with two AMP relay circuits simultaneously.* **NOTE 2:** *Set the second data to 1 when one Paging trunk is connected with one AMP relay circuit.*	(1) 734 (2) 0 : To specify by Access Code 1◀: To specify per trunk
A		

A

	DESCRIPTION	DATA
CM08	Specify the method of starting AMP relay circuit connection. **NOTE 1:** *This command is effective only when the second data of CM08>734 is set to 0.* **NOTE 2:** *Set the second data to 0 when one Paging trunk is connected with two AMP relay circuits simultaneously.* **NOTE 3:** *Set the second data to 1 when one Paging trunk is connected with multiple AMP relay circuits or with one AMP relay circuit.*	(1) 735 (2) 0 : To connect with two AMP relay circuits 1◀: To connect with one AMP relay circuit
CM44	Assign the paging function to the DK card or external equipment interface on the MP card.	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. of DK card 313: Built-in External Equipment Interface (2) 02XX: Speaker Paging Start XX : 00-09: Speaker Paging Zone 0-9 assigned by CM20 Y=0-3: A070-A079/CM30 Y=28
CM08	Specify the same Access code condition for Paging Access and Answer.	(1) 157: Access code for Paging Access and Answer (2) 0: Same
CM29	Assign a Numbering Plan Group to each Tenant.	(1) 00-63: Tenant No. (2) 710-713: Numbering Plan Group 0-3
CM20	Assign the access code for Paging Access and Answer.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A070-A079: For Paging Answer (Zone 0-9)

B

B

	DESCRIPTION	DATA
CM30	Assign the data for Paging Trunk to the trunk number assigned by CM10/CM14. **NOTE 1:** *Set the second data to 00/02 when one Paging trunk is connected with one AMP relay circuit.* **NOTE 2:** *Set the second data to 00 when one Paging trunk is connected with two AMP relay circuits simultaneously.*	• Y=00 Trunk Route allocation (1) 000-255: Trunk No. (2) 50: Trunk Route No. 50 • Y=28 Zone/Kind of Paging (1) 000-255: Trunk No. (2) X Z X: 0: Paging Answer Zone 0 Z: Kind of Paging 0: No answer 2: Non-delay answer
CM35	Assign the Paging trunk to the trunk route number assigned by CM30 Y=00.	• Y=00 (1) 00-63: Trunk Route No. (2) 05 • Y=08 Dial Pulse Sending Capability (1) 00-63: Trunk Route No. (2) 1: No dial pulses are sent out

C

C

CM35

DESCRIPTION	DATA
Assign the PAD control pattern to the paging trunk route and Tie Line.	• Y=19 (1) 00-63: Trunk Route No. (2) 0-3 : Programmable PAD (See CM42) 4-7◀: Fixed PAD (See the following Table)

CONNECTION PATTERNS (A-B)	PAD DATA OF B TRUNK			
	DATA=4 (T/R)	DATA=5 (T/R)	DATA=6 (T/R)	DATA=7 (T/R)
Station-ODT/IDT (4W E&M)	8/16 (0/16)	4/4 (-4/4)	8/0 (0/8)	8/12 (0/12)
Tone-ODT/IDT (4W E&M)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)
COT/DID/ODT (2W E&M)/IPT-ODT/IDT (4W E&M)	8/0 (0/0)	4/4 (-4/4)	8/0 (0/0)	4/4 (-4/4)
ODT/IDT (4W E&M)-ODT/IDT (4W E&M)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)
DTI/BRT/PRT/CCT/Virtual IPT-ODT /IDT (4W E&M)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)	8/0 (0/0)
Station-COT/LDT/ODT (2W E&M)	0/0	0/0	3/3	0/0
Tone-COT/LDT/ODT (2W E&M)	0/0	0/0	0/0	0/0
COT/DID/ODT (2W E&M)/IPT-COT/LDT/ODT (2W E&M)	0/0	0/0	0/0	0/0
ODT/IDT (4W E&M)-COT/LDT/ODT (2W E&M)	0/0	0/0	0/0	0/0
DTI/BRT/PRT/CCT/Virtual IPT-COT/LDT/ODT (2W E&M)	0/0	0/0	0/0	0/0
Station-DTI	12/12	0/8	4/12	0/12
Tone-DTI	0/0	0/0	0/0	0/0
COT/DID/IPT-DTI	0/0	0/0	0/0	0/0
ODT/IDT-DTI	0/0	0/0	0/0	0/0
DTI/BRT/PRT/CCT/Virtual IPT-DTI	0/0	0/0	0/0	0/0

T/R: Transmit/Receive
+ : Gain

D

D

CM42

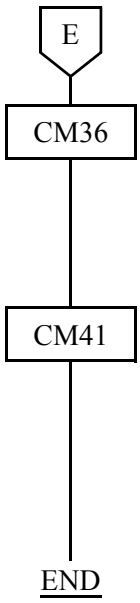
DESCRIPTION	DATA
When using the programmable PAD (CM35 Y=19, 2nd data=0-3), assign the PAD data.	(1) 50-65 (See the following Table) (2) 00-15 (See the following Table)

PATTERN / 1ST DATA (1)	PAD DATA PATTERNS				CONNECTING PATTERNS (A TRUNK-B TRUNK)
	CM35 Y=19 2ND DATA=0	CM35 Y=19 2ND DATA=1	CM35 Y=19 2ND DATA=2	CM35 Y=19 2ND DATA=3	
50 ≀ 65	50	54	58	62	Station -COT/LDT/ODT/IDT
	51	55	59	63	Tone -COT/LDT/ODT/IDT
	52	56	60	64	COT/LDT/IPT -COT/LDT/ODT/IDT
	53	57	61	65	DTI/BRT/PRT/CCT/ Virtual IPT -COT/LDT/ODT/IDT
	50	54	58	62	Station/Tone-DTI
	51	55	59	63	COT/LDT/IPT-DTI
	52	56	60	64	ODT/IDT-DTI
	53	57	61	65	DTI/BRT/PRT/CCT/ Virtual IPT-DTI

2ND DATA (2) / PATTERNS		PAD DATA OF B TRUNK (T/R) [dB]				
		COT/LDT	ODT (4W E&M)	ODT (2W E&M)	IDT	DTI
00 ≀ 15	00	0/0	8/0	0/0	0/0	0/0
	01	0/0	8/16	0/0	0/16	0/16
	02	0/0	4/4	0/0	-4/4	4/4
	03	3/3	8/8	3/3	0/8	0/8
	04	0/0	8/12	0/0	0/12	0/12
	05	6/6	0/0	6/6	-8/0	8/8
	06	0/-5	12/12	0/0	4/12	4/12
	07	-3/-3	12/4	0/0	4/4	12/12
	08	Not Used	Not Used	Not Used	Not Used	2/12
	09	Not Used	Not Used	Not Used	Not Used	4/12
	10 ≀ 15	Not Used				

T/R: Transmit/Receive
– : Loss

E



DESCRIPTION	DATA
For Speaker Paging, allow tandem connection between the incoming trunk route and the outgoing trunk route.	• Y=0 (1) XX ZZ XX: 00-63: Incoming Trunk Route ZZ : 00-63: Outgoing Trunk Route (2) 0: Allow
Assign the forced release timer when the Paging Trunk is not released after seizing the trunk. **NOTE:** *If the 2nd data is set to 00, forced release is not performed.*	• Y=0 (1) 120 (2) 00-99: 0-396 seconds (4 second increments) If no data is set, the default setting is 180 seconds.

HARDWARE REQUIRED

Paging Trunk (COT card)
DK card or MP card (built-in DK)
Paging Equipment provided locally

FAX ARRIVAL INDICATOR

PROGRAMMING

Hotlines or House Phone feature assignment is used to implement this feature.
The number of facsimile station numbers and facsimile call station numbers that can be assigned varies with each of the following cases.

- When Hotlines-Inside/Outside are used, a maximum of 100 facsimile stations can be assigned. In addition, a maximum of 100 facsimile call stations can be assigned.
- When House Phone groups are used, a maximum of four facsimile stations can be assigned. In addition, there is no limit to the number of facsimile call stations that can be assigned to each facsimile station.

(1) Hotlines

START	DESCRIPTION	DATA
CM10	Assign the fax call station number. This number is used as the fax call indicator button on the D^{term}. Also this is the number to which the incoming fax call is directed.	(1) 000-763: LEN (2) X-XXXXXXXX : Single Line Station No. FX-FXXXXXXXX: My Line No.
CM14	Assign the fax call station number. This number is used as the fax call indicator button on the D^{term}. Also this is the number to which the incoming fax call is directed. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) X-XXXXXXXX : Single Line Station No. FX-FXXXXXXXX: My Line No.
CM11	Assign a virtual number to be used as a fax call station number. (Similar to CM10/CM14 above but using a virtual extension instead of a real station number.)	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Extension No.
CM13	Assign the function of fax call station to the station or extension assigned above in either CM10/CM14 or CM11.	• Y=29 (1) X-XXXXXXXX: Station No. (2) 0 : Fax call station 1◀: Ordinary station
A		

	DESCRIPTION	DATA
A		
CM52	Assign the fax call station and fax station using Hotlines feature.	• Y=00-99 (1) 0: Fax Call Station (calling side) This is the extension to which the call is directed and will be the fax call indicator on the D^{term}. (2) X-XXXXXXXX: Station No. (1) 1: Fax Station (called side) This is the actual single line port to be connected to the facsimile machine. (2) X-XXXXXXXX: Station No.
CM12	Specify the accommodation of the fax call station to the D^{term}. **NOTE:** *This command needs to be set when assigning a single line station as a fax call station number by CM10/ CM14.*	• Y=05 (1) X-XXXXXXXX: Fax Call Station No. (2) 0 : Accommodated 1◀: Not accommodated
CM90	Assign the fax call station number as the arrival indicator to the D^{term}.	• Y=00 (1) My Line No. + [,] + key No. (2) X-XXXXXXXX: Fax Call Station No.
END		

(2) House Phone

	DESCRIPTION	DATA
START		
CM10	Assign the fax call station number. This number is used as the fax call indicator button on the D^{term}. Also this is the number to which the incoming fax call is directed.	(1) 000-763: LEN (2) X-XXXXXXXX : Single Line Station No. FX-FXXXXXXXX: My Line No.
CM14	Assign the fax call station number. This number is used as the fax call indicator button on the D^{term}. Also this is the number to which the incoming fax call is directed. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) X-XXXXXXXX : Single Line Station No. FX-FXXXXXXXX: My Line No.
A		

	DESCRIPTION	DATA
A		
CM11	Assign a virtual number to be used as a fax call station number. (Similar to CM10/CM14 above but using a virtual extension instead of a real station number.)	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Extension No.
CM13	Assign the function of fax call station to the station or extension assigned above in either CM10/CM14 or CM11.	• Y=29 (1) X-XXXXXXXX: Station No. (2) 0 : Fax call station 1◀: Ordinary station
CM12	Assign the fax call station numbers to a House Phone group.	• Y=03 (1) X-XXXXXXXX: Fax Call Station No. (2) 00-03: Fax Call Group No.
	Specify the accommodation of the fax call station to the D^{term}. **NOTE:** *This command needs to be set when assigning a single line station as a fax call station number by CM10/CM14.*	• Y=05 (1) X-XXXXXXXX: Fax Call Station No. (2) 0 : Accommodated 1◀: Not accommodated
CM51	Assign fax station using House Phone feature.	• Y=14 (1) 00-03: Fax Station (This is the actual single line port to be connected to the facsimile machine.) (2) X-XXXXXXXX: Station No.
CM90	Assign the fax call station number as the arrival indicator to the D^{term}.	• Y=00 (1) My Line No. + , + key No. (2) X-XXXXXXXX: Fax Call Station No.
END		

FLEXIBLE LINE KEY ASSIGNMENT

PROGRAMMING

For the applicable feature programming on Flexible Line Key, refer to each feature:

- DO NOT DISTURB ☞ *Page 346*
- HOTLINE-INSIDE/OUTSIDE ☞ *Page 407*
- INTERCOM ☞ *Page 414*
- PROPRIETARY MULTILINE TERMINAL ☞ *Page 566*
- SAVE AND REPEAT ☞ *Page 600*
- STATION SPEED DIALING ☞ *Page 665*
- TRUNK-DIRECT APPEARANCES ☞ *Page 709*

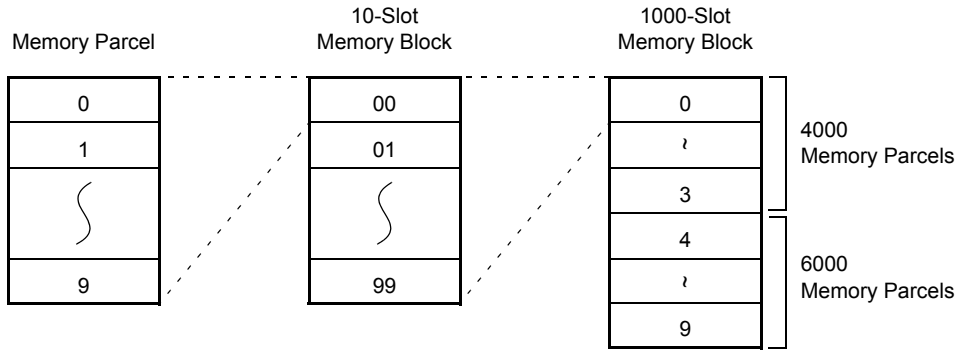
To indicate the busy/idle status of the extensions accommodated to the Flexible Line Keys on the Series E Terminal without the One Touch Speed Dial Keys, assign the following data. Station Speed Dialing memory and One Touch Key memory assignment are used to implement this feature.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Station Speed Dialing in Service Restriction Class A assigned by CM12 Y=02.	• Y=07 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
A		

A

CM73

DESCRIPTION	DATA
Allocate the memory area for Station Speed Dialing to each station. The same memory area must be assigned on CM73 and CM94. The memory area for storing one called number of Station Speed Dialing is called a "Memory Parcel". An assembly of 10 Memory Parcels is called a "10-Slot Memory Block," and one hundred 10-Slot Memory Blocks are called a "1000-Slot Memory Block".	(1) X-XXXXXXXX: My Line No. (2) W XX Y ZZ W : 0-3: 1000- Slot Memory Block No. **NOTE** XX: 00-99: Memory Start Block No. (10-Slot Memory Block) Y : Facility for programming the dialed number from the station 0/1: Effective/Ineffective ZZ : 01-10: Number of 10-Slot Memory Blocks



NOTE: *1000-Slot Memory Block number 4-9 (6000 Memory Parcels) cannot be used to provide BLF function on D^{term} line key.*

Example: If the stored number intended is 10 for Station Number 300, 20 for Station Number 301, and 30 for Station Number 302, the memory areas assignment is as follows.

Station No. (1st Data)	1000-Slot Memory Block No. (2nd Data: W)	Memory Start Block No. (10-Slot Memory Block) (2nd Data: XX)	Number of 10-Slot Memory Block (2nd Data: ZZ)
300	0	00	01
301	0	01	02
302	0	03	03
303	0	06	01

B

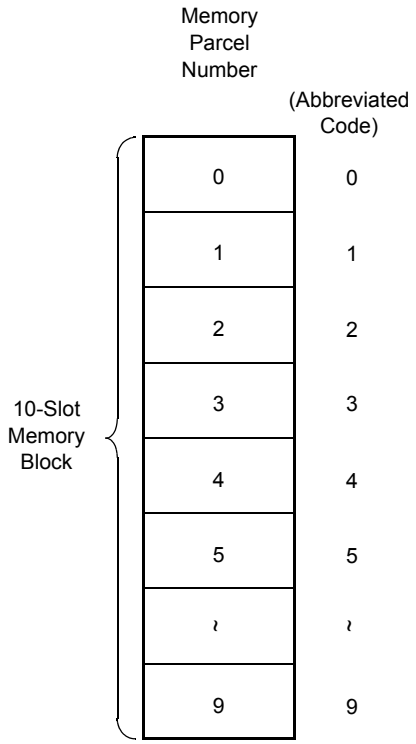
B

CM73

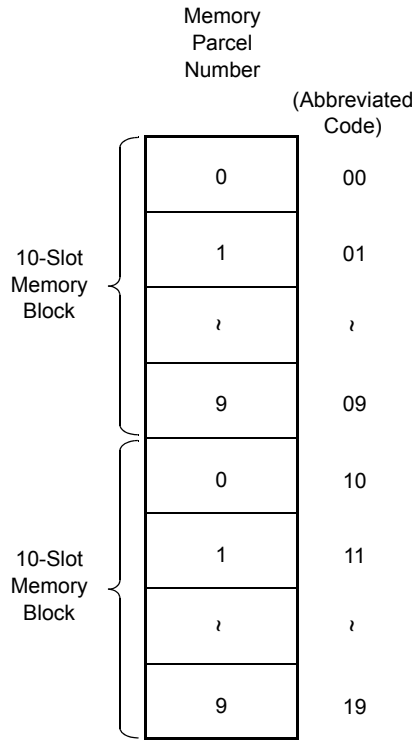
DESCRIPTION **DATA**

The abbreviated codes for this feature are automatically determined by assigning this command, on a station basis.
If the number of Memory Parcels per station does not exceed 10, then Abbreviated Code=0-9.
If the number of Memory Parcels per station exceeds 11, then Abbreviated Code=00-99.
The following figure shows the relation between Abbreviated Codes and Memory Parcels.

In the case of 10 Memory Parcels



In the case of 20 Memory Parcels



C

C

	DESCRIPTION	DATA
CM94	Allocate the memory area for Station Speed Dialing to each station. The same memory area must be assigned on CM73 and CM94, to provide BLF function on D^{term} line key.	(1) X-XXXXXXXX: My Line No. (2) X YY 0 ZZ X : 0-3: 1000-Slot Memory Block No. **NOTE** YY: 00-99: 10-Slot Memory Start Block No. ZZ : 01-10: Number of 10-Slot Memory Blocks

NOTE: *1000-Slot Memory Block number 4-9 (6000 Memory Parcels) cannot be used to provide BLF function on D^{term} line key.*

CM90

Assign Station Speed Dialing keys on each D^{term}.

For the key number and the last two digits of the second data, assign the same number as follows.

1st Data	2nd Data
XXXXXXXX, 01	F1101
XXXXXXXX, 02	F1102
XXXXXXXX, 03	F1103
⋮	⋮
XXXXXXXX, 16	F1116

- Y=00

(1) My Line No. + [,] + Key No.
(2) F11XX
XX: 00-99: Station Speed Dialing 00-99

NOTE 1: *The initial setting of key layout is for 16 Line/Trunk/Feature Keys (Key No. 01-16).*
When using key No. 17-24, data setting of CM12 Y=24, 2nd data=0 is required.

NOTE 2: *A station user should set the required extension number to the line key on D^{term}.*

CM08

Specify the type of busy indication on the BLF of the D^{term} line key as station base or extension base.

(1) 269
(2) 0 : Station base
1◀: Extension base

END

FLEXIBLE NUMBERING PLAN

PROGRAMMING

START	DESCRIPTION	DATA
CM29	Assign a Numbering Plan Group to each Tenant.	(1) 00-63: Tenant No. (2) 710-713: Numbering Plan Group 0-3
CM20	Specify the number of digits for station numbers. **Example:** For setting Station No. "2XXX" (1) 2 (2) 804 **NOTE:** *When the following features are used with PN-AP00-B with AP00 program, do not assign 5 or more digit station number.* • *SMDR/PMS* • *Front Desk Terminal (D^{term})*	• Y=0-3 Numbering Plan Group 0-3 (1) X: 1st digit of Station No. (2) 801: 1 digit 802: 2 digits 803: 3 digits 804: 4 digits 805: 5 digits 806: 6 digits 807: 7 digits 808: 8 digits
CM10	Assign station numbers to the required LEN according to the Numbering Plan specified by CM20. For feature and trunk access codes, refer to the programming of individual features.	(1) 000-763: LEN (2) X-XXXXXXXX: Station No.
CM14	Assign station numbers to the required LEN according to the Numbering Plan specified by CM20. For feature and trunk access codes, refer to the programming of individual features. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) X-XXXXXXXX: Station No.
END		

To provide Single-Digit Feature Access Code:

START	DESCRIPTION	DATA
CM08	To activate this feature, set the data for 050, 051, 069 and 148 to "1".	(1) 050: * Button as Switch Hook Flash. (2) 1◀: Ineffective
		(1) 051: * Button as Switch Hook Flash. (2) 1◀: Ineffective
		(1) 069: Single-Digit Dialing on BT Connection (2) 1◀: Step Call
		(1) 148: Same Last-Digit Redialing on BT Connection (2) 1◀: Ineffective
	Provide the System with the Single-Digit Feature Access Code on RBT (or Voice Call Connection).	(1) 156 (2) 0: Available
	Provide the System with the Single-Digit Feature Access Code on BT Connection.	(1) 208 (2) 0: Available
END		

FLEXIBLE RINGING ASSIGNMENT

PROGRAMMING

START

DESCRIPTION

DATA

CM08

Specify the method of tone ringer selection.

INITIAL

(1) 390
(2) 1◀: As per CM15 Y=83, 84, 93, CM35 Y=34, 164, CM65 Y=40

CM12

Assign Service Restriction Class C for the ring tone for D^{term}s on internal calls to required stations.

- Y=07
(1) X-XXXXXXXX: Station No.
(2) 00-15◀: Service Restriction Class C

CM15

Specify the Ringer Tone Pattern of the D^{term} for terminating calls from a station.

- Y=83, 84, 93
(1) 00-15: Service Restriction Class C assigned by CM12 Y=07
(2) See the table below.
[Series 3200 R6.1 software required]

Y=83	Y=84	Y=93: 0	Y=93: 1◀
0	0	Ringer Tone Pattern 3	Ringer Tone Pattern 7
0	1◀	Ringer Tone Pattern 6	Ringer Tone Pattern 1
1◀	0	Ringer Tone Pattern 5	Ringer Tone Pattern 0
1◀	1◀	Ringer Tone Pattern 4	Ringer Tone Pattern 2

CM35

Specify the Ringer Tone Pattern of the D^{term} to each trunk route.

- Y=34, 164
(1) 00-63: Trunk Route No.
(2) See the table below.
[Series 3200 R6.1 software required]

Y=34	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

A

A

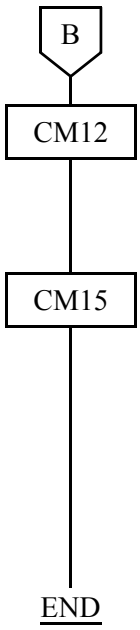
	DESCRIPTION	DATA
CM65	Specify the ring frequency of the D^{term}. **[Series 3200 R6.1 software required]**	• Y=40 (1) 00-63: Tenant No. assigned by CM30 Y=01/CM12 Y=04 (2) See the table below.

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀	
		Electra Terminal/ D^{term} Series III	Elite Terminal/D^{term} Series E/ D^{term} Series i
0	Door Phone Ringer Tone	1024 + 1285 [Hz]/ 16 [Hz] Modulating Signal	1100 + 1400 [Hz]/ 16 [Hz] Modulating Signal
1	Ringer Tone 1	480 + 606 [Hz]/ 8 [Hz] Modulating Signal	520 + 660 [Hz]/ 8 [Hz] Modulating Signal
2	Ringer Tone 2	600 + 700 [Hz]/ 16 [Hz] Modulating Signal	660 + 760 [Hz]/ 16 [Hz] Modulating Signal
3	Ringer Tone 3	1024 [Hz] Envelop	1100 [Hz] Envelop
4	Ringer Tone 4	500 [Hz]	540 [Hz]
5	Ringer Tone 5	1024 [Hz]	1100 [Hz]
6	Not used	1285 + 1024 [Hz]	1400 + 1100 [Hz]
7	Not used	480 + 606 [Hz]/ 16 [Hz] Modulating Signal	520 + 660 [Hz]/ 16 [Hz] Modulating Signal

NOTE: *This data is effective only for D^{term} Series i.*
When using Electra Terminal/D^{term} Series III/Elite Terminal/D^{term} Series E, using D^{term} Series i with Series 3100 software or before, or when accommodating D^{term} Series i in TDM based Remote PIM, the second data is fixed to 1.

CM90	Disable the ringing on each line/extension key of a D^{term}, if required. Refer to DELAYED RINGING, when providing Delayed Ringing to each line/extension key. ☞ Page 257	• Y=01 Day Mode (1) My Line No. + [,] + Key No. (2) 0: Disabled

B



DESCRIPTION	DATA
Assign Service Restriction Class B for Off-Hook Ringing to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
Allow Off-Hook Ringing for incoming calls to Line/Trunk Keys on D^{term}s in Service Restriction Class B assigned by CM12 Y=02. **NOTE:** *This data is effective in the following status.* • *Hook Switch-OFF HOOK* • *SPEAKER Lamp-OFF*	• Y=68 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 0 : Restricted 1◀: Allow

HARDWARE REQUIRED

D^{term} and DLC card

To set the ringing tone setting by Day Mode/Night Mode, do the following programming.

[Series 3700 R12.2 software required]

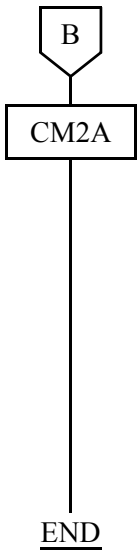
START	DESCRIPTION	DATA
CM08	Provide the change the ringing tone depend on Day Mode/Night Mode Change.	(1) 577 (2) 0: To provide
CMEC	Apply Day Mode/Night Mode to all D^{term}s. **NOTE 1:** *This data is effective only when the 2nd data is set to 0.* **NOTE 2:** *This command is performed after CM08>577 is set, or when the station tenant number of My Line is changed by CM12 Y=04.*	• Y=9 (1) 0 (2) 0 : Start to apply 1 : Now applying 3◀: Stand by
CM90	Assign the setting of D^{term} ringing tone by Day Mode/Night Mode.	• Y=02 (1) My Line No. + , + Key No. (01-24) (2) 0 : Day Mode: No ringing/Night Mode: No ringing 1◀: Day Mode: Ringing/Night Mode: Ringing 2 : Day Mode: No ringing/Night Mode: Ringing 3 : Day Mode: Ringing/Night Mode: No ringing
END		

FORCED ACCOUNT CODE

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the processor for Forced Account Code.	(1) 216 (2) 0 : MP card 1◀: OAI (ACF)
	Specify whether Service Set Tone is provided after dialing the access code for Forced Account Code.	(1) 362 (2) 0 : No tone 1◀: Service Set Tone
CM12	Assign Service Restriction Class A for Forced Account Code to required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Forced Account Code in Service Restriction Class A assigned by CM12 Y=02.	• Y=31 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
	Specify the entry of Forced Account Code after dialing an LCR access code and desired number. **[Series 3900 software required]** **NOTE:** *To provide this operation, the following data assignments are required.* *- Toll restriction (CM12 Y=01, CM8A Y=5XXX: 000, CM81)* *- LCR origination (CM20: A126/A127/A128/A129, CM8A Y=5XXX: 180, CM85)*	• Y=401 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1 : Allow 7◀: Restricted
CM20	Assign the access code for Forced Account Codes.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A087
A		

	DESCRIPTION	DATA
A		
CM42	Specify the maximum number of digits for Forced Account Code with MP.	(1) 12 (2) 01-16 : 1 digit-16 digits NONE◀: 10 digits
CM2A	Assign the ID Code Development number for Forced Account Code.	• Y=A0 (1) 1 (2) 0-9: ID Code Development No. 00-09
	Assign the ID Code for Forced Account Code.	• Y=00-09 ID Code Development No. 00-09 (1) X-XX...XX (Maximum 16 digits): ID Code for Forced Account Code (2) 0000-2999: ID Code Pattern No.
	Assign the purpose of ID Code.	• Y=10 (1) 0000-2999: ID Code Pattern No. (2) 0 : Validate the ID Code entered from stations and trunks 1 : Validate the ID Code entered from stations 3◀: Invalidate the ID Code entered from stations and trunks
	Assign the desired Trunk Restriction Class for each ID Code Pattern number.	• Y=11 (1) 0000-2999: ID Code Pattern No. (2) 1◀: Unrestricted (RCA) 2 : Non-Restricted-1 (RCB) 3 : Non-Restricted-2 (RCC) 4 : Semi-Restricted-1 (RCD) 5 : Semi-Restricted-2 (RCE) 6 : Restricted-1 (RCF) 7 : Restricted-2 (RCG) 8 : Fully-Restricted (RCH)
B		



DESCRIPTION	DATA
Assign the desired Service Restriction Class A to each ID Code Pattern number. The features available in each class are assigned by CM15.	• Y=12 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class A
Assign the desired Service Restriction Class B to each ID Code Pattern number. The features available in each class are assigned by CM15.	• Y=13 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class B
Assign the desired Service Restriction Class C to each ID Code. The features available in each class are assigned by CM15.	• Y=14 (1) 0000-2999: ID Code Pattern No. (2) 00-15◀: Service Restriction Class C

NOTE: *Approximately 3000 Forced Account Codes including Authorization Codes and DISA codes can be defined.*

Number of the codes varies with the number of digits assigned to each code. For details, refer to "BUSINESS/HOTEL/DATA FEATURES AND SPECIFICATIONS".

GROUP CALL

AUTOMATIC CONFERENCE (6/10 PARTY)

This feature is not available because the conference card (CFTB) is not available any more.

START	DESCRIPTION	DATA
CM10	Assign the card number of the Conference trunk (CFT card) to the required LEN. (INITIAL) **NOTE:** *The CFT card number must be assigned to the first LEN (Level 0) of each LT slot.*	(1) 000-763: LEN (2) ED00-ED03: CFT Card No.
CM14	Assign the card number of the Conference trunk (CFT card) to the required LEN. **[Series 3200 R6.2 software required]** (INITIAL) **NOTE:** *The CFT card number must be assigned to the first LEN (Level 0) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) ED00-ED03: CFT Card No.
CM56	Assign the stations which belongs to each paging group, and their number within the group. A maximum of 9 stations can be paged simultaneously except the conference leader. **NOTE 1:** *Single line telephones, D^{term}s and PS can be assigned as the station within the group.* *A virtual-line cannot be assigned.* **NOTE 2:** *A station can belong to multiple groups.*	• Y=00-07 Simultaneous Paging Group 0-7 (1) 00-15: Serial No. within the Group (2) X-XXXXXXXX: Station No.
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
A		

	DESCRIPTION	DATA
A		
CM15	Allow Simultaneous Paging to the group in Service Restriction Class A.	• Y=119 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
CM20	Assign the access code of paging groups for Group Call-Automatic Conference (6/10 Party). **NOTE:** *Even if an extension does not belong to the conference group, the extension can page the conference group, and can re-participate in the conference if there is an idle circuit on the Conference Trunk.*	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A200-A207: Simultaneous Paging Group 0-7 A210-A217: Re-participation Group 0-7
CM90	Assign a Group Call-Automatic Conference (6/10 Party) key of each paging group to the D^{term}, if required. **NOTE:** *Even if an extension does not belong to the conference group, the extension can page the conference group, and can re-participate in the conference if there is an idle circuit on the Conference Trunk.*	• Y=00 (1) My Line No. + [,] + Key No. (2) F0B00-F0B07: Simultaneous Paging Group 0-7 F0B10-F0B17: Re-participation Group 0-7
CM41	Specify the duration of simultaneous paging.	• Y=0 (1) 95 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
END		

HARDWARE REQUIRED

CFT trunk

2 WAY CALLING

START	DESCRIPTION	DATA
CM56	Assign the stations which belong to each paging group, and their number within the group. A maximum of 9 stations can be paged simultaneously except the conference leader. **NOTE 1:** *Single line telephones, D^{term}s and PS can be assigned as the station within the group. A virtual-line cannot be assigned.* **NOTE 2:** *A station can belong to multiple groups.*	• Y=00-07: Simultaneous Paging Group 0-7 (1) 00-15: Serial No. within the Group (2) X-XXXXXXXX: Station No.
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Simultaneous Paging to the group in Service Restriction Class A.	• Y=119 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
CM20	Assign the access code of paging groups for Group Call-2 Way Calling. **NOTE:** *Even if an extension does not belong to the conference group, the extension can page the conference group.*	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A220-A227: Simultaneous Paging Group 0-7
CM90	Assign a Group Call-2 Way Calling key of each paging group to the D^{term}, if required. **NOTE:** *Even if an extension does not belong to the conference group, the extension can page the conference group.*	• Y=00 (1) My Line No. + [,] + Key No. (2) F0B20-F0B27: Simultaneous Paging Group 0-7
END		

GROUP CALL BY PILOT NUMBER DIALING

PROGRAMMING

START	DESCRIPTION	DATA
CM11	Assign the Virtual Line station number for Group Call Pilot Station to the required Virtual LEN. **NOTE:** *This Virtual Line station must be exclusively used for Group Call Pilot Station.*	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Line Station No.
CM13	Provide the Virtual Line station with Group Call By Pilot Number Dialing function.	• Y=45 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) 0: To provide
CM12	Specify the group number which is the destination of a call from the Group Call Pilot Station.	• Y=43 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) 00-19: Group Call No. 00-19
CM18	To provide the Station Hunting group of the Group Call Pilot Stations, assign station numbers, one by one, as shown below. 1st Operation { (1)Virtual Line Station A, (2)Virtual Line Station B 2st Operation { (1)Virtual Line Station B, (2)Virtual Line Station C **NOTE:** *The number of Virtual Line stations per Station Hunting group set by CM18 becomes the maximum number of simultaneous calling in each group of Group Call By Pilot Number Dialing.*	• Y=0 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) X-XXXXXXXX: Another Virtual Line Station No. assigned by CM11
A		

A

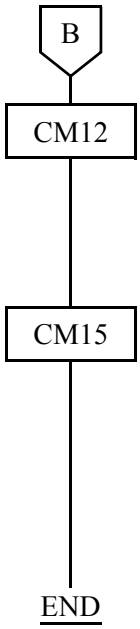
	DESCRIPTION	DATA
CM18	Assign the Pilot Station to required station number within the Station Hunting group. For the member stations, set the data to "0". **NOTE:** *The maximum number of stations that can be included on one Station Hunting group is 32 including the Pilot Station.*	• Y=1 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 For PS/WLAN station: Virtual Station No./WLAN Virtual Station No. assigned by CM14 (2) 0◀: Member Station 1 : Pilot Station
CM57	Assign the station numbers which are to be included in the Group Call group, and their serial numbers in the group.	• Y=10-29 Group Call No. 00-19 (1) 00-31: Serial No. within the Group (2) X-XXXXXXXX: Station No. assigned by CM10/CM14 For PS/WLAN station: Virtual Station No./WLAN Virtual Station No. assigned by CM14

NOTE 1: *The maximum number of Group Call stations per group is as follows:*
Single line station/D^{term} (My Line/Virtual Line): 32 stations
PS/WLAN station: 8 stations (except the PS in roaming state)

NOTE 2: *The maximum number of simultaneous calling for single line stations/PSs/WLAN stations is 12 per FP. When the number of single line stations/PSs/WLAN stations exceeds 12, allocate the rest of stations to another FP. For a D^{term} (My Line/Virtual Line), there is no limit as the above.*

B

To provide Calling Name Display to a PS/WLAN station:



DESCRIPTION	DATA
Assign Service Restriction Class A to a PS/WLAN station.	• Y=02 (1) X-XXXXXXXX: PS/WLAN station No. assigned by CM1C (2) XX ZZ XX: 00-15◀: Service Restriction Class A
Allow Calling Name Display-PS in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *Set the second data 1 (Restricted) to the Service Restriction Class A which WLAN station number is assigned.*	• Y=123 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 1◀: Restricted

GROUP LISTENING

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Group Listening to the required D^{term}s.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Group Listening in Service Restriction Class B assigned by CM12 Y=02.	• Y=70 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 0: Allow
END		

HOLD

CALL HOLD

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Hold in Service Restriction Class A assigned by CM12 Y=02.	• Y=01 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Hold.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (11) (2) A046: Call Hold
CM90	Assign a Call Hold key to the D^{term}, if needed. **NOTE 1:** *This line key is not the same key normally assigned to the key labeled HOLD. That key is normally assigned to the Non Exclusive/Exclusive Hold feature.* **NOTE 2:** *When a station has a Camp-on Call, flashing the switchhook and dialing the Call Hold feature results in the connecting to the camped-on party.*	• Y=00 (1) My Line No. + , + Key No. (2) F0046
END		

DUAL HOLD

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for this feature to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Dual Hold in Service Restriction Class B assigned by CM12 Y=02.	• Y=64 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
END		

EXCLUSIVE HOLD

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Exclusive Hold.	(1) 130 (2) 1◀: Available
CM41	Specify the Recall timing on Exclusive Hold.	• Y=0 (1) 06 (2) 01-98: 4-392 seconds (4 second increments) If no data is set, the default setting is 236-240 seconds.
END		

HOTLINE-INSIDE/OUTSIDE

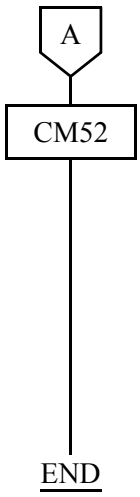
PROGRAMMING

For internal Hotline:

START	DESCRIPTION	DATA
CM12	Assign the Hotline station to the required stations.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 04: Hotline Station
CM52	Set up the Hotline pair. Bidirectional Hotlines should be assigned as follows: Hotline Pair No. / Calling Side / Called Side 00 / Station A / Station B 01 / Station B / Station A **NOTE 1:** *There is a maximum of 100 assignments for Hotline destination. If internal bidirectional Hotline calling is required, two assignments (one for each direction) must be made. A maximum of 50 bidirectional Hotlines can be assigned.*	• Y=00-99 Hotline Pair No. (1) 0: Calling Side (2) X-XXXXXXXX: Station No. /Data Station No. assigned by CM12 Y=03 (1) 1: Called Side (2) X-XXXXXXXX: Station No. /Data Station No. E000-E007 : Attendant Console No. **NOTE 2:** *Do not assign station number with first digit "0".*
CM08	Specify the result of a Switch Hook Flash on each Hotline station. To allow Hotline stations to transfer a call or access a feature, set the data to "0".	(1) 057 (2) 0 : Special Dial Tone 1◀: Attendant Recall
END		

For Hotline-Outside:

START	DESCRIPTION	DATA
CM12	Assign a Hotline to the required stations.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 04: Hotline
CM71	Allocate the memory area for the Hotline-Outside call. For example, to assign the 10 Hotline-Outside calls into No. 100 through No. 109 Memory Slots, 2nd data is “100010”. Abbreviated Codes are automatically assigned as shown below: Memory Slot 100 — Abbreviated Code 00 Memory Slot 109 — Abbreviated Code 09	(1) 65: For Hotline-Outside (2) XXX YYY XXX: 000-299: Starting Memory Slot No. in blocks YYY: 001-100: Number of Memory Slots to be assigned in blocks
CM72	Set the outside party’s number to each Memory Slot number.	• Y=0 (1) 000-299: Memory Slot No. (2) XXXX + , + YY...Y: Outside Party’s No. XXXX : Access Code (Maximum 4 digits) , : Separator Mark YY...Y : Outside Party’s No. (Maximum 26 digits) NONE◀: No data • Y=1 (1) 000-299: Memory Slot No. (2) XXX...X: Station Name Character Code (Maximum 32 digits: 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ Page B2 • Y=2 (1) 000-299: Memory Slot No. (2) XXX...X: Station Name Character by MAT/CAT (Maximum 16 characters) NONE◀: No data
A		



DESCRIPTION	DATA
Define the Hotline pairs.	• Y=00-99 Hotline pair No. (1) 0: Calling Station 1: Called Outside party (2) Station No. (For Calling Station) C XX (For Called Outside party) XX: Abbreviated Code given by CM71 **NOTE:** *Do not assign station number with first digit "0".*

For Brokerage Hotline:

START	DESCRIPTION	DATA
CM11	Assign the Virtual station numbers to the required virtual LEN.	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Station No.
CM12	Assign the Hotline to the Virtual station number assigned by CM11.	• Y=03 (1) X-XXXXXXXX: Virtual Station No. (2) 04: Hotline
CM52	Define the Hotline pairs.	• Y=00-99 Hotline Pair No. (1) 0: Calling party (2) X-XXXXXXXX: Virtual Station No. (1) 1: Called party (2) X-XXXXXXXX: Station No. C XX (For Outside party) XX: Abbreviated Code given by CM71 (See Hotline-Outside) **NOTE:** *Do not assign station number with first digit "0".*
CM90	Assign the Virtual Line station number and Release keys on the D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) X-XXXXXXXX: Virtual Station No. F1020 : Release key
END		

INDIVIDUAL ATTENDANT ACCESS

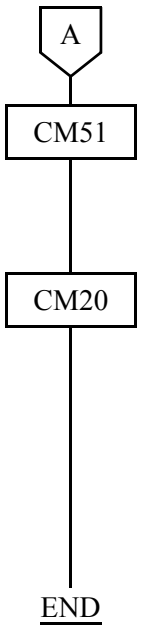
PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign an Attendant Console Number to each DESKCON.	(1) 000-763: LEN (2) E000-E007: ATTCON No.
CM14	Assign an Attendant Console Number to each DESKCON. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) E000-E007: ATTCON No.
CM20	Assign the access code for Individual Attendant Access.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A095
CM08	Specify the Individual Attendant Access capability provided from a station belonging to a different tenant.	(1) 143 (2) 0 : Restricted 1◀: Allowed
END		

INTERCEPT ANNOUNCEMENT

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign the Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM12	Assign Service Restriction Class A to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Digital Announcement Trunk access in Service Restriction Class A assigned by CM12 Y=02.	• Y=33 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM49	Assign the function to each Digital Announcement Trunk card.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. (EB002-EB127) (2) 0A00: Call Forwarding-Intercept Announcement
A		



DESCRIPTION	DATA
Assign a Digital Announcement Trunk card as the destination of the call intercepted on each Tenant.	• Y=07 (1) 00-63: Tenant No. (2) EB000-EB127: Digital Announcement Trunk Card No.
To record, replay, or delete a message, assign the appropriate Digital Announcement Trunk access codes.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Digital Announcement Trunk access (Record) A101: Digital Announcement Trunk access (Replay) A102: Digital Announcement Trunk access (Delete)

NOTE: *Only one common message can be provided for the different intercept conditions.*

HARDWARE REQUIRED

DAT card or MP card (built-in DAT)

INTERCOM

MANUAL INTERCOM

PROGRAMMING

START

DESCRIPTION

DATA

CM11

Assign a Manual Intercom number to the Virtual LEN. The last two digits of each Manual Intercom number represent the Manual Intercom Group number.

NOTE: *A Manual Intercom group can consist of two to six D^{term}s. A maximum of 25 Manual Intercom groups can be assigned per system.*

GROUP No.	INTERCOM No.
00	A200, A300, A400, A500, A600, A700
01	A201, A301, A401, A501, A601, A701
≀	≀
24	A224, A324, A424, A524, A624, A724

(1) 000-255: Virtual LEN
[Series 3300 software or before]
0000-1019: Virtual LEN
[Series 3400 software or later]
(2) A200-A224
A300-A324
A400-A424
A500-A524
A600-A624
A700-A724
(Manual Intercom Number)

A X YY
X : 2-7: Serial No. in a Group
YY: Manual Intercom Group No.

CM12

Assign the Manual Intercom station.

- Y=03

(1) A200-A724: Manual Intercom No. assigned by CM11
(2) 06: Manual Intercom

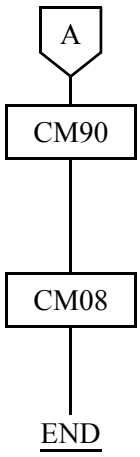
CM56

Assign the My Line No. of each D^{term} to each Manual Intercom number.

- Y=11

(1) A200-A724: Manual Intercom No. assigned by CM11
(2) X-XXXXXXXX: My Line No.

A



DESCRIPTION	DATA
Assign the MANUAL INTERCOM key to each D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) A200-A724: Manual Intercom No. of each D^{term}
Specify the Manual Intercom access capability when a called intercom station has set Do Not Disturb.	(1) 238 (2) 0 : No Ring on 1◀: Ring on (Allowed)

AUTOMATIC INTERCOM

PROGRAMMING

START	DESCRIPTION	DATA
CM11	Assign an Automatic Intercom number to the Virtual LEN. The Automatic Intercom stations are paired as shown below. GROUP No. / INTERCOM No. 00 / A000, A100 01 / A001, A101 ≀ / ≀ 31 / A031, A131 **NOTE:** *The maximum number of Automatic Intercom paired stations per system is 32.*	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) A000-A031 A100-A131 (Automatic Intercom Number) A X YY X : 0/1 to be made one pair. YY: 00-31: Automatic Intercom Group No.
CM12	Assign each Automatic Intercom station.	• Y=03 (1) A000-A031, A100-A131: Automatic Intercom No. assigned by CM11 (2) 05: Automatic Intercom
CM56	Assign the My Line number to each Automatic Intercom number.	• Y=10 (1) A000-A031, A100-A131: Automatic Intercom No. assigned by CM11 (2) X-XXXXXXXX: My Line No.
A		

	DESCRIPTION	DATA
A		
CM90	Assign the AUTOMATIC INTERCOM key to each D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) A000-A031, A100-A131: Automatic Intercom No. of each D^{term}
CM08	Specify the Automatic Intercom access capability when a called intercom station has set Do Not Disturb.	(1) 237 (2) 0 : Restricted 1◀: Allowed
CM13	Specify the busy indication on the Automatic Intercom LED when the other D^{term} of the same Automatic Intercom Group is busy.	• Y=11 (1) X-XXXXXXXX: My Line No. (2) 0 : Allowed 1◀: Restricted
END		

NOTE: *To activate the Voice Announcement call, refer to INTERNAL TONE/VOICE SIGNALING.* ☞ Page 420

DIAL INTERCOM

PROGRAMMING

START

DESCRIPTION

DATA

CM11

Assign a Dial Intercom number to the Virtual LEN. The last two digits of each Dial Intercom number represent the Dial Intercom Group number.
The first digit is the intercom code (0-9) assigned to the associated virtual extension.

GROUP No.	INTERCOM No.
00	B000, B100, B200 — B900
01	B001, B101, B201 — B901
≀	≀
24	B024, B124, B224 — B924

NOTE: *A maximum of 25 Dial Intercom groups are available per system. A maximum of ten D^{term}s can belong to a Dial Intercom group.*

(1) 000-255: Virtual LEN
[Series 3300 software or before]
0000-1019: Virtual LEN
[Series 3400 software or later]
(2) B000-B024
B100-B124
B200-B224
B300-B324
B400-B424
B500-B524
B600-B624
B700-B724
B800-B824
B900-B924
(Dial Intercom Number)

B X YY
X : 0-9: Intercom Code
YY: 00-24: Dial Intercom Group No.

CM12

Assign the Dial Intercom station.

- Y=03

(1) B000-B924: Dial Intercom No. assigned by CM11
(2) 07: Dial Intercom

CM56

Assign the My Line number to each Dial Intercom number.

- Y=12

(1) B000-B924: Dial Intercom No.
(2) X-XXXXXXXX: My Line No.

CM90

Assign the DIAL INTERCOM key to each D^{term}.

- Y=00

(1) My Line No. + [,] + key No.
(2) Dial Intercom No. of each D^{term}

A

	DESCRIPTION	DATA
A		
CM12	If the Private Dial Intercom is provided, assign Service Restriction Class A to each Dial Intercom number.	• Y=02 (1) B000-B924: Dial Intercom No. assigned by CM11 (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Restrict Executive Override in Service Restriction Class A assigned by CM12 Y=02.	• Y=09 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Restricted
CM08	Specify the Dial Intercom access capability when a called intercom station has set Do Not Disturb.	(1) 239 (2) 0 : Restricted 1◀: Allowed
END		

NOTE: *To activate the Voice Announcement call, refer to INTERNAL TONE/VOICE SIGNALING.* ☞ Page 420

INTERNAL TONE/VOICE SIGNALING

PROGRAMMING

START	DESCRIPTION	DATA
CM08	To activate the Single-Digit Feature Access Code feature, set the data for 050, 051, 069, 148 and 543 to "1".	(1) 050: * Button as Switch Hook Flash. (2) 1◀: Ineffective
		(1) 051: # Button as Switch Hook Flash. (2) 1◀: Ineffective
		(1) 069: Single Digit Dialing on BT Connection (2) 1◀: Step Call
		(1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective
		(1) 543: Step Call (2) 1◀: Allow
	Provide the system with the Single-Digit Feature Access Code on RBT or Voice Call connection.	(1) 156 (2) 0: Available
	Specify if Voice Call is provided when calling a D^{term} is set to Voice First from a Single-Line Telephone or a D^{term} without an LCD.	(1) 270 (2) 0 : Not provided (Busy Tone) 1◀: To provide
	Provide the system with the Single-Digit Feature Access Code on BT connection.	(1) 208 (2) 0: Available
	Specify whether the access codes of Single-Digit Feature Access Code feature are fixed or not. **[Series 3600 software required]**	(1) 570 (2) 0 : Programmable Access Code 1◀: Fixed Access Code
CM20	When using programmable access code (CM08>570 is set to 0), assign the Single-Digit Feature Access Code for the RBT connection. **[Series 3600 software required]**	• Y=5 (1) X: Access code (0-9, A (*), B (#)) (2) 1 : Internal Tone/Voice Signaling NONE◀: Single-Digit Feature Access Code is not available
A		

	DESCRIPTION	DATA
A		
CM12	Assign Service Restriction Class B for Voice Call (called side) to the required D^{term}.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Voice Call (called side) in Service Restriction Class B assigned by CM12 Y=02.	• Y=67 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CM12	Assign Service Restriction Class C for Voice Call Mike Off (called side) to the required D^{term}.	• Y=07 (1) X-XXXXXXXX: My Line No. (2) 00-15◀: Service Restriction Class C
CM15	Allow Voice Call Mike Off (called side) in Service Restriction Class C assigned by CM12 Y=07.	• Y=99 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0: Available
CM20	Assign the Voice Call/Ring Tone Programming access code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A163: Voice Call/Ring Tone Programming
END		

INTERNAL ZONE PAGING WITH MEET-ME

PROGRAMMING

To provide Internal Zone Paging with Meet-Me:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Internal Zone Paging to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Internal Zone Paging in Service Restriction Class A assigned by CM12 Y=02.	• Y=49 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign Internal Zone Paging access codes and Meet-Me answer codes, as required.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: 50-54, 55-59: Access code (2) A130-A137: Group 0-7 (Paging Access) A138-A145: Group 0-7 (Meet-Me Answer)
CM56	Assign the D^{term} into the required Internal Zone Paging Groups. **NOTE:** *A maximum of 8 internal zone paging is available. Up to 16 D^{term}s can be grouped per zone.*	• Y=00-07 Paging Group Number (1) 00-15: Serial No. in a Paging Group (2) X-XXXXXXXX: My Line No.
CM90	Assign Internal Zone Paging to each button on the D^{term}.	• Y=00 (1) X-XXXXXXXX: My Line No. + , + Key No. (2) F1270-F1277: Group 0-7
END		

To provide All Zone Internal Paging:

START	DESCRIPTION	DATA
CM08	Provide the system with All Zone Internal Paging.	(1) 158 (2) 1◀: Available
CM12	Assign Service Restriction Class A for All Zone Internal Paging to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow All Zone Internal Paging in Service Restriction Class A assigned by CM12 Y=02.	• Y=49 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign an All Zone Internal Paging access code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access code (1-4 digits) (2) A164: All Zone Internal Paging Access
CM56	Assign Group for Internal Zone Paging to the required D^{term}s. **NOTE:** *A maximum of 6 zones (0-5) internal paging groups are available. Up to 16 D^{term}s can be grouped per zone.*	• Y=00-05 Paging Group Number (1) 00-15: Serial No. in a Paging Group (2) X-XXXXXXXX: My Line No.
CM90	Assign an All Zone Internal Paging function key to a line button on the desired D^{term}s.	• Y=00 (1) X-XXXXXXXX: My Line No. + , + Key No. (2) F1278: All Zone Internal Paging
END		

LAST NUMBER REDIAL

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Last Number Redial.	(1) 177 (2) 0: Available
	Specify the capability for internal calls with this feature. If the data for CM08>178 is set to "0", this feature will only be applied to outgoing calls.	(1) 178 (2) 0 : Not available 1◀: Available
CM20	Assign the access code for Last Number Redial.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (**) (2) A069
CM90	Assign the Last Number Redial or Stack Dial feature access key to each D^{term}, as required. **NOTE**	• Y=00 (1) My Line No. + [,] +Key No. (2) F0069: Last Number Redial F1000: Stack Dial
	Assign the Last Number Redial/Stack Dial key to each DESKCON, as required. **NOTE**	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6121: Last Number Redial/Stack Dial
END		

NOTE: *Refer to the STACK DIAL for details on programming Stack Dial.* ☞ Page 610

LEAST COST ROUTING-3/6 DIGIT

PROGRAMMING

START

DESCRIPTION

DATA

CM20

Assign the access code for LCR Group 0-2.

- Y=0-3 Number Plan Group 0-3

(1) X-XXXX: Access Code

(2) A126: LCR Group 0
A127: LCR Group 1
A128: LCR Group 2

CM81

Assign the Toll Restriction Patterns with eight kinds of Trunk Restriction Classes assigned by CM12 Y=01.
Toll Restriction Pattern 00-15 are preassigned as shown below.
If a new Restriction Pattern is required, change the data for Restriction Pattern 01-13 (00, 14 and 15 are fixed).

- Y=01-13
  Toll Restriction Pattern No. 01-13

(1) 1-8: Trunk Restriction Class

(2) 0: Restricted
3: Allowed

TRUNK RESTRICTION CLASS		Y															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
		TOLL RESTRICTION PATTERN NUMBER ON EACH TRUNK RESTRICTION CLASS															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
1	RCA	3	0	3	3	3	0	0	0	3	3	3	3	3	0	3	0
2	RCB	3	0	3	3	0	0	0	0	3	3	0	0	0	0	3	0
3	RCC	3	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0
4	RCD	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
5	RCE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
6	RCF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
7	RCG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
8	RCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

0: Restricted
3: Allowed

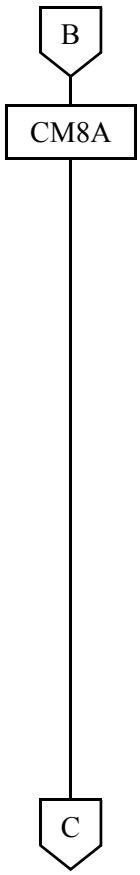
A

A

CM8A

DESCRIPTION	DATA
Assign an Area Code Development Pattern number to each LCR Group.	• Y=A000 (1) 0-2: LCR Group 0-2 (2) 4005-4007: Area Code Development Pattern No. 5-7
Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	• Y=4005-4007 Area Code Development Pattern No. 5-7 (1) X...X: Area Code, Maximum 8 digits (2) 0000-0255: Route Pattern No. 000-255
Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.	• Y=0000-0255 Route Pattern No. 000-255 (1) 1-4: Order of LCR Selection 1: 1st 2: 2nd 3: 3rd 4: 4th (2) XXX ZZ XXX: 000-255: LCR Pattern No. 000-255 ZZ : 00-63: Trunk Route No. 00-63
For area code deletion, designate the digits to be deleted. To delete all digits of the area code.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 152: Deletion of all digits of the area code assigned by CM8A Y=4005-4007 (2) 0: To delete
To delete the designated digit of an area code assigned by CM8A Y=4005-4007.	• Y=5000-5255 (1) 153: Designation of digit to be deleted for area code assigned by CM8A Y=4005-4007 (2) 00 : No digit deletion 01-10: First digit deleted -First 10 digits deleted CCC : No digit deletion

B



DESCRIPTION	DATA
For area code addition, designate the digits to be added.	• Y=5000-5255 (1) 100: Designation of digit Addition Pattern No. (2) 9000-9255: Digit Addition Pattern No. 000-255 CCC : No digit addition • Y=9000-9255 Digit Addition Pattern No. 000-255 (1) 0 (2) X-X...X: Digits to be added (Maximum 32 digits) X=0-9, A (*), B (#), C (Fixed Pause)
If three-digit Toll Restriction is provided, assign the Toll Restriction Pattern number to the LCR Pattern number.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 000 (2) 00-15: Toll Restriction Pattern No. specified by CM81

C

CM8A

DESCRIPTION	DATA

If six-digit Toll Restriction is provided, assign the following data to the LCR Pattern number and set up the six-digit Toll Restriction Pattern Tables.

(1) Specify the Trunk Restriction Classes to which 6-digit Toll Restriction applies.

Example: 412-211
Area Code / Office Code

RCA: No restrictions (three-digit TR)
RCB: 412-211 is allowed (six-digit TR)
RCC: 412-211 is allowed (six-digit TR)
RCD: 412 is restricted (three-digit TR)
RCE: 412 is restricted (three-digit TR)

CM8A		
Y	**TRUNK RESTRICTION CLASS**	**DATA**
5000	021	1
	022	0
	023	0
	024	1
	025	1

- Y=5000-5255
  LCR Pattern No. 000-255
(1) 021-028: Trunk Restriction Class assigned by CM12 Y=01
  021 : Unrestricted (RCA)
  022 : Non-Restricted 1 (RCB)
  023 : Non-Restricted 2 (RCC)
  024 : Semi-Restricted 1 (RCD)
  025 : Semi-Restricted 2 (RCE)
  026 : Restricted 1 (RCF)
  027 : Restricted 2 (RCG)
  028 : Fully-Restricted 2 (RCH)
(2) 0 : 6-digit Toll Restriction Pattern
  1◀: 3-digit Toll Restriction Pattern as per CM8A Y=5000-5255>000

(2) Assign the six-digit Toll Restriction Pattern number to the LCR Pattern number.

- Y=5000-5255
(1) 020
(2) 8000-8049: 6-digit Toll Restriction Pattern No. 00-49

(3) Assign the Office code (three-digits) and the availability to access the office code to the six-digit Toll Restriction Pattern number assigned by (2).

- Y=8000-8049
  6-digit Toll Restriction Pattern No. 00-49
(1) XXX: 3-digits of Office Code
(2) 0 : Restricted
  1◀: Allowed

D

	DESCRIPTION	DATA
D		
CM8A	If the prefix is to be added, assign the following data to the LCR Pattern number.	• Y=5000-5255 LCR Pattern No. 000-255
	(1) Assign the 6-digit Prefix Pattern number to the LCR Pattern number.	(1) 150 (2) 8050-8099: 6-digit Prefix Pattern No. 00-49 CCC : No Prefix
	(2) Assign the office code (three-digits) requiring the Prefix to the six-digit Prefix Pattern number.	• Y=8000-8049 (1) XXX: 3-digit of Office Code (2) 1◀: Allowed
CM85	Specify the maximum number of digits to be dialed by calling party. The maximum number of digits including the area codes should be assigned to each area code.	• Y=5-7 Area Code Development Pattern No. 5-7 assigned by CM8A Y=A000 (1) X-X...X: Area Code dialed, Maximum 8 digits (2) 01-24◀: 1 digit-24 digits 25-79 : 25 digits-79 digits
CM35	Provide the Toll Restriction feature to the required trunk routes.	• Y=11 (1) 00-63: Trunk Route No. (2) 0: To provide
	Specify route access capability for each restriction class.	• Y=51-58 (1) 00-63: Trunk Route No. (2) 0 : Restricted 1◀: Allow
	Assign the Area Code Development Pattern number for Toll Restriction and Maximum Digit Analysis to each trunk route.	• Y=76 (1) 00-63: Trunk Route No. (2) 05-07: Area Code Development Pattern No. 5-7
END		

To provide LCR with Time of Day Routing, add the following system data programming.

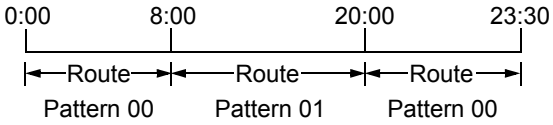
START	DESCRIPTION	DATA
CM8A	Assign the Date Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	• Y=4005-4007 Area Code Development Pattern No. 5-7 (1) X-X...X: Area Code Maximum 8 digits (2) 3000-3003: Date Pattern No. 0-3
	Assign the Time Pattern number to each day of the week for the Date Pattern number assigned by CM8A Y=4005-4007.	• Y=3000-3003 Date Pattern No. 0-3 (1) 0: SUN 1: MON 2: TUE 3: WED 4: THU 5: FRI 6: SAT (2) 2000-2007: Time Pattern No. 0-7
A		

A

CM8A

DESCRIPTION

Assign the Route Pattern number to the required time of day for the Time Pattern number assigned by CM8A Y=3000-3003.
To define the following Time Pattern:



DATA

- Y=2000-2007 Time Pattern No. 0-7

(1) HH MM (Time)
HH : 00-23: Hours
MM: 00/30: Minutes

(2) 0000-0255: Route Pattern No. 000-255
If Tenant Pattern is required, set 1000-1015 (Tenant Pattern No. 00-15).

Y	TIME (1)	ROUTE PATTERN (2)
2000 (Time Pattern No. 0)	0000 0030 0100 0130 0200 〜 0730 — 0:00 a.m.-8:00 a.m. 2000 2030 〜 2330 — 8:00 p.m.-0:00 a.m.	0000 (Route Pattern No. 000)
2000 (Time Pattern No. 0)	0800 0830 〜 1930 — 8:00 a.m.-8:00 p.m.	0001 (Route Pattern No. 001)

If the Tenant Pattern number is assigned by CM8A Y=2000-2007, assign the Route Pattern number to the required Tenant number for the Tenant Pattern number.

- Y=1000-1015 Tenant Pattern No. 00-15

(1) 00-63: Tenant No.

(2) 0000-0255: Route Pattern No. 000-255

END

To provide C.O. operator call with LCR, assign the following system data.

START

DESCRIPTION

DATA

CM20

Assign the access code for LCR Group 0.

- Y=0-3 Number Plan Group 0-3

(1) X-XXXX: Access Code
(2) A126: LCR Group

CM81

Assign the Toll Restriction Patterns with eight kinds of Trunk Restriction Classes assigned by CM12 Y=01. Toll Restriction Pattern 00-15 is already programmed as shown below. If a new Restriction Pattern is required, change the data of the Restriction Pattern 01-13 (00, 14 and 15 are fixed).

- Y=01-13 Toll Restriction Pattern No. 01-13

(1) 1-8: Trunk Restriction Class
(2) 0: Restricted
3: Allowed

TRUNK RESTRICTION CLASS		Y															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
		TOLL RESTRICTION PATTERN NUMBER ON EACH TRUNK RESTRICTION CLASS															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
1	RCA	3	0	3	3	3	0	0	0	3	3	3	3	3	0	3	0
2	RCB	3	0	3	3	0	0	0	0	3	3	0	0	0	0	3	0
3	RCC	3	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0
4	RCD	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
5	RCE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
6	RCF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
7	RCG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
8	RCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

0: Restricted
3: Allowed

CM8A

Assign the Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.

- Y=4010 Area Code for C.O. Operator

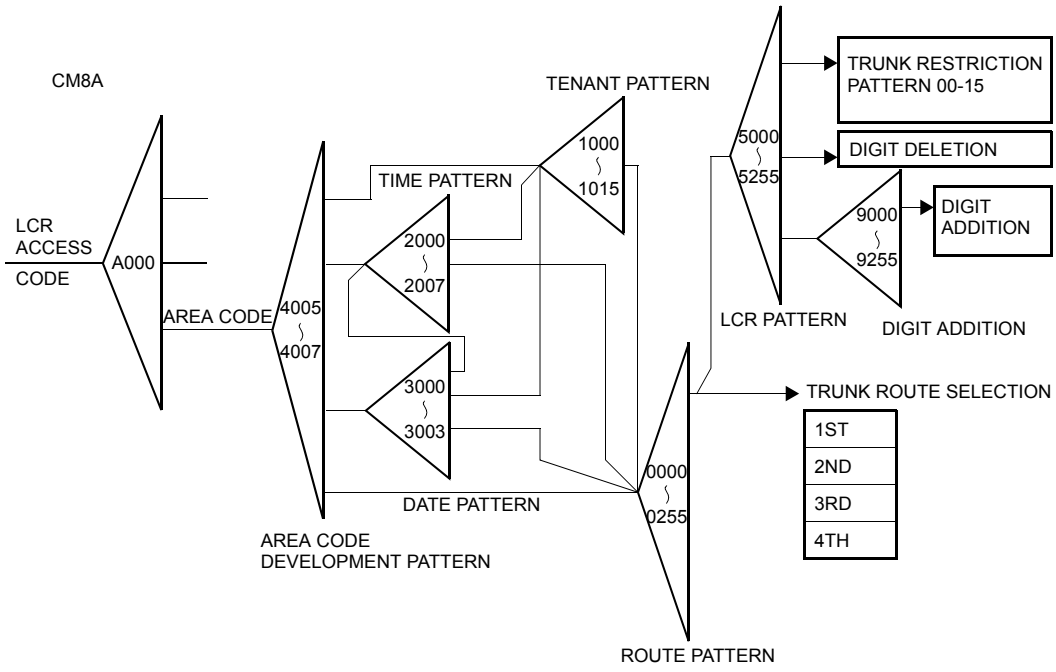
(1) X-XXX: Area Code for C.O. Operator
This data is only effective for an access code assigned to CM20>A126.
(2) 000-063: Route Pattern No. 00-63

A

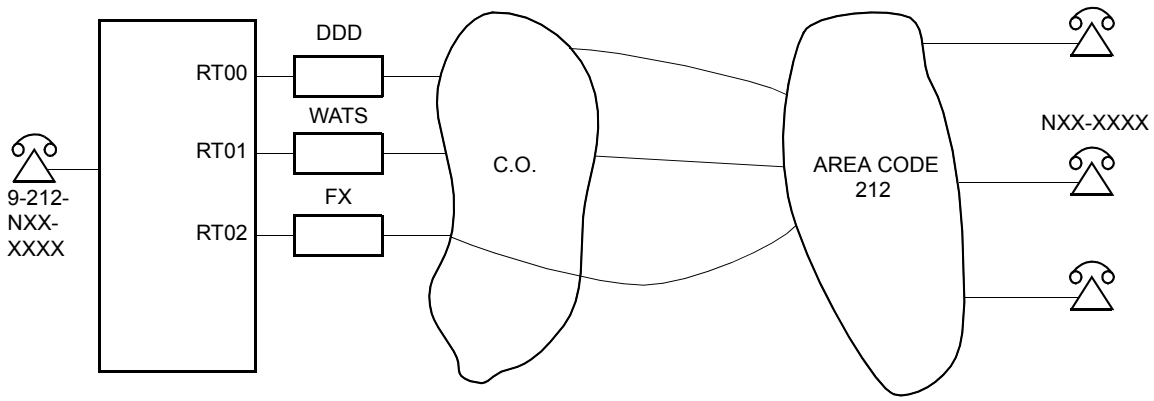
	DESCRIPTION	DATA
A		
CM8A	Assign the 1st order of LCR selection for the Route Pattern number assigned by CM8A Y=4010.	• Y=0000-0255 Route Pattern No. 000-255 (1) 1: 1st order of LCR selection (2) XXX ZZ XXX: 000-255: LCR Pattern No. ZZ : 00-63: Trunk Route No.
	Assign the Toll Restriction Pattern number to the LCR Pattern number assigned by CM8A Y=4010.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 000 (2) 00-13, 15: Toll Restriction Pattern No. specified by CM81
END		

NOTE: *See Examples in the following pages.*

LCR Development Sequence



Example 1:



Conditions:

(1) Order of LCR Selection:
1st... Route 02 (FX)
2nd...Route 01 (WATS)
3rd... Route 00 (DDD)

(2) Dialed Number:
9-212-NXX-XXXX

9 : Access Code
212 : Area Code
NXX : Office Code
XXXX: Telephone Number

(3) Toll Restriction Pattern:

–: **Allowed**
×: **Restricted**

CLASS / ROUTE	RCA	RCB	RCC	RCD	RCE
00	–	–	–	–	–
01	–	–	–	×	×
02	–	–	×	×	×

Programming for **Example 1:**

STEP1: Assign "9" to the access code of LCR Group 0 in Numbering Plan Group 0.
[ST] + 200 + [DE] + 9 + [DE] + A126 + [EXE]

STEP2: Assign Area Code Development Pattern No. 5 to LCR Group 0.
[ST] + 8AA000 + [DE] + 0 + [DE] + 4005 + [EXE]

STEP3: Assign Route Pattern No. 00 to area code (212) for Area code Development Pattern No. 5.
[ST] + 8A4005 + [DE] + 212 + [DE] + 0000 + [EXE]

STEP4: In Route Pattern No. 00, specify the order of LCR selection as shown below.
1st: Route 02 (FX)
[ST] + 8A0000 + [DE] + 1 + [DE] + 000 02 + [EXE]
LCR Pattern No. 000
2nd: Route 01 (WATS)
[ST] + 8A0000 + [DE] + 2 + [DE] + 001 01 + [EXE]
LCR Pattern No. 001
3rd: Route 00 (DDD)
[ST] + 8A0000 + [DE] + 3 + [DE] + 002 00 + [EXE]
LCR Pattern No. 002

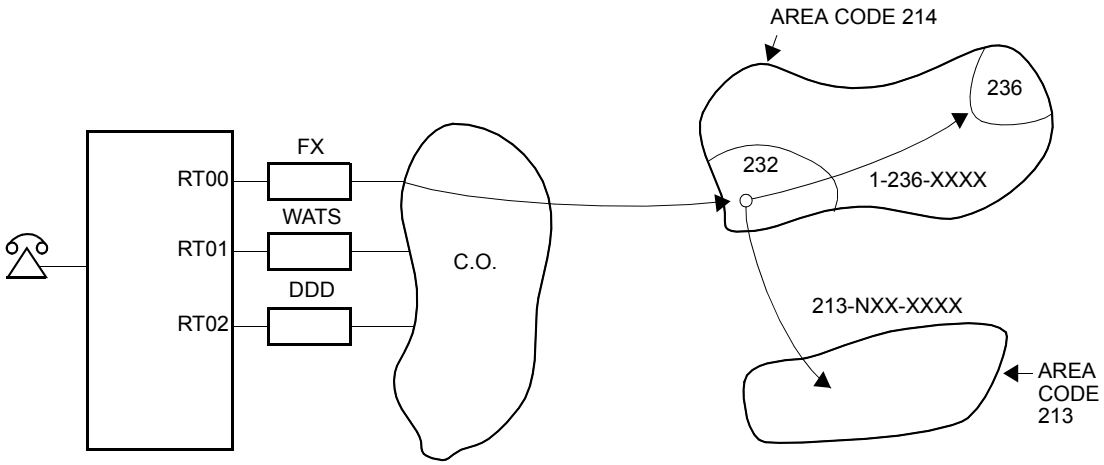
STEP5: In LCR Pattern No. 000 (for FX), delete the area code dialed.
[ST] + 8A5000 + [DE] + 151 + [DE] + 0 + [EXE]
LCR Pattern No. 000 — To delete

STEP6: Assign the Toll Restriction Pattern to each Route (LCR Pattern No.).
For LCR Pattern No. 000 (Route 02):
[ST] + 8A5000 + [DE] + 000 + [DE] + 10 + [EXE]
Toll Restriction Pattern No. specified by CM81
For LCR Pattern No. 001 (Route 01):
[ST] + 8A5001 + [DE] + 000 + [DE] + 09 + [EXE]

For LCR Pattern No. 002 (Route 00):
[ST] + 8A5002 + [DE] + 000 + [DE] + 01 + [EXE]

STEP7: Assign the maximum number of digits dialed.
[ST] + 855 + [DE] + 212 + [DE] + 10 + [EXE]
Area Code Development Pattern No. 5 — Area Code — 10 digits (including the area code)

Example 2:



Conditions:

(1) Order of LCR Selection:
1st... Route 02 (FX)
2nd...Route 01 (WATS)
3rd... Route 00 (DDD)

(2) Dialed Number:
- 9-214-232/236-XXXX

NOTE: *236 is a Toll Office.*

- 9-213-NXX-XXXX

(3) Toll Restriction Pattern:

–: Allowed
×: Restricted

ROUTE \ CLASS	RCA	RCB	RCC	RCD	RCE
00	–	–	–	–	–
01	–	–	–NOTE	×	×
02	–	–NOTE	×	×	×

NOTE: *Area Code 213 is restricted.*

Programming for **Example 2**:

STEP1: Assign "9" to the access code of LCR Group 0 in Numbering Plan Group 0.
[ST] + 200 + [DE] + 9 + [DE] + A126 + [EXE]

STEP2: Assign Area Code Development Pattern No. 5 to LCR Group 0.
[ST] + 8AA000 + [DE] + 0 + [DE] + 4005 + [EXE]

STEP3: Assign Route Pattern Nos. 00 and 01to area codes 214 and 213 respectively.
[ST] + 8A4005 + [DE] + 214 + [DE] + 0000 + [EXE]
└ Route Pattern No. 00

[ST] + 8A4005 + [DE] + 213 + [DE] + 0001 + [EXE]
└ Route Pattern No. 01

STEP4: Specify the order of LCR selection to each Route Pattern.
For Route Pattern 00:
1st: Route 00 (FX)
[ST] + 8A0000 + [DE] + 1 + [DE] + 000 00 + [EXE]
└LCR Pattern No. 000
2nd: Route 01 (WATS)
[ST] + 8A0000 + [DE] + 2 + [DE] + 001 01 + [EXE]
└LCR Pattern No. 001
3rd: Route 02 (DDD)
[ST] + 8A0000 + [DE] + 3 + [DE] + 002 02 + [EXE]
└LCR Pattern No. 002

For Route Pattern 01:
1st: Route 00 (FX)
[ST] + 8A0001 + [DE] + 1 + [DE] + 003 00 + [EXE]
└LCR Pattern No. 003
2nd: Route 01 (WATS)
[ST] + 8A0001 + [DE] + 2 + [DE] + 004 01 + [EXE]
└LCR Pattern No. 004
3rd: Route 02 (DDD)
[ST] + 8A0001 + [DE] + 3 + [DE] + 005 02 + [EXE]
└LCR Pattern No. 005

–: **Allowed**
×: **Restricted**

AREA CODE	ROUTE PATTERN No.	ORDER OF LCR	ROUTE	LCR PATTERN No.	TOLL RESTRICTION RCA	RCB	RCC	RCD	RCE
214	00	1st	00	000	–	–	–	–	–
		2nd	01	001	–	–	–	×	×
		3rd	02	002	–	–	×	×	×
213	01	1st	00	003	–	–	–	–	–
		2nd	01	004	–	–	×	×	×
		3rd	02	005	–	×	×	×	×

STEP5: In LCR Pattern Nos. 000 and 003, delete the area code dialed.

[ST] + 8A5000 + [DE] + 151 + [DE] + 0 + [EXE]
(8A5000: LCR Pattern No. 000; 0: To be deleted)

[ST] + 8A5003 + [DE] + 151 + [DE] + 0 + [EXE]
(8A5003: LCR Pattern No. 003; 0: To be deleted)

STEP6: Assign the Toll Restriction Pattern to each LCR Pattern No.

For LCR Pattern No. 000:

[ST] + 8A5000 + [DE] + 000 + [DE] + 01 + [EXE]
(8A5000: LCR Pattern No. 000; 01: Toll Restriction Pattern No. specified by CM81)

For LCR Pattern No. 001:

[ST] + 8A5001 + [DE] + 000 + [DE] + 03 + [EXE]

For LCR Pattern No. 002:

[ST] + 8A5002 + [DE] + 000 + [DE] + 04 + [EXE]

For LCR Pattern No. 003:

[ST] + 8A5003 + [DE] + 000 + [DE] + 01 + [EXE]

For LCR Pattern No. 004:

[ST] + 8A5004 + [DE] + 000 + [DE] + 04 + [EXE]

For LCR Pattern No. 005:

[ST] + 8A5005 + [DE] + 000 + [DE] + 05 + [EXE]

STEP7: In LCR Pattern No. 000, designate the prefix "1", in addition to the office code 236, by the six-digit Prefix Pattern.

- Designation of 6-digit Prefix Pattern No.
  [ST] + 8A5000 + [DE] + 150 + [DE] + 8050 + [EXE]
  8050 → 6-digit Prefix Pattern No. 00

- Designation of office code requiring Prefix Pattern.
  [ST] + 8A8000 + [DE] + 236 + [DE] + 1 + [EXE]
  8000 → 6-digit Prefix Pattern No. 00

STEP8: Assign the maximum number of digits dialed.
[ST] + 855 + [DE] + 21 + [DE] + 10 + [EXE]
855 → Area Code Development Pattern No. 5
21 → Area Code
10 → 10 digits

LINE LOCKOUT

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Howler Tone sent to locked-out stations, if required.	(1) 153 (2) 0 : Not sent 1◀: To send
	Assign the line lockout indication on the DSS Console.	(1) 274 (2) 0 : Available 1◀: Not available
CM13	When the Howler Tone is provided (CM08>153=1), assign Howler Tone sending to required stations.	• Y=04 (1) X-XXXXXXXX: Station No. (2) 1◀: To provide
CM41	Specify the timing for Lockout Alarm.	• Y=0 (1) 22 (2) 01-08: 4-32 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
CM42	Specify the number of stations in Line Lockout to give a MN Alarm.	(1) 01 (2) 01-99 : 1 station-99 stations NONE◀: No “Lockout Alarm Display”
END		

LINE PRESELECTION

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the operation of Line Preselection on a D^{term}.	(1) 199 (2) 0 : Only desired line key 1◀: Speaker key is required after pressing the desired line key
	Provide Group Feature Key on D^{term} with Line Preselection function, if required. **[Series 3500 software required]** **NOTE:** *This data is effective only when the second data of CM08>199 is set to 1.*	(1) 558 (2) 0 : To provide 1◀: Not provided
END		

MAINTENANCE ADMINISTRATION TERMINAL (MAT)

PROGRAMMING

To provide password service for the MAT:

START	DESCRIPTION	DATA
CME7	Specify the command codes accessible to each Password Level.	• Y=00: Password Level 0-6 • Y=01: Password Level 1-6 • Y=02: Password Level 2-6 • Y=03: Password Level 3-6 • Y=04: Password Level 4-6 • Y=05: Password Level 5-6 • Y=06: Password Level 6 • Y=10: Password Level 0 • Y=11: Password Level 1 • Y=12: Password Level 2 • Y=13: Password Level 3 • Y=14: Password Level 4 • Y=15: Password Level 5 • Y=16: Password Level 6 (1) 02-F8: Command Code exclusive of 03, E7, E9 (2) 0 : Allowed 1◀: Restricted
A		

	DESCRIPTION	DATA
A		
CME9	Assign the setting/changing of the password to be allowed.	(1) 8 (2) 0◀: Allowed 1 : Restricted
	Assign a password to each Password Level.	(1) 0-7: Password Level 0-7 (2) X-X...X: Maximum 8 digits Password CCC : Password clear A password for Password Level 7 should be assigned in advance because of providing the password service by Function No. 9 of CME9. The following passwords are not available. "CCCCCCCC" "FFFFFFFF" The setting/changing of the password is available only when the second data of CME9>8 is set to "0 (Allowed)". If CME9>8 is set to "1 (Restricted)", "DATA ERROR" is displayed when you set/change the password.
	Provide the system with Password Feature. After setting this data, access to system programming is only available with password entry.	(1) 9 (2) 0: Provided
END		

NOTE: *If the Password Service is provided, enter the predetermined password (assigned by CME9>0-7) by CM03 before programming from the MAT.*
[ST] + *03* + [DE] + *Password Level No. (0-7)* + [DE] + *Password* + [EXE]
– *"OK" will be displayed, if accepted.*
– *"DATA ERROR" will be displayed if the password is incorrect.*

HARDWARE REQUIRED

Refer to "MATWorX Installation Guide".

FAULT MESSAGE

PROGRAMMING

Refer to “Maintenance Manual”.

FAULT REPORT SCHEDULING

PROGRAMMING

Refer to “Maintenance Manual”.

PASSWORDS

PROGRAMMING

START	DESCRIPTION	DATA
CME7	Specify the command codes accessible to each Password Level.	• Y=00: Password Level 0-6 • Y=01: Password Level 1-6 • Y=02: Password Level 2-6 • Y=03: Password Level 3-6 • Y=04: Password Level 4-6 • Y=05: Password Level 5-6 • Y=06: Password Level 6 • Y=10: Password Level 0 • Y=11: Password Level 1 • Y=12: Password Level 2 • Y=13: Password Level 3 • Y=14: Password Level 4 • Y=15: Password Level 5 • Y=16: Password Level 6 (1) XX: 02-F8: Command Codes exclusive of 03, E7, E9 (2) 0 : Allowed 1◀: Restricted
A		

	DESCRIPTION	DATA
A		
CME9	Assign the setting/changing of the password to be allowed.	(1) 8 (2) 0◀: Allowed 1 : Restricted
	Assign a password to each Password Level.	(1) 0-7: Password Level 0-7 (2) X-X...X: Maximum 8 digits Password CCC : Password clear A password for Password Level 7 should be assigned in advance because of providing the password service by Function No. 9 of CME9. The following passwords are not available. “CCCCCCCC” “FFFFFFFF” The setting/changing of the password is available only when the second data of CME9>8 is set to “0 (Allowed)”. If CME9>8 is set to “1 (Restricted)”, “DATA ERROR” is displayed when you set/change the password.
	Provide the system with Password feature. After setting this data, access to system programming will be available with password entry.	(1) 9 (2) 0: Provided
END		

PEG COUNT

PROGRAMMING

Refer to “Command Manual”. (CMB0, CMB3)

REMOTE MAINTENANCE

PROGRAMMING

Refer to “Maintenance Manual”.

REMOVE AND RESTORE SERVICE

PROGRAMMING

START	DESCRIPTION	DATA
CME5	Set or cancel make-busy to stations and trunks.	• Y=0 (1) X-XXXXXXXX: Station No. (2) 0 : Make-busy set 1◀: Make-busy cancel • Y=1 (1) 000-255: Trunk No. (2) 0 : Make-busy set 1◀: Make-busy cancel
END		

STATION LINE STATUS DISPLAY

PROGRAMMING

Refer to “Maintenance Manual”.

STATION/TRUNK STATUS

PROGRAMMING

Refer to “Maintenance Manual”.

MESSAGE CENTER INTERFACE (MCI)

SYSTEM OUTLINE

The Message Center Interface (MCI) provides an interface with a customer supplied Voice Mail System (VMS) which can send Message Waiting lamp control data to the PBX.
The MCI can provide the following operations.

- Incoming call information is sent to the VMS when a call terminates to the VMS.
- Control of Message Waiting lamps is based on information sent from the VMS.

The MCI interface is a half duplex EIA-RS232C asynchronous data link that operates under a specific message protocol and format.
The PBX can provide two kinds of MCI. One is the RS-232C interface on the MP card, and the other is the RS-232C interface on the AP00 card.
The system outline of the MCI is shown below.

(1) MCI with MP
The Main Processor (MP) is required to make a data link with a customer supplied VMS and the analog line circuit (LC) to interface with the VMS.

- MP card:
  The MP stores call information for stations, and provides the RS-232C ports for a VMS.
  The MP keeps supervising the status of the VMS. If the VMS is not ready for information receiving (Busy Status), the MP temporarily stores the call information into its internal memory. The MP stores call information of a maximum of 15 calls.

- LC card:
  The LC is used for the VMS stations. The UCD or Station Hunting feature is usually provided with the VMS stations.

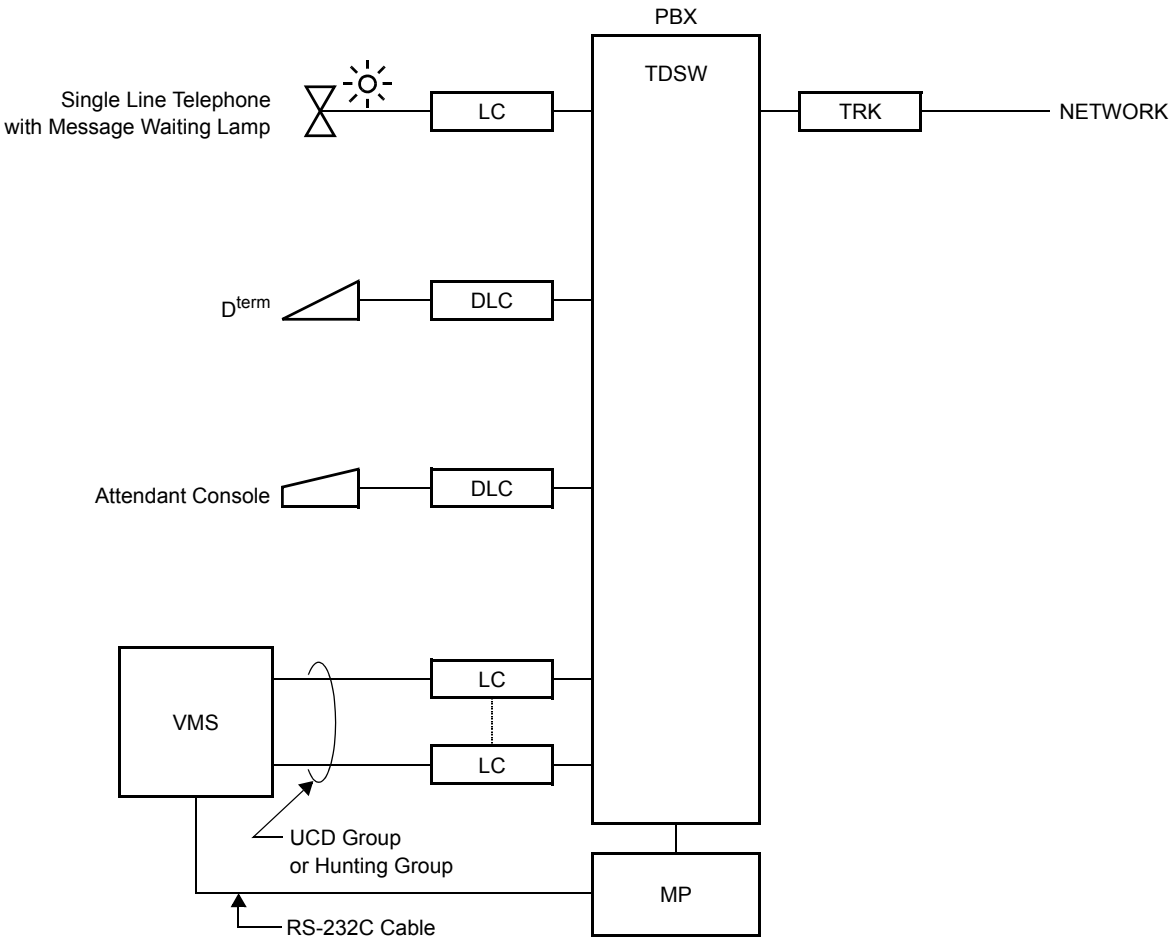
(2) MCI with AP00

The Application Processor (AP00) is required to make a data link with a customer supplied VMS and the analog line circuit (LC) to interface with the VMS.

- AP00 card:
  The AP00 stores call information for stations, and provides the RS-232C ports for a VMS.
  The AP00 keeps supervising the status of the VMS. If the VMS is not ready for information receiving (Busy Status), the AP00 temporarily stores the call information into its internal memory. The AP00 stores call information of a maximum of 16 calls.

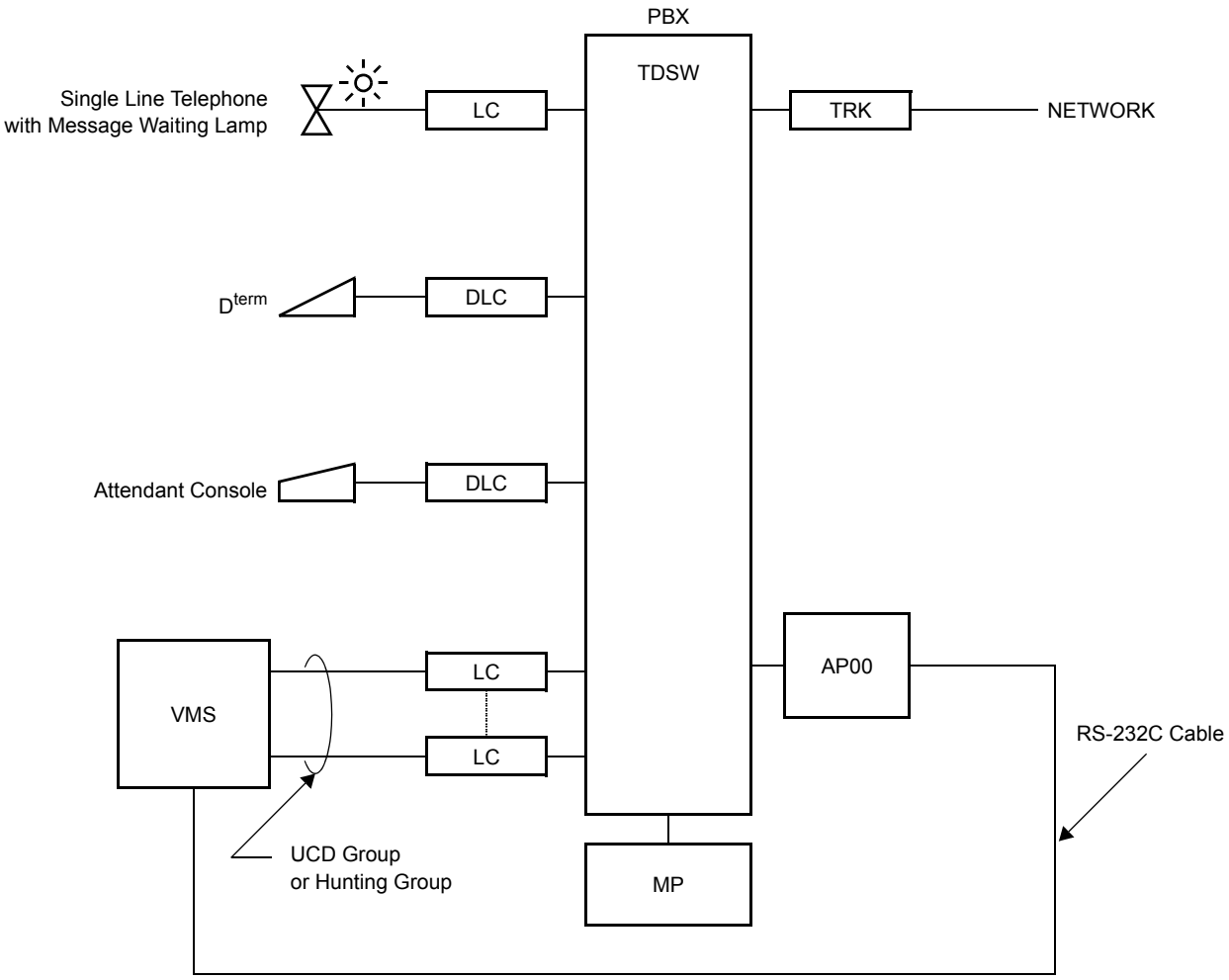
- LC card:
  The LC is used for the VMS stations. The UCD or Station Hunting feature is usually provided with the VMS stations.

System Outline of MCI with MP



DLC : Digital Line Circuit Card
LC : Analog Line Circuit Card
MP : Main Processor Card
TRK : COT, DTI, PRT, BRT Card
VMS : Voice Mail System
TDSW: Time Division Switch

System Outline of MCI with AP00



AP00 : MCI I/O Port Card
DLC : Digital Line Circuit Card
LC : Analog Line Circuit Card
MP : Main Processor Card
TRK : COT, DTI, PRT, BRT Card
VMS : Voice Mail System
TDSW: Time Division Switch

HARDWARE REQUIRED

(1) MCI with MP
MP card
LC card (for VMS station)
Single Line Telephone with MW lamp
8LC or 4LCD card
RS RVS-4S CA-A/RS RVS-15S CA-A or RS NORM-4S CA-A
Voice Mail System

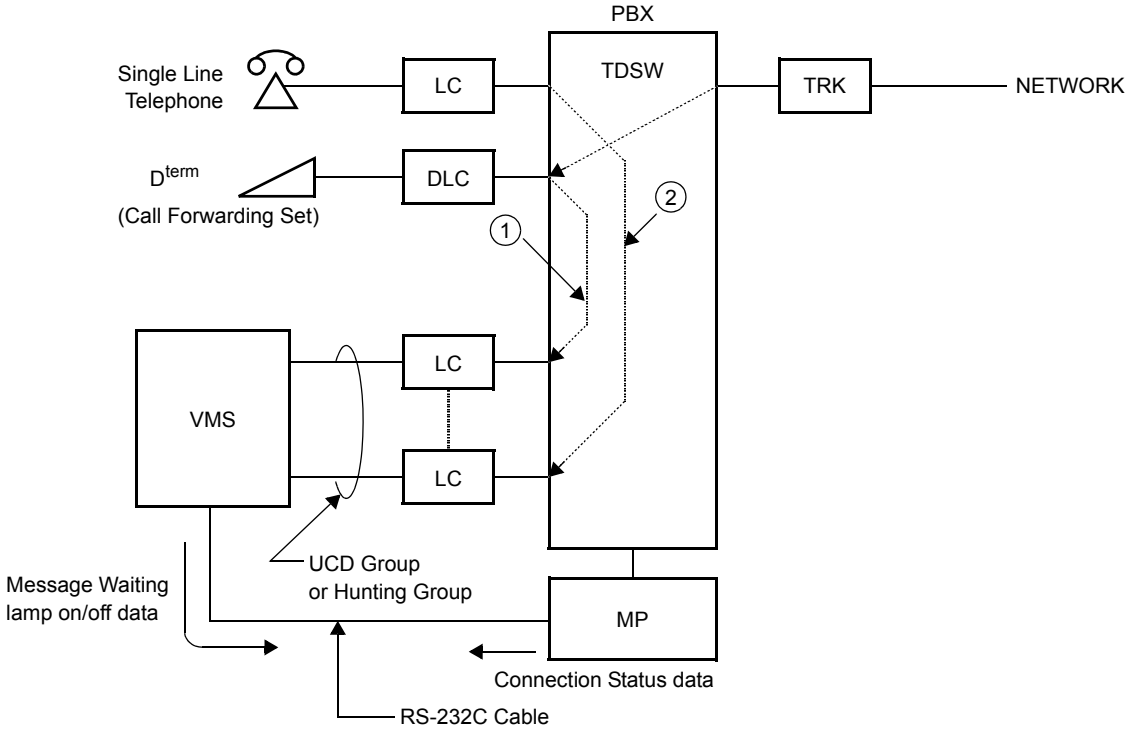
(2) MCI with AP00
AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
LC card (for VMS station)
Single Line Telephone with MW lamp
8LC or 4LCD card
RS RVS-4S CA-A/RS RVS-15S CA-A or RS NORM-4S CA-A
Voice Mail System

SYSTEM OPERATION

As shown below, a direct call or a forwarded call from a station/trunk/Attendant terminates to the VMS station in UCD group or Hunting group.

When the call is terminated to the VMS, the MP or the AP00 sends a call connection status information to the VMS through the MCI. If the ANI information is sent from the network, the ANI information can be added to the call connection status information by the system data programming (this feature is not available when the call is received from the CCIS trunk to the VMS). When the station/trunk/Attendant leaves a message in the VMS, the VMS sends a Message Waiting lamp ON data for the appropriate station through the PBX. After the station retrieves the messages, the VMS sends a Message Waiting lamp OFF data for the appropriate station through the PBX.

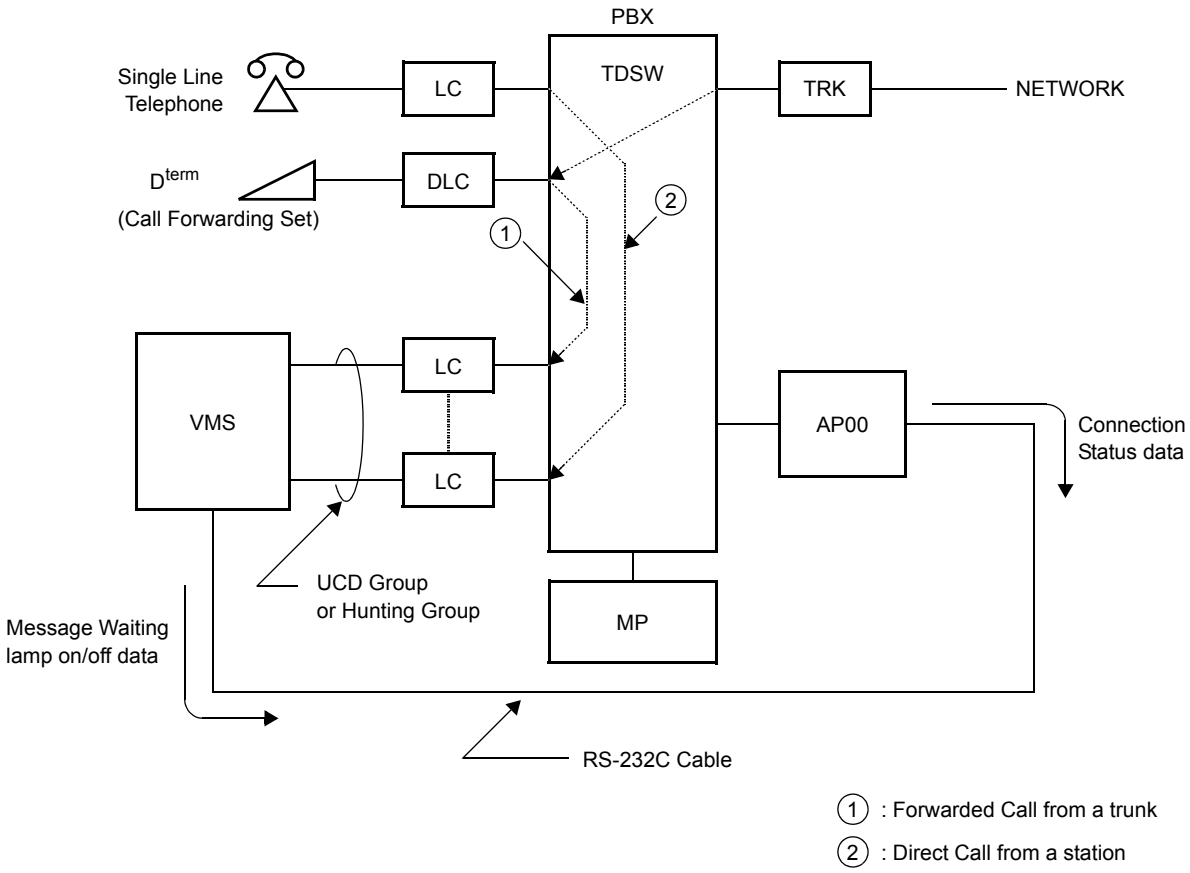
MCI System Operation (MCI with MP)



(1) : Forwarded Call from a trunk

(2) : Direct Call from a station

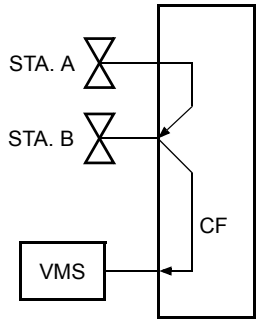
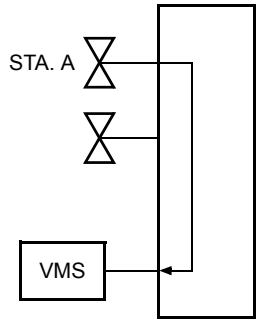
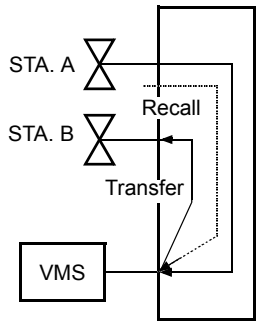
MCI System Operation (MCI with AP00)



The connecting patterns to the VMS are as shown in the following pages.

Connecting Patterns

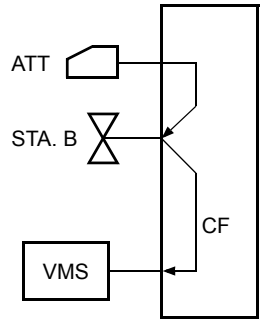
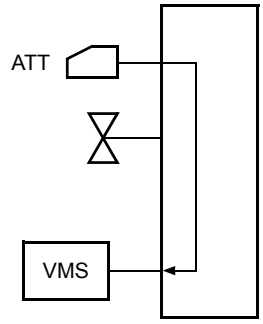
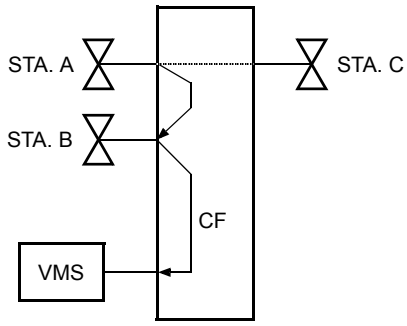
STA : Station
ATT : Attendant
TRK: Trunk

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
STA. A	STA. B	STA. A calls STA. B set Forwarding-All Calls/Busy Line/ No Answer to the VMS.	
STA. A	–	STA.A calls the VMS directly.	
STA. A	STA. B	After terminating a call from STA. A to the VMS and transferring the call to STA. B, STA. A recalls the VMS.	

Continued on next page

Connecting Patterns

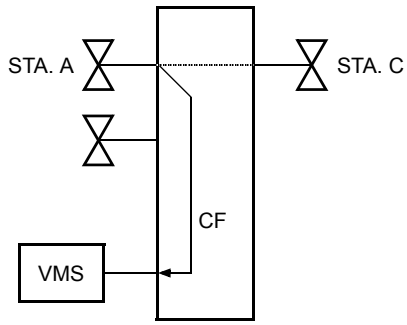
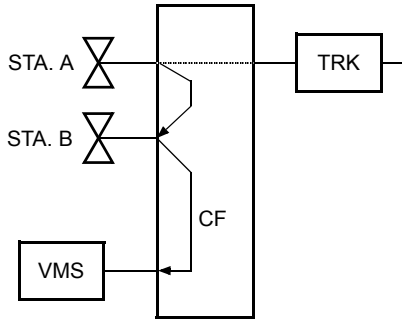
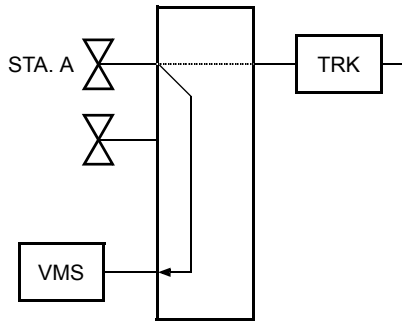
STA : Station
ATT : Attendant
TRK: Trunk

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
ATT	STA. B	ATT calls STA. B set Call Forwarding-All Calls/Busy Line/ No Answer to the VMS.	
ATT	–	ATT calls the VMS directly.	
STA. A	STA. B	After holding a call from STA. C, STA. A calls STA. B set Call Forwarding-All Calls/ Busy Line/No Answer to the VMS.	

Continued on next page

Connecting Patterns

STA : Station
ATT : Attendant
TRK: Trunk

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
STA. A	STA. C	After holding a call from STA. C, STA. A calls the VMS directly.	
STA. A	STA. B	After holding a call from TRK, STA. A calls STA. B set Call Forwarding-All Call/Busy Line/No Answer to the VMS.	
STA. A	TRK	After holding a call from TRK, STA. A calls the VMS directly.	

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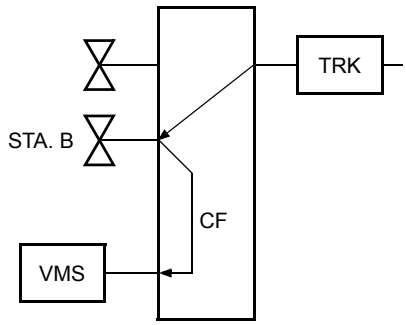
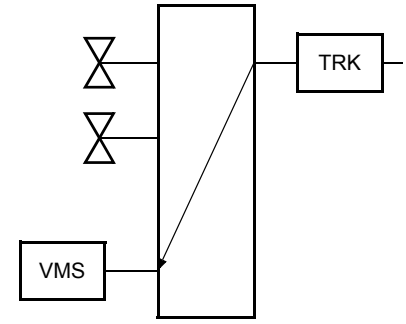
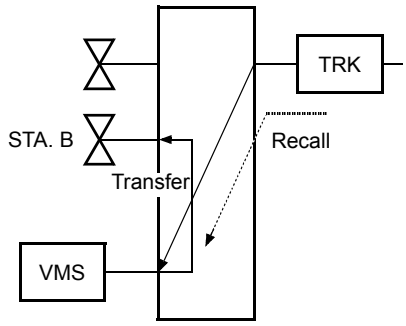
Connecting Patterns

STA : Station
ATT : Attendant
TRK: Trunk

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
TRK	STA. B	A TRK party calls STA. B set Call Forwarding-All Calls/ Busy Line/No Answer to the VMS.	
TRK	–	A TRK party calls the VMS directly.	
TRK	STA. B	After terminating a call from TRK to the VMS and transferring the call to STA. B, TRK recalls to the VMS.	

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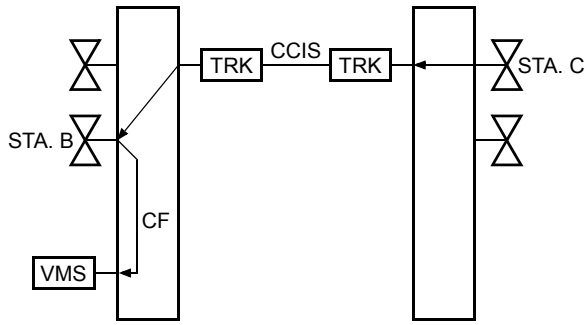
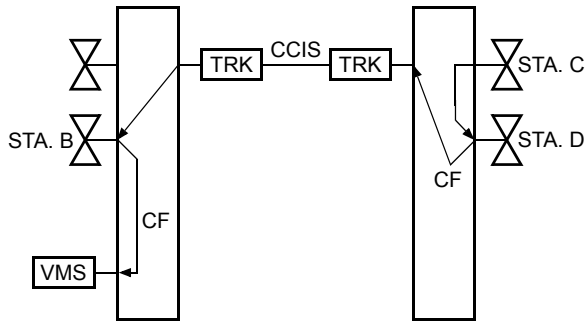
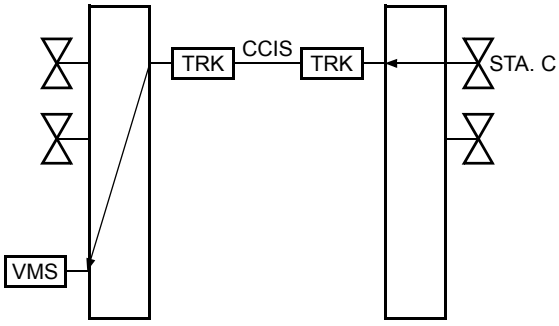
Connecting Patterns

STA : Station
ATT : Attendant
TRK: Trunk

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
STA. C	STA. B	In CCIS application, STA. C calls STA. B set Call Forwarding-All Calls/Busy Line/No Answer to the VMS.	
STA. C	STA. D	In CCIS application, STA. C calls STA. D set Call Forwarding-All Calls/Busy Line/No Answer to STA. B. (The call is forwarded to the VMS by the Multiple Call Forwarding).	
STA. C	–	In CCIS application, STA. C calls the VMS directly.	

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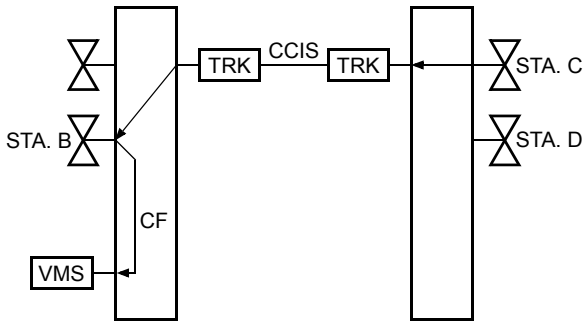
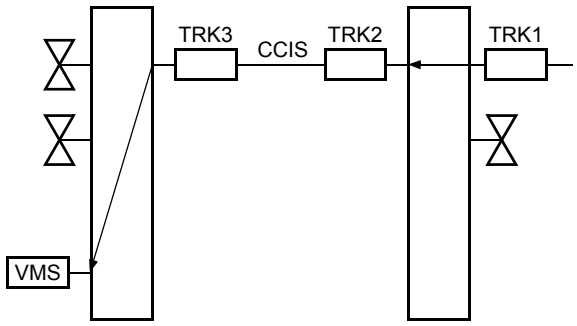
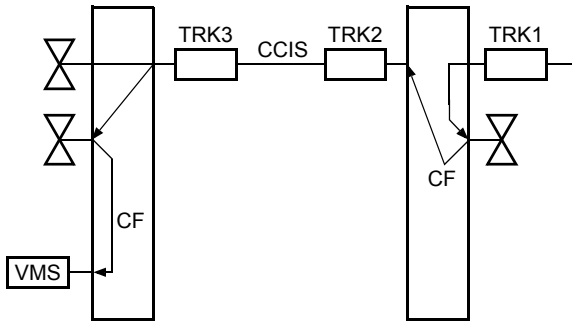
Connecting Patterns

STA : Station
ATT : Attendant
TRK: Trunk

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
STA. C	STA. B	In CCIS application, after holding a call from STA. D, STA. C calls STA.B set Call Forwarding-All Calls/Busy Line/No Answer to the VMS.	
TRK1	–	In CCIS application, a TRK1 party dials the VMS directly.	
TRK1	STA. D	In CCIS application, a TRK1 party calls STA. D set Call Forwarding-All Calls/Busy Line/ No Answer to STA. B. (The call is forwarded to the VMS by the Multiple Call Forwarding).	

When the PBX receives Message Waiting lamp control data from the VMS, the Message Waiting lamps of the called stations turn on or off. When the same Message Waiting lamp control data produces on D^{term}, the call indicator lamp on the D^{term} turns on and the "MSG" is displayed on the D^{term} as follows:

```
MSG
9:21 AM WED 8
```

PROGRAMMING

Precaution

Before programming the system data for MCI, confirm that the system is under the following status.

- The system is under On-Line mode ("RUN" lamp is flashing on the MP card).
- The AP00 card is mounted in the correct location (for MCI with AP00).
- All the system data pertaining to the station, trunks, and service features are already programmed.

Station Number Data Loading

The AP00 stores the station number data loaded from the MP. When station numbers have been added, deleted or changed by CM10, the station number data must be reloaded to the AP00 by the following procedure.

(1) Flip the MB switch of the AP00 to UP position.

(2) Return the MB switch to DOWN position.

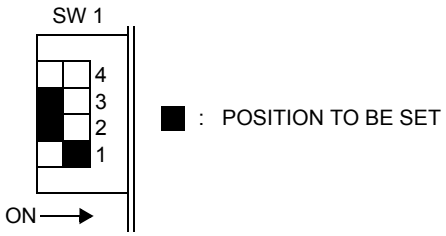
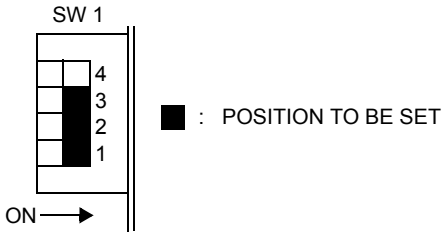
(3) The "**** AP00 START ****" message is printed if a printer is provided.

(4) The "SORT COMPLETE" message is printed when the station number has been sent to the AP00.

AP Initialization (PN-AP00-B with AP00 program)

NOTE: *For MCI with MP, this programming is not required.*

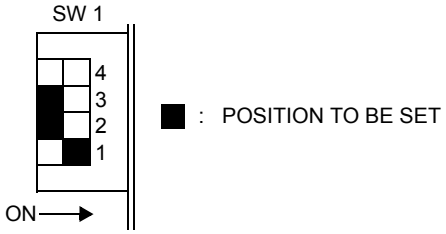
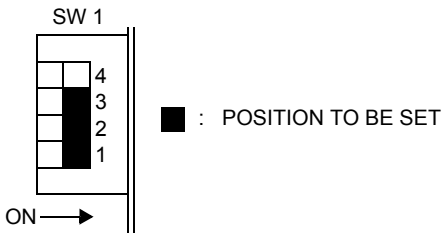
This section explains the data assignment to make the AP active.
You can skip the data assignment explained on this section, if one of the following AP related features has been activated; Station Message Detail Recording (SMDR), Message Center Interface (MCI), Property Management System (PMS), or Hotel printer. You can distinguish whether the AP is active or not by the RUN lamp indication. The RUN lamp flashes on green color when the AP is in active.
When you install the AP00 the first time, you should assign the data shown below.

START	DESCRIPTION	DATA
CM05	Assign an AP number to the AP00 card. The AP number must match the SENSE switch setting on the AP00 card. (INITIAL) On the AP00 card, set SW1 switch as shown below. 	• Y=0 (1) 04-15, 20-31: AP No. (2) 04: AP00 card SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
CMD101	Load the initial data into the AP00 card. (AP OFF LINE) On the AP00 card, set the SW1 switch as shown below. 	(1) 0000 (2) CCC SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
END		

AP Initialization (PN-AP00-B/PN-AP00-D with MRCA program) [Series 3300 software required]

NOTE: *For MCI with MP, this programming is not required.*

This section explains the data assignment to make the AP active.
You can skip the data assignment explained on this section, if one of the following AP related features has been activated; Station Message Detail Recording (SMDR) with NEAX 2400 IMS Format, Message Center Interface (MCI) or Do Not Disturb group set/cancel at specified timing in advance. You can distinguish whether the AP is active or not by the RUN lamp indication. The RUN lamp flashes on green color when the AP is in active.
When you install the AP00 the first time, you should assign the data shown below.

START	DESCRIPTION	DATA
CM05	Assign an AP number to the AP00 card. The AP number must match the SENSE switch setting on the AP00 card. (INITIAL) On the AP00 card, set SW1 switch as shown below.  	• Y=0 (1) 04-15, 20-31: AP No. (2) 45: PN-AP00-B/PN-AP00-D card with MRCA program SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
CMDD99	Load the initial data into the AP00 card. (AP OFF LINE) On the AP00 card, set the SW1 switch as shown below.  	(1) 0000 (2) CCC SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
END		

MCI Programming

After AP Initialization, do the following programming.
Call Forwarding to the VMS stations, and UCD Group/Station Hunting Group set to the VMS stations are required. For these feature programming, refer to each feature in this manual.

START	DESCRIPTION	DATA
CM08	Specify the type of VMS which is accommodated to the system. **NOTE:** *For VMS with MCI, set the 2nd data "0".*	(1) 443 (2) 0 : Depends on CM12 Y=25 1◀: VMS with DTMF
CM12	Specify the type of the VMS Station. **NOTE:** *CM12 Y=25 is effective only when CM08>443 is set to "0".*	• Y=25 (1) X-XXXXXXXX: Station No. (VMS station) (2) 0 : VMS with DTMF 3◀: VMS with MCI
CM08	Specify MSG display on the D^{term}.	(1) 025 (2) 0 : MSG (only) 1◀: MSG X (X: Number of message)
	Specify Message Waiting control from VMS with MCI to all stations. **NOTE:** *MW lamp control is only available to the stations in the opposite PBX connected with CCIS via MCI. Station dialing MW access codes are not allowed over CCIS.*	(1) 444 (2) 0 : Available 1◀: Not available
	Specify whether Message Waiting from the VMS is provided for the called station when a forwarded call is terminated to the VMS via CCIS.	(1) 376 (2) 0 : To provide 1◀: Not provided
A		

A

	DESCRIPTION	DATA
CM13	Provide Message Waiting for a station with MW lamp.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 0: To provide
	Provide VMS service for a station port interface with the VMS (VMS station).	• Y=10 (1) X-XXXXXXXX: Station No. (VMS station) (2) 0: To provide
	Provide Momentary Open for a station port interface with the VMS (VMS station), as required.	• Y=22 (1) X-XXXXXXXX: Station No. (VMS station) (2) 0: To provide
CM90	Assign the data to provide the MW lamp on a D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1005
CM65	Assign the calling party number sent to MCI when accessing VMS from a sub line assigned on D^{term}.	• Y=34 (1) 00-63: Tenant No. (2) 0 : Sub Line station No. 1◀: My Line station No.
CM04	Assign the connection port for MCI.	• Y=01 (1) 01: Connection port for MCI (2) 0 : RS0 on MP 1 : RS1 on MP 2 : PN-AP00-B with MRCA program **[Series 3300 software required]** : PN-AP00-D with MRCA program 7◀: PN-AP00-B with AP00 program

B

For MCI with MP
☞ Page 466

D

For MCI with AP00 (PN-AP00-B with AP00 program)
☞ Page 468

F

For MCI with AP00 (PN-AP00-B/PN-AP00-D with MRCA program)
☞ Page 470

- For MCI with MP

B

	DESCRIPTION	DATA
CM08	Assign the number of digits for station number in MCI message format sent to the VMS from the MP RS-232C port.	(1) 708 (2) 0 : 6 digits 1◀: 8 digits
CM40	Assign the function of RS-232C ports. **NOTE:** *When a port is used for MCI exclusively, assign the 2nd data=10. When a port is used for both MCI and Built-in SMDR, assign the 2nd data=11.*	• Y=00 (1) 0: Port 0 1: Port 1 (2) 10: MCI **NOTE** 11: MCI and Built-in SMDR **NOTE**
	Assign the attribute data, depending on the VMS.	• Y=01-06, 08 (1) See the following table. (2) See the following table.

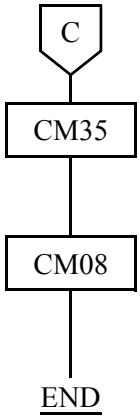
◀: Initial Data

Y		1st DATA		2nd DATA	
No.	MEANING	DATA	PORT LOCATION No.	DATA	MEANING
01	Data length	0 1	Port 0 Port 1	0 1◀	7 bit 8 bit
02	Parity check	0 1	Port 0 Port 1	0 1◀	Effective Ineffective
03	Kind of parity	0 1	Port 0 Port 1	0 1◀	Even parity Odd parity
04	Stop bit	0 1	Port 0 Port 1	0 1◀	1-Stop bit 2-Stop bit
05	DTR signal sent to terminal	0 1	Port 0 Port 1	0 1◀	Low High
06	RTS signal sent to terminal	0 1	Port 0 Port 1	0 1◀	Low High
08	Data speed	0 1	Port 0 Port 1	1 2 3 4 5 NONE◀	1200 bps 2400 bps 4800 bps 9600 bps 19200 bps 9600 bps

NOTE: *The data should be assigned depending on the attribute of the VMS.*

C

To add Automatic Number Identification (ANI) information to the MCI message format when the ANI information is sent from the network, do the following programming.



DESCRIPTION	DATA
Provide sending of ANI information from network to the VMS with MCI.	• Y=138 (1) 00-63: Trunk Route No. (2) 0: To send
For MCI with MP, specify the MCI message format sent to the VMS from the MP RS-232C port as Format with ANI.	(1) 709 (2) 0: Format with ANI

- For MCI with AP00 (PN-AP00-B with AP00 program)

D

	DESCRIPTION	DATA
CMD000	Specify whether the text (Message Waiting control text sending is available) is sent to the VMS when the AP00 card is reset.	(1) 136 (2) 0◀: To send 1 : Not sent
	Specify the number of digits for station number in the message format to communicate with the VMS.	(1) 137 (2) 0◀: 6 digits 1 : 8 digits
CMD001	Assign the attribute data, depending on the port (Port 0-3) connected to the VMS. (AP00 INITIAL)	(1) See the following table. (2) See the following table.

FIRST DATA (1)				MEANING	SECOND DATA (2)	MEANING
PORT 0	PORT 1	PORT 2	PORT 3			
20	24	28	32	Data speed	2/3/4/5 **NOTE 1**	1200/2400/4800/9600 bps **NOTE 2**
21	25	29	33	Stop bit length	0◀/1/2	1/1.5/2 bits **NOTE 2**
22	26	30	34	Data length	0◀/1	7/8 bits **NOTE 2**
23	27	31	35	Parity	0◀/1/2	None Parity/Even Parity/Odd Parity **NOTE 2**
80	100	120	140	Equipment Type	24	MCI
81	101	121	141	Priority for data processing	0◀	1st Priority
85	105	125	145	Station Address (SA)	48	0
86	106	126	146	Unit Address (UA)	33	!
89	109	129	149	Timer for detecting the end of block	5	512 ms.
98	118	138	158	Guard timer between texts	0◀ 1 2 3 4	0-128 ms. 128-256 ms. 256-384 ms. 384-512 ms. 512-640 ms. **NOTE 3**

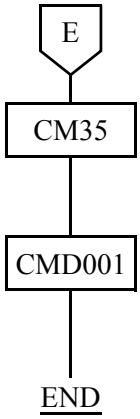
NOTE 1: *For the Port 1 and Port 3, data speed 9600 bps cannot be set.*

NOTE 2: *This data should be assigned depending on the attribute of the VMS.*

NOTE 3: *To send the text to the VMS successively, assign the guard timer.*

E

To add Automatic Number Identification (ANI) information to the MCI message format when the ANI information is sent from the network, do the following programming.



DESCRIPTION	DATA
Provide sending of ANI information from network to the VMS with MCI.	• Y=138 (1) 00-63: Trunk Route No. (2) 0: To send
For MCI with AP00, specify the message format sent to the VMS with MCI as Format with ANI.	(1) 36 (2) 1: Format with ANI

- For MCI with AP00 (PN-AP00-B/PN-AP00-D with MRCA program)
  [Series 3300 software required]

F

	DESCRIPTION	DATA
CMDD01	Set interface condition for PN-AP00-B/ PN-AP00-D with MRCA program RS port. (AP00 INITIAL) When you set CMDD01, the following initial data is set to specified port as the interface condition. • Data Speed: 9600 bps • Stop Bit Length: 2 bits • Data Length: 7 bits • Parity: No Parity • Station Address (SA): 0 • Unit Address (UA): ! • Send the text to the VMS when the AP00 card is reset. • 6-digit station number in the message format to communicate with the VMS/Format without ANI • Timer for detecting the end of block: 1 second • Guard timer between text: 512-640 ms.	(1) 100 (Port 0) 101 (Port 1) 102 (Port 2) 103 (Port 3) (2) 10: MCI
CMDD10	To change the interface condition of each port set by CMDD01, assign the attribute data, according to the VMS. (AP00 INITIAL)	(1) X01: Data Speed for Port 0-3 X: 0-3: Port 0-3 (2) 1 : 300 bps 2 : 1200 bps 3 : 2400 bps 4 : 4800 bps 5◀: 9600 bps 6 : 19200 bps (1) X02: Stop Bit Length for Port 0-3 X: 0-3: Port 0-3 (2) 0 : 1 bit 1 : 1.5 bits 2◀: 2 bits

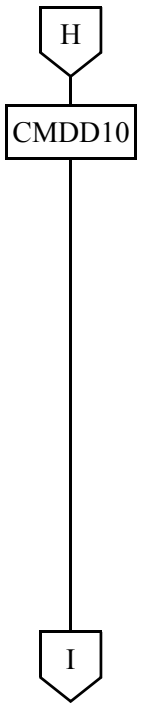
G

G

CMDD10

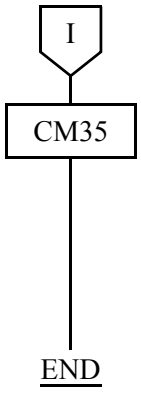
H

DESCRIPTION	DATA
	(1) X03: Data Length for Port 0-3 X: 0-3: Port 0-3 (2) 0◀: 7 bits 1 : 8 bits
	(1) X04: Parity for Port 0-3 X: 0-3: Port 0-3 (2) 0◀: No Parity 1 : Even Parity 2 : Odd Parity
	(1) X05: Station Address (SA) for Port 0-3 X: 0-3: Port 0-3 (2) 48◀: 0
	(1) X06: Unit Address (UA) for Port 0-3 X: 0-3: Port 0-3 (2) 32 : Space (No information) 33◀: !
	(1) X07: Sending the text (Message Waiting control text sending is available) to the VMS when the AP00 card is reset X: 0-3: Port 0-3 (2) 0◀: To send 1 : Not sent
	(1) X08: Number of digits for station number in the message format to communicate with the VMS X: 0-3: Port 0-3 (2) 0◀: 6 digit 1 : 8 digit



DESCRIPTION	DATA
	(1) X09: Message Format for Port 0-3 X: 0-3: Port 0-3 (2) 0◀: Format without ANI 1 : Format with ANI
NOTE: *To send the text to the VMS successively, assign the guard timer.*	(1) X17: Guard Timer between texts for Port 0-3 X: 0-3: Port 0-3 (2) 0 : No Timer control 1 : 0-128 ms. 2 : 128-256 ms. 3 : 256-384 ms. 4 : 384-512 ms. 5◀: 512-640 ms.

To add Automatic Number Identification (ANI) information to the MCI message format when the ANI information is sent from the network, do the following programming.



DESCRIPTION	DATA
Provide sending of ANI information from network to the VMS with MCI.	• Y=138 (1) 00-63: Trunk Route No. (2) 0: To send
NOTE: *To provide ANI information, be sure to set CMDD10>X09 2nd data is set as Format with ANI.*	

MESSAGE REMINDER

PROGRAMMING

To provide Message Reminder service for each station:

START	DESCRIPTION	DATA
CM08	Select MSG Display on D^{term}.	(1) 025 (2) 0 : MSG (only) 1◀: MSGX (X: No. of messages)
	To activate Single-Digit Feature Access Code (1, 2, 3 and 6) feature, set the data for 050, 051, 069 and 148 to "1". **NOTE:** *A single digit access code "6" is fixedly assigned to set Message Reminder.*	(1) 050: * Button as Switch Hook-Flash (2) 1◀: Ineffective (1) 051: # Button as Switch Hook Flash (2) 1◀: Ineffective (1) 069: Single-Digit Dialing on BT Connection (2) 1◀: Step Call (1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective
	Provide the system with Single-Digit Feature Access Code on RBT or Voice Call Connection.	(1) 156 (2) 0: Available
	Provide the system with Single-Digit Feature Access Code on busy Connection.	(1) 208 (2) 0: Available
	Provide the system with the automatic cancel of Message Reminder while the called station rings.	(1) 234 (2) 0 : Available 1◀: Not available
	Specify the Automatic Cancel of Message Reminder when the desired station answers.	(1) 235 (2) 0 : Available 1◀: Not available
	Specify the sending of Special Dial Tone for Attendant Console or station when dialing a feature access code.	(1) 236 (2) 0 : Tone is not sent 1◀: Tone is sent
A		

	DESCRIPTION	DATA
A		
CM08	Specify the time display for Message Reminder on D^{term} with LCD.	(1) 280 (2) 0 : 24-Hour 1◀: 12-Hour
	Specify Message Waiting Lamp indication on the station to which Message Reminder is set.	(1) 294 (2) 0 : Flashing (60 IPM) 1◀: Steady Lighting
CM13	Provide Message Reminder for each station.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 0 : To provide (for stations with MW lamp or D^{term} with LCD) 1◀: Not Provided
CM12	Assign Service Restriction Class A for Message Reminder to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Message Reminder in Service Restriction Class A assigned by CM12 Y=02.	• Y=47 Message Reminder (Setting Side) • Y=48 Message Reminder (Set Side) (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Message Reminder Search, Retrieve, Set, or Cancel.	• Y=0-3 Numbering Plan Group (0-3) (1) X-XXXX: Access Code (*9, #9) (2) A146: Message Reminder Search A147: Message Reminder Retrieve A148: Message Reminder Set A149: Message Reminder Cancel
CM90	Assign the MSG key to each D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0A46: Message Reminder Search F1005 : Message Reminder Retrieve
END		

To provide CID Call Back, add the following programming:

START	DESCRIPTION	DATA
CM15	Allow CID Call Back in Service Restriction Class A assigned by CM12 Y=02.	• Y=126 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 1◀: Restricted
CM35	Provide the trunk route with the CID Call Back.	• Y=150 (1) 00-63: Trunk Route No. (2) 0 : To provide 1◀: Not Provided
CM12	Assign the number of memory block which is used for CID Call Back for each D^{term} station.	• Y=38 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A XXXX ZZ XXXX : 0000-1016: Start Block No. ZZ : Number of Memory Block for CID Call Back 01: 8 blocks 02: 16 blocks 03: 24 blocks NONE◀: 4 blocks
END		

To display the date when searching a message set by Message Reminder from D^{term}, do the following programming:

[Series 3800 software required]

START	DESCRIPTION	DATA
CM08	Provide the date display when searching a message set by Message Reminder from D^{term}. **NOTE:** *When this command is set to 0, the time is displayed by 24-Hour, although CM08>280 is set to 1.*	(1) 582 (2) 0: To provide
END		

To store the calling number automatically when the station call via CCIS is abandoned, do the following programming:

[Series 3800 software required]

START	DESCRIPTION	DATA
CM08	Assign the data so as to store the calling number automatically when the station call via CCIS is abandoned.	(1) 583 (2) 0: To store
CM35	Assign the Pattern number for adding an access code for outgoing call to the calling number stored by Message Reminder when terminating a tandem call via CCIS.	• Y=279 (1) 00-63: Trunk Route No. (2) 0-7 : Pattern No. 0-7 NONE◀: No data
	Provide the trunk route with the CID Call Back.	• Y=150 (1) 00-63: Trunk Route No. (2) 0: To provide
CM50	Assign the Pattern number for adding an access code for outgoing call to the calling number stored by Message Reminder when terminating a tandem call via CCIS.	• Y=11 (1) 0-7: Pattern No. 0-7 assigned by CM35 Y=279 (2) X-XXXXXX: Access Code for outgoing call X: 0-9, A (*), B (#)
END		

HARDWARE REQUIRED

Single-Line Telephone with MW Lamp
8LC or 4LCD card

MESSAGE WAITING

PROGRAMMING

Refer to the DSS/BLF Console feature to program the DSS/BLF as a Message Front Station.

START

CM12

Assign Service Restriction Class A for Message Waiting to required stations as shown below.

- Y=02
(1) X-XXXXXXXX: Station No.
(2) XX ZZ
XX: 00-15◀: Service Restriction Class A

CM15

Allow Message Waiting in Service Restriction Class A assigned by CM12 Y=02.

STATION/ADMINISTRATIVE	CM15 Y=24	CM15 Y=40
Station w/o MW Lamp	0	0
Station with MW Lamp	0	1
Administrative station	1	0

- Y=24 Administrative station allowing Message Waiting Set/Reset to station
- Y=40 Station setting MW
(1) 00-15: Service Restriction Class A
(2) 0 : Restricted
1◀: Allow

CM13

Provide each station with Message Waiting. (D^{term} or Single-Line Telephone with Message Waiting Lamp)

- Y=03
(1) X-XXXXXXXX: Station No.
(2) 0: To provide

CM20

Assign an Access Code for Message Waiting Set/Reset/Retrieve.

- Y=0-3 Numbering Plan Group 0-3
(1) X-XXXX: Access Code
(2) A040: MW Lamp Control Set
A041: MW Lamp Control Reset
A147: MW Retrieve

CM51

Assign the Message Front destination of the MW retrieve call from the station to which Message Waiting is set.
By pressing MW Retrieve access code or MW key on D^{term}, the call is routed to the destination.

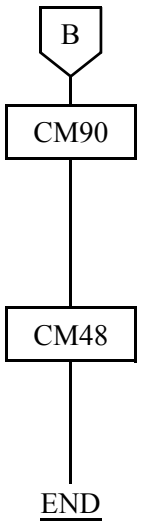
- Y=15
(1) 00-63: Tenant No. to which MW set D^{term} belongs
(2) X-XXXXXXXX: Message Front Station No./My Line No.
E000 : Attendant Console

A

A

	DESCRIPTION	DATA
CM08	Assign the Lamp color on D^{term} when Message Waiting is set.	(1) 144 (2) 0 : Green 1◀: Red
	Specify the Message Lamp Indication Pattern on D^{term}.	(1) 294 (2) 0 : Flashing (60 IPM) 1◀: Steady Lighting
	If an Attendant Console is assigned as the Message Front destination by CM51 Y=15, set the data for 233 to 0. With this setting, Message Waiting is automatically reset when the attendant answers.	(1) 233 (2) 0: Available
	To reset Message Waiting indication while the Message Front station or attendant rings, set the data for 234 to 0.	(1) 234 (2) 0: Available
	To reset Message Waiting indication when the desired station answers a second call from the Message Front station or attendant, set the data for 235 to 0.	(1) 235 (2) 0: Available
CM90	Assign the Message Waiting function key to required D^{term} and the administrative stations.	• Y=00 (1) My Line No. + [,] + Key No. (2) For administrative station F0040: Message Waiting Set F0041: Message Waiting Reset For set station without MW Lamp F1005: Message Waiting Lamp

B



DESCRIPTION	DATA
Assign the Message Waiting key to DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [›] + Key No. (2) F6101: Message Waiting F6104: Reset
Select the Dial Tone on setting Message Waiting.	• Y=2 (1) 12: Dial Tone on setting Message Waiting (2) 0 : Special Dial Tone (Stutter Dial Tone) 1◀: Dial Tone

HARDWARE REQUIRED

Single-Line Telephone with the MW Lamp
8LC or 4LCD card
D^{term} and DLC card, if required.

MISCELLANEOUS TRUNK ACCESS

CCSA ACCESS

PROGRAMMING

In addition to the programming of Tie Lines, assign CCSA line to the required routes, as shown below.

START	DESCRIPTION	DATA
CM35	Assign CCSA line to required routes.	• Y=00 (1) 00-63: Trunk Route No. (06) (2) 03: CCSA line
	Specify the ICI key, for Attendant Console, to which a CCSA incoming call from the CCSA network will terminate.	• Y=15 (1) 00-63: Trunk Route No. (2) ICI key 30-37: CCSA Incoming Call 0-7
CM90	Assign the ICI key to the DESKCON, to which a CCSA incoming call will terminate.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + key No. (2) ICI key F6030-F6037: Call Termination from CCSA Line 0-7
CM20	Assign the CCSA access code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (85) (2) 100-163: Trunk Route No. 00-63 (06)
END		

HARDWARE REQUIRED

ODT card

CODE CALLING EQUIPMENT ACCESS

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the interface trunk (COT card and DK card) to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT Slot.*	(1) 000-763: LEN (2) D000-D255: COT card E800-E831 : DK card For PIM0/1 : E800-E807 For PIM2/3 : E808-E815 For PIM4/5 : E816-E823 For PIM6/7 : E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM14	Assign the interface trunk (COT card and DK card) to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT Slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255: COT card E800-E831 : DK card For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
A		

	DESCRIPTION	DATA
A		
CM30	Assign the trunk data to the trunk number.	• Y=00 Trunk Route Allocation (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. Dedicated route number for this service should be assigned. • Y=01 Tenant Allocation (1) 000-255: Trunk No. (2) 00-63: Tenant No.
CM35	Assign the route data to the trunk route specified by CM30 Y=00.	• Y=00 Kind of Route (1) 00-63: Trunk Route No. (2) 05 • Y=01 Type of Signal to be sent out (1) 00-63: Trunk Route No. (2) 2: DP 4: DTMF • Y=08 Dial Pulse Sending (1) 00-63: Trunk Route No. (2) 3◀: To send
CM44	Assign the paging function to the DK card.	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. of DK card 313: Built-in External Equipment Interface of MP card (2) 02 XX: Zone assigned by CM30 Y=28 XX : 00-09: Speaker Paging Zone 0-9
CM20	Assign the access code for this service.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) 100-163: Trunk Route No. 00-63 assigned by CM30 Y=00
END		

NOTE: *For assigning the Class of Service for this feature, refer to CLASS OF SERVICE.*
☞ *Page 211*

DICTATION EQUIPMENT ACCESS

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the trunk number to the required LEN.	(1) 000-763: LEN (2) D000-D255: Trunk No.
CM14	Assign the trunk number to the required LEN. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255: Trunk No.
CM30	Assign the trunk data to the trunk number.	• Y=00 Trunk route allocation (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. Dedicated route number for this service should be assigned. • Y=01 Tenant allocation (1) 000-255: Trunk No. (2) 00-63: Tenant No.
CM35	Assign the route data to the trunk route specified by CM30 Y=00.	• Y=00 Kind of Route (1) 00-63: Trunk Route No. (2) 05 • Y=01 Type of Signal to be sent out (1) 00-63: Trunk Route No. (2) 4: DTMF • Y=08 Dial Pulse Sending (1) 00-63: Trunk Route No. (2) 3◀: To send
CM20	Assign the access code for this service.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) 100-163: Trunk Route No. 00-63 assigned by CM30 Y=00
END		

NOTE: *For assigning the Class of Service for this feature, refer to CLASS OF SERVICE.*
☞ *Page 211*

FOREIGN EXCHANGE (FX) ACCESS

PROGRAMMING

In addition to the programming of Direct Outward Dialing, assign an FX line to the required trunk routes as shown below:

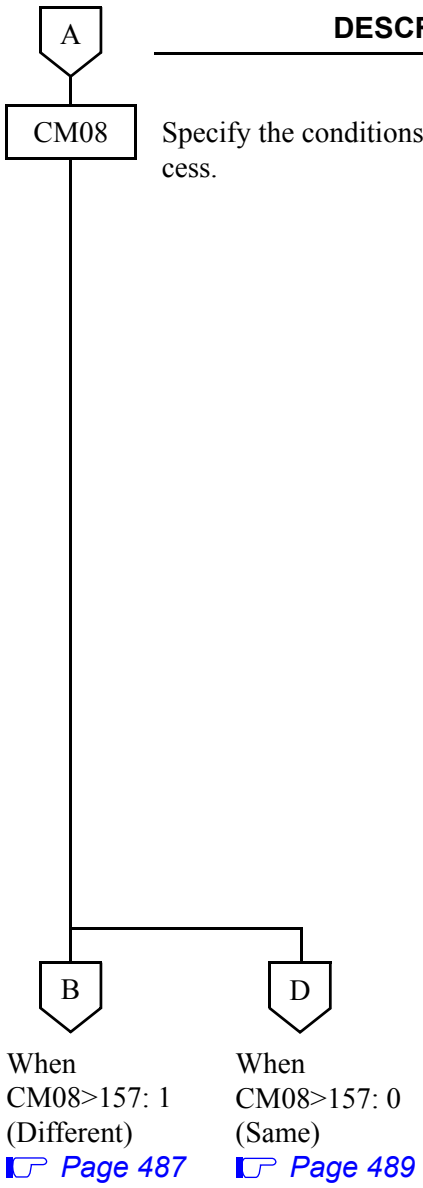
START	DESCRIPTION	DATA
CM35	Assign an FX line to the required trunk route.	• Y=00 (1) 00-63: Trunk Route No. (2) 01: FX line
END		

NOTE: *For assigning the Class of Service for this feature, refer to CLASS OF SERVICE.*
☞ *Page 211*

RADIO PAGING EQUIPMENT ACCESS

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the interface trunk for Radio Paging Equipment to the required LEN.	(1) 000-763: LEN (2) D000-D255: Trunk No.
CM14	Assign the interface trunk for Radio Paging Equipment to the required LEN. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255: Trunk No.
CM12	Assign Service Restriction Class A for Paging Access to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Paging Access in Service Restriction Class A assigned by CM12 Y=02.	• Y=08 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM41	Specify the timing for canceling the Paging Answer capability.	• Y=0 (1) 20 (2) 01-15: 60-900 seconds (60 second increments) If no data is set, the default setting is 300 seconds.
A		



DESCRIPTION

Specify the conditions for Radio Paging Access.

DATA

(1) 094: Paging Access Tone
(2) 0: To send

(1) 095: Hooking Signal to Radio Paging Equipment
(2) 0 : To send
1◀: Not sent

(1) 149: Automatic Call Back when paging station is busy through non-delay operation
(2) 0 : Available
1◀: Not available

(1) 157: Access Code for Paging Access and Answer
(2) 0 : Same
1◀: Different

(1) 162: Multiple Radio Paging Access after accessing a radio paging trunk with delay type Radio Paging
(2) 0 : Not available
1◀: Available

	DESCRIPTION	DATA
B		
CM20	Assign the access code for Paging Access and Answer.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) 100-163 : For Paging Access (Trunk Route 00-63) A070-A079: For Paging Answer (Paging Answer Zone 0-9)
CM30	Assign the data for Radio Paging to the desired trunk number.	• Y=00 Trunk Route Allocation (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. • Y=28 Zone/Kind of Paging (1) 000-255: Trunk No. (2) X Z X: 0-9: Paging Answer Zone 0-9 Z : Kind of Paging 1: No Answer 3: Non-Delay Answer 5: Non-Delay or Delay Answer 6: No Answer and Automatic Dialing of Calling Party's No.
C		

C

CM35

D

DESCRIPTION

Assign the route data to the trunk route number assigned by CM30 Y=00.

DATA

- Y=00

(1) 00-63: Trunk Route No. (07)
(2) 05

- Y=08 Dial Sending to Radio Paging Equipment

(1) 00-63: Trunk Route No.
(2) 3◀: Dial pulses are sent out

- Y=13 Maximum number of sending digits

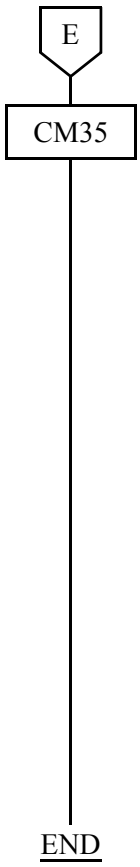
(1) 00-63: Trunk Route No.
(2) 000 : Only dialed No. is sent
001-004: 1 digit-4 digits of Radio No. and calling station No.
005-254: 2 digits of Radio Paging No. and calling station No. **NOTE**

NOTE: *To send a calling station No. automatically, the data for CM30 Y=28 must be set to "X6".*

D

	DESCRIPTION	DATA
CM20	Assign the access code for each Paging Answer Zone.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A070-A079: Paging Answer Zone 0-9
CM30	Assign the data for Radio Paging to the trunk number, assigned by CM10/CM14, as follows: Paging Answer: 0 ~ 9 Trunk Route: 50 ~ 59	• Y=00 Trunk Route Allocation (1) 000-255: Trunk No. (2) 50-59: Trunk Route No. • Y=28 Zone/Kind of Paging (1) 000-255: Trunk No. (2) X Z X: 0-9: Paging Answer Zone 0-9 Z : Type of Paging 1: No Answer 3: Non-Delay 5: Non-Delay or Delay Answer 6: No Answer and Automatic Dialing of Calling Party's No.

E



DESCRIPTION	DATA
Assign the route data to the trunk route number assigned by CM30 Y=00.	• Y=00 (1) 50-59: Trunk Route No. (2) 05 • Y=08 Dial Sending to Radio Paging Equipment (1) 50-59: Trunk Route No. (2) 3◀: Dial pulses are sent out • Y=13 Maximum number of sending digits (1) 50-59: Trunk Route No. (2) 000 : Only dialed No. is sent 001-004: 1 digit-4 digits of Radio No. and calling station No. 005-254: 2 digits of Radio Paging No. and calling station No. **NOTE** **NOTE:** *To send a calling station No. automatically, the data for CM30 Y=28 must be set to "X6".*

HARDWARE REQUIRED

COT card
Radio Paging Equipment provided locally

WIDE AREA TELEPHONE SERVICE (WATS) ACCESS

PROGRAMMING

In addition to the programming of Direct Outward Dialing, assign an WATS line to the required trunk route, as shown below:

START	DESCRIPTION	DATA
CM35	Assign a WATS line to the required trunk route.	• Y=00 (1) 00-63: Trunk Route No. (05) (2) 02: WATS line
END		

NOTE: *For assigning the Class of Service for this feature, refer to CLASS OF SERVICE.*
☞ *Page 211*

MOBILITY ACCESS

[Series 3700 R12.1 software required]

PROGRAMMING

In addition to the ISDN-BRI/ISDN-PRI programming, do the following programming.
As for the ISDN-BRI/ISDN-PRI programming, refer to the ISDN System Manual.

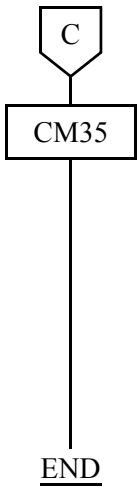
START	DESCRIPTION	DATA
CM30	Assign the data for DID to the trunk numbers assigned by CM07.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. assigned by CM07 Y=01 (2) 18: ISDN Indial
CM35	Assign the data for DID to the trunk routes assigned by CM30.	• Y=00 Kind of Trunk (1) 00-63: Trunk Route No. (2) 00: DID • Y=02 OG/IC (1) 00-63: Trunk Route No. (2) 3◀: Bothway Trunk • Y=05 Release Signal Condition (1) 00-63: Trunk Route No. (2) 1◀: Release signal arrives • Y=09 Incoming Connection Signaling (1) 00-63: Trunk Route No. (2) 08: ISDN
A		

	DESCRIPTION	DATA
A		
CM35	Assign the data for DID Digit Conversion to the trunk routes assigned by CM30.	• Y=18 Digit Conversion on DID call (1) 00-63: Trunk Route No. (2) 0: To provide • Y=170 Development Table (1) 00-63: Trunk Route No. (2) 0 : Development Table 1 3◀: Development Table 0 • Y=12 Number of digits to be received (1) 00-63: Trunk Route No. (2) 0 : 1 digit 1 : 2 digits 2 : 3 digits 3◀: 4 digits • Y=78 Number of digits to be converted for Development Table 0 (1) 00-63: Trunk Route No. (2) 0 : Leading 2-4 digits 1◀: All digits of DID are converted by CM76 • Y=171 Number of digits to be converted for Development Table 1 (1) 00-63: Trunk Route No. (2) 01-08: 1-8 digits 15◀ : 4 digits
CM76	Assign the Number Conversion Block number for Development Table 0. Assign the Number Conversion Block number for Development Table 1.	• Y=00 (1) X-XXXX: DID No. (2) 000-999: Number Conversion Block No. • Y=90 (1) X-XXXXXXXX: DID No. (2) 000-999: Number Conversion Block No.
B		

B

	DESCRIPTION	DATA
CM76	Assign the data for interpreting the digits received.	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) NONE◀: No data
CM36	For a mobile phone of Mobility Access, allow tandem connection between the incoming trunk route and the outgoing trunk route.	• Y=0 (1) XX ZZ XX: 00-63: Incoming Trunk Route ZZ : 00-63: Outgoing Trunk Route (2) 0: Allow
CM08	Specify the destination of DID call transfer to an attendant by CM51 Y=00/03/06 in system.	(1) 241 (2) 0: Tenant of called station
CM51	Assign the destination of DID call transferred when the station is busy/unassigned/no answer. **NOTE:** *The 1st data is set to the tenant No. of called station.*	• Y=00 No Answer • Y=03 Busy • Y=06 Unassigned (1) 00-63: Tenant No. (2) Destination: X-XXXXXXXX: Station No. E000: Attendant Console
CM35	Provide release of ISDN trunk when receiving the ISDN DISCONNECT message with Progress Description=08 from ISDN (effective for an outgoing call to ISDN).	• Y=158 (1) 00-63: Trunk Route No. (2) 0: To provide
	Provide release of ISDN trunk when receiving the ISDN DISCONNECT message with Progress Description=08 from ISDN (effective for an incoming call to ISDN).	• Y=208 (1) 00-63: Trunk Route No. (2) 1: To provide

C



DESCRIPTION	DATA
Provide release of ISDN trunk when receiving the ISDN DISCONNECT message with Progress Description=08 from ISDN because the called party is busy in tandem connection (ISDN to ISDN). **NOTE**	• Y=233 (1) 00-63: Trunk Route No. (2) 0: To provide
Provide relay of the ALERT message to the calling party in tandem connection (ISDN to ISDN). **NOTE**	• Y=266 (1) 00-63: Trunk Route No. (2) 0: To provide

NOTE: *Set CM35 Y=233/266 2nd data=0 to both the incoming trunk route and the outgoing trunk route of Mobility Access.*

To provide Mobility Access (MA), do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Mobility Access mode in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *This command is set to the Mobility Access station.*	• Y=216 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Restricted 1◀: Allow
CM76	Assign the following Mobility Access function to each DID Number. - For MA termination : 1 (2nd data=0) - For MA mode setting: 1 (2nd data=1) - For MA mode cancel: 1 (2nd data=2) - For MA station : Same number of MA station (2nd data=7)	• Y=41 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : To use Mobility Access termination 1 : To set Mobility Access Mode 2 : To cancel Mobility Access Mode 7◀: Not used Mobility Access function
CM64	Assign a trunk access code for call forwarding in Mobility Access mode.	• Y=10 (1) 00-63: Tenant No. (2) X-XXXX: Trunk Access Code (1-4 digits) NONE◀ : No data
END		

- To set or cancel Mobility Access mode from a mobile phone:

START	DESCRIPTION	DATA
CM20	Assign an access code for Mobility Access.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A231: Station Authorization Code Set/ Change
CM2B	Assign a Station Authorization Code to each station.	• Y=00 (1) X-XXXXXXXX: Station No. (2) X-XXXXXXXX: Authorization Code **NOTE:** *The maximum number of digits for Authorization Code is set by CM42>73.*
CM42	Specify the number of digits for Station Authorization Code.	(1) 73 (2) 01-08 : 1-8 digits NONE◀: 4 digits
END		

- To set or cancel Mobility Access mode from a station:

START	DESCRIPTION	DATA
CM20	Assign an access code for Mobility Access.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A256: Mobility Access Mode Set A257: Mobility Access Mode Cancel
CM90	Assign the function key of Mobility Access mode Set/Cancel to the designed station.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0B56: Mobility Access Mode Set/Cancel
END		

- To set or cancel Mobility Access mode from MAT:

START	DESCRIPTION	DATA
CME6	Assign a mobile phone No. link up with a Mobility Access station number.	• Y=50 (1) X-XXXXXXXX: Mobility Access Station No. (2) X-XX...XX: Mobile phone No. (Maximum 26 digits) **NOTE 1:** *Station number cannot be assigned to 2nd data.* **NOTE 2:** *When the mobile phone number has been already assigned to other station number, "ASSIGNED ALREADY" is displayed.* **NOTE 3:** *Outgoing Trunk Access Code (1-4 digits) must be assigned by CM64 Y=10.*
END		

- To assign a calling party number (DID number) of Mobility Access station displayed on the mobile phone:

START	DESCRIPTION	DATA
CM12	Assign an ISDN subscriber number to a Mobility Access station.	• Y=12 (1) X-XXXXXXXX: Mobility Access Station No. (2) X-XXXXXXXX: ISDN subscriber No.
	Assign an ISDN Local Office Code Table to a Mobility Access station.	• Y=13 (1) X-XXXXXXXX: Mobility Access Station No. (2) 00-14: ISDN Local Office Code Table No. 15◀ : Not used ISDN Local Office Code Table
CM50	Assign an ISDN Local Office Code to a Mobility Access station.	• Y=05 (1) 00-14: ISDN Local Office Code Table No. 00-14 (2) X-XX...XX: ISDN Local Office Code (Maximum 12 digits)
END		

NOTE: *A calling party number displayed on Mobility Access station is the following:*
ISDN subscriber number assigned by CM12 Y=12 + ISDN Local Office Code assigned by CM50 Y=05.

- To specify a D^{term} ringer tone pattern of Mobility Access call, do the following programming.

START	DESCRIPTION	DATA
CM76	Specify the Ringer Tone Pattern of the D^{term} on DID calls.	• Y=23 (1) 000-999: Number Conversion Block No. (2) 0 : Ringer Tone Pattern 0 1 : Ringer Tone Pattern 1 2 : Ringer Tone Pattern 2 3 : Ringer Tone Pattern 3 4 : Ringer Tone Pattern 4 5 : Ringer Tone Pattern 5 6 : Ringer Tone Pattern 6 7◀: As per CM35 Y=34/164
CM35	Specify the Ringer Tone Pattern of the D^{term} to each trunk route.	• Y=34, 164 (1) 00-63: Trunk Route No. (2) See the table below.
A		

Y=34	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

A

CM65

END

DESCRIPTION	DATA
Specify the ring frequency of the D^{term}.	• Y=40 (1) 00-63: Tenant No. (2) See the table below.

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀	
		Electra Terminal/ D^{term} Series III	Elite Terminal/D^{term} Series E/ D^{term} Series i
0	Door Phone Ringer Tone	1024 + 1285 [Hz]/ 16 [Hz] Modulating Signal	1100 + 1400 [Hz]/ 16 [Hz] Modulating Signal
1	Ringer Tone 1	480 + 606 [Hz]/ 8 [Hz] Modulating Signal	520 + 660 [Hz]/ 8 [Hz] Modulating Signal
2	Ringer Tone 2	600 + 700 [Hz]/ 16 [Hz] Modulating Signal	660 + 760 [Hz]/ 16 [Hz] Modulating Signal
3	Ringer Tone 3	1024 [Hz] Envelop	1100 [Hz] Envelop
4	Ringer Tone 4	500 [Hz]	540 [Hz]
5	Ringer Tone 5	1024 [Hz]	1100 [Hz]
6	Not used	1285 + 1024 [Hz]	1400 + 1100 [Hz]
7	Not used	480 + 606 [Hz]/ 16 [Hz] Modulating Signal	520 + 660 [Hz]/ 16 [Hz] Modulating Signal

NOTE: *This data is effective only for D^{term} Series i.*
When using Electra Terminal/D^{term} Series III/Elite Terminal/D^{term} Series E, using D^{term} Series i with Series 3100 software or before, or when accommodating D^{term} Series i in TDM based Remote PIM, the second data is fixed to 1.

To set Call Forwarding-All Calls of Mobility Access call from a mobile phone, do the following programming.

[Series 3700 R12.2 software required]

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Mobility Access Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-All Calls of Mobility Access call in Service Restriction Class A assigned by CM12 Y=02. **NOTE:** *This command is set to the Mobility Access station.*	• Y=218 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM12	Assign Service Restriction Class C to each station.	• Y=07 (1) X-XXXXXXXX: Mobility Access Station No. (2) 00-15◀: Service Restriction Class C
A		

A

	DESCRIPTION	DATA
CM15	Assign the priority for Call Forwarding-All Calls of Mobility Access call. **NOTE:** *Set the 2nd data to "0" to Mobility Access station number for Call Forwarding-All Calls of Mobility Access call.*	• Y=484 (1) 00-15◀: Service Restriction Class C assigned by CM12 Y=07 (2) 0 : See the table below. 3◀: See the table below.

PRIORITY	2ND DATA=0	2ND DATA=3◀
HIGH	Restriction of Inter-tenant Connection	Restriction of Inter-tenant Connection
	Call Forwarding-All Calls/Split Call Forwarding-All Calls	Call Forwarding-All Calls of Mobility Access
	Call Forwarding-All Calls of Mobility Access	Alternative ISDN Connection when Remote PIM in survival mode (CID Call Routing per each station)
	Alternative ISDN Connection when Remote PIM in survival mode (CID Call Routing per each station)	Alternative ISDN Connection when Remote PIM in survival mode (CID Call Routing per each tenant)
	Alternative ISDN Connection when Remote PIM in survival mode (CID Call Routing per each tenant)	Call Forwarding-Logout (D^{term}IP)
	Call Forwarding-Logout (D^{term}IP)	Call Forwarding-All Calls/Split Call Forwarding-All Calls
	UCD (Uniform Call Distribution)	UCD (Uniform Call Distribution)
	Do Not Disturb	Do Not Disturb
	Station Hunting	Station Hunting
LOW	Call Forwarding-Busy Line/Split Call Forwarding-Busy Line	Call Forwarding-Busy Line/Split Call Forwarding-Busy Line

CM20	Assign the access code for Call Forwarding-All Calls, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*5, #5) (2) A010: Call Forwarding-All Calls Set A011: Call Forwarding-All Calls Cancel
CM90	Assign Call Forwarding-All Calls keys to the D^{term}s, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0010: Call Forwarding-All Calls Set/Cancel

END

To set Call Forwarding-Busy Line for call forwarding in Mobility Access mode, do the following programming.

[Series 3700 R12.2 software required]

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Mobility Access Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-Busy Line for call forwarding in Mobility Access mode in Service Restriction Class A assigned by CM12 Y=02.	• Y=219 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Call Forwarding-Busy Line, Set and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*6, #6) (2) A014: Call Forwarding-Busy Line Set A015: Call Forwarding-Busy Line Cancel For setting the same access code as Call Forwarding-No Answer (1) X-XXXX: Access Code (*6, #6) (2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel
CM90	Assign Call Forwarding-Busy Line keys to the D^{term}, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0014: Call Forwarding-Busy Line Set/Cancel For setting the same key as Call Forwarding-No Answer (1) My Line No. + [,] + Key No. (2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel
END		

To provide Mobility Access hooking, do the following programming.

[For EU]

[Series 3700 R12.2 software required]

START	DESCRIPTION	DATA
CM08	Specify the output message which is sent from PBX to ISDN network when the 2nd line is released by Mobility Access hooking.	(1) 676 (2) 0 : As per CM08>677 1◀: CALL PROC+DISC
	Specify the output message which is sent from PBX to ISDN network when the 2nd line is released by Mobility Access hooking. **NOTE:** *This data is effective only when the 2nd data of CM08>676 is set to 0.*	(1) 677 (2) 0 : CALL PROC+ALERT+DISC 1◀: CALL PROC+ALERT+CONNECT+DISC
END		

To provide Mobility Access Prefix, do the following programming.

[For EU]

[Series 3900 software required]

START	DESCRIPTION	DATA
CM35	Assign Country Code for ETSI ISDN Addressing.	• Y=224 (1) 00-63: Trunk Route No. (2) X-XXXX: Country Code X: 0-9, A (*), B (#)
	Assign Area Code for ETSI ISDN Addressing.	• Y=225 (1) 00-63: Trunk Route No. (2) X-XXXXXX: Area Code X: 0-9, A (*), B (#)
	Provide Mobility Access Prefix.	• Y=284 (1) 00-63: Trunk Route No. (2) 0: To provide (When receiving Country Code assigned by CM35 Y=224 and Area Code assigned by CM35 Y=225) 1: To provide (When not receiving Country Code assigned by CM35 Y=224 and Area Code assigned by CM35 Y=225)
CM50	Assign Local Area Code and Mobility Access Prefix.	• Y=12 (1) 0 (2) X-XXXXXXXX: Local Area Code + Mobility Access Prefix X: 0-9, A (*), B (#)
END		

MULTILINE TERMINAL ATTENDANT POSITION

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the My Line number to the required LEN.	(1) 000-763: LEN (2) FX-FXXXXXXXX: My Line No.
CM14	Assign the My Line number to the required LEN. **[Series 3200 R6.2 software required]**	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) FX-FXXXXXXXX: My Line No.
CM12	Assign Service Restriction Class B for the Attendant Position to the required D^{term}.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow the Attendant Position in Service Restriction Class B assigned by CM12 Y=02. **NOTE:** *The Service Restriction Class number for the Attendant Position should be different from an ordinary station.*	• Y=71 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 0: Attendant Position
CM11	Assign the required number of Loop, ICI (Incoming Call Identification) and OPR (Operator Call) lines to the Virtual LEN. **NOTE:** *Usually, ICI/OPR numbers are assigned on a per-Attendant-Position-Group.*	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) AA X Y: Loop Line No. X: 0-7: Attendant Position No. Y: 1-5: Loop No. AB00-AB99: ICI/OPR Line No.
CM12	Assign each Loop Line number assigned by CM11 as an Attendant Loop Line.	• Y=03 (1) AA01-AA75: Loop Line No. assigned by CM11 (2) 08: Attendant Position Loop Line
	Assign Service Restriction Class B for the ICI key to the required ICI/OPR line numbers assigned by CM11.	• Y=02 (1) AB00-AB99: ICI/OPR Line No. assigned by CM11 (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
A		

	DESCRIPTION	DATA
A		
CM15	Allow the ICI/OPE key in Service Restriction Class B assigned by CM12 Y=02. **NOTE:** *The Service Restriction Class number for the Attendant Position should be different from an ordinary station.*	• Y=73 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 0: ICI/OPE key
CM12	Assign a Hotline station to each ICI/OPR line number. With this assignment, each ICI/OPR line is restricted from call origination.	• Y=03 (1) AB00-AB99: ICI/OPR No. (2) 04: Hotline
CM17	Assign a UCD station to each ICI/OPR line number. With this assignment, ICI/OPR lines are provided the call-queuing facility individually.	• Y=1 (1) AB00-AB99: ICI/OPR Line No. (2) 1: Pilot station • Y=2 (1) AB00-AB09: ICI/OPR Line No. (2) 00-15: UCD Group No. **NOTE:** *Individual UCD Group number must be assigned to each ICI/OPR Line number.*
CM20	Assign the access code for Priority Call 0 used for Attendant Position access.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Attendant Position Access Code (2) A088
CM51	Assign the destination of Priority Call 0 to each OPR line.	• Y=12 (1) 00-63: Tenant No. (2) AB00-AB99: OPR Line No.
CM08	Destination of Priority Call 0.	(1) 250 (2) 0: Same station as Off Hook Alarm
CM30	On the required trunks, assign the destination of DIT to each ICI line.	• Y=02 (1) 000-255: Trunk No. (2) 04: Direct-in Termination • Y=04 (1) 000-255: Trunk No. (2) AB00-AB99: ICI Line No.
B		

B

	DESCRIPTION	DATA
CM08	Provide the system with Day/Night Mode Change by an NT key on Attendant Position.	(1) 244: Terminating system change (2) 0: Available (1) 245: Trunk Restriction Class change (2) 0: Available
CM12	Assign Service Restriction Class B for Day/Night Mode Change by station dialing to Attendant Position.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Day/Night Mode Change by station dialing in Service Restriction Class B assigned by CM12 Y=02.	• Y=60 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CM90	Assign the Loop keys to each D^{term}, and assign the function keys required for the Attendant Position to the D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) AA01-AA75 : Loop Key AB00-AB99 : ICI/OPR Key F1020 : Release Key F1080 : Do Not Disturb Override F0300 : Operator Call Key F1300-F1363: Night Key
CM08	Specify Line Preselection on a D^{term} after pressing the desired LINE/TRUNK key. **NOTE:** *To provide a Trunk Name/Station Name, refer to ALPHANUMERIC DISPLAY.* ☞ Page 25	(1) 199 (2) 0 : Not required 1◀: Required

END

To use a DSS Console with the D^{term} Attendant Position, add the following programming.

START	DESCRIPTION	DATA
CM10	Assign the DSS Console number to the required LEN.	(1) 000-763: LEN (2) E100-E131 : DSS Console No. For PIM0/1 : E100-E107 For PIM2/3 : E108-E115 For PIM4/5 : E116-E123 For PIM6/7 : E124-E131
CM14	Assign the DSS Console number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE:** *When using Series 3500 software or later, for the FP No. 00-03 of MP built-in FP/FP card of Main Site and MP built-in FP of Remote Site, the DSS console number (E100-E131) can be assigned without limit as shown right.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) E100-E131 : DSS Console No. For FP No. 00: E100-E107 For FP No. 01: E108-E115 For FP No. 02: E116-E123 For FP No. 03: E124-E131
CM96	Assign the My Line number of the Attendant Position associated with each DSS Console.	(1) 00-31: DSS Console No. assigned by CM10/CM14 (E100-E131) (2) X-XXXXXXXX: My Line No. of Attendant Position
CM97	Assign station numbers to the DSS keys. Assign the MW, DND, NT keys as function keys.	(1) For DSS key: DSS Console No. (00-31) + [,] + DSS key No. (00-59) (2) X-XXXXXXXX: Station No. (1) For Function key: DSS Console No. (00-31) + [,] + DSS key No. (57-59) (2) F1049: Message Waiting F1053: Do Not Disturb F0043: Night Key
END		

To restrict the call termination to D^{term} Attendant Position to which Night Mode is set:

[Series 3700 R12.1 software required]

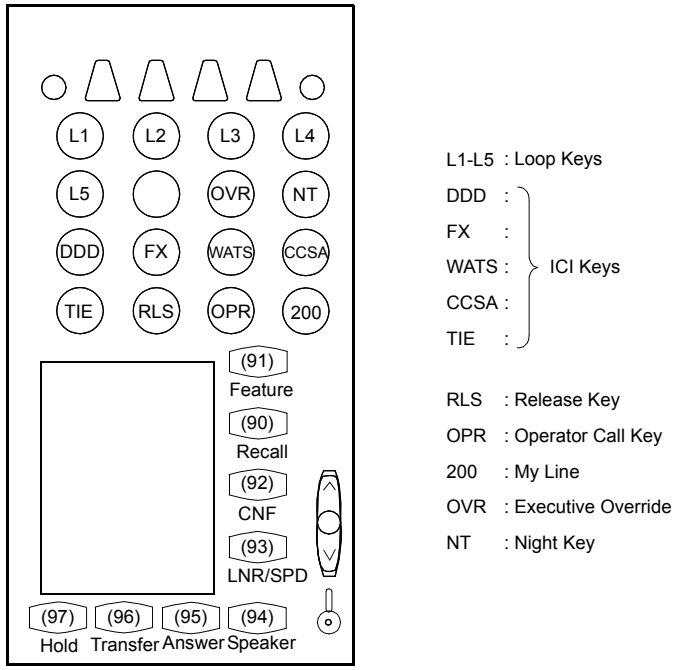
START	DESCRIPTION	DATA
CM13	Restrict the call termination to D^{term} Attendant Position to which Night Mode is set.	• Y=56 (1) X-XXXXXXXX: Station No. (2) 0: Restricted
CM08	Provide the Attendant Night Transfer when a station/trunk call is terminated to D^{term} Attendant Position to which Night Mode is set.	(1) 576 (2) 0: To provide
CM51	Not assign transfer destination of station/trunk call to D^{term} Attendant Position to which Night Mode is set.	• Y=09 (1) 00-63: Tenant No. (2) NONE◀: No data
END		

To provide the Attendant Night Transfer when a station/trunk call is terminated to D^{term} Attendant Position to which Night Mode is set:

[Series 3700 R12.1 software required]

START	DESCRIPTION	DATA
CM13	Allow the call termination to D^{term} Attendant Position to which Night Mode is set.	• Y=56 (1) X-XXXXXXXX: Station No. (2) 1◀: Allowed
CM08	Provide the Attendant Night Transfer when a station/trunk call is terminated to D^{term} Attendant Position to which Night Mode is set.	(1) 576 (2) 0: To provide
CM51	Assign the transfer destination of station/Priority Call to D^{term} Attendant Position to which Night Mode is set. or Assign the transfer destination of DID/Tie Line/station call when the called station is set to Call Forwarding-Busy Line/-No Answer and the destination of forwarded call is set to the D^{term} Attendant Position to which Night Mode is set.	• Y=09 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
END		

Example:



Conditions

(1) Operator Access Code: 0
(2) My Line No.: 200
(3) ICI/Function Keys
  – DDD Line : TRUNK 000-004 (ICI Line No.=AB20)
  – FX Line : TRUNK 005 (ICI Line No.=AB21)
  – WATS Line: TRUNK 006 (ICI Line No.=AB22)
  – CCSA Line: TRUNK 007 (ICI Line No.=AB23)
  – TIE Line : TRUNK 008-010 (ICI Line No.=AB24)
  – OPR Line : Operator Call from Stations (OPR Line No.=AB10)
  – OVR Key : Executive Override
  – NT Key : Night Key
(4) Number of Loop: 5 (Loop Line No.=AA01-AA05)
(5) Tenant No.: 00
(6) Numbering Plan Group: 0
(7) Type of D^{term}: DTP-16D-1

Programming for Example:

COMMAND CODE	1ST DATA	2ND DATA	REMARKS
11	000	AA01	
	001	AA02	
	002	AA03	Loop Line Number
	003	AA04	
	004	AA05	
	005	AB10	OPR Line Number
	006	AB20	DDD
	007	AB21	FX
	008	AB22	WATS — ICI Line Number
	009	AB23	CCSA
	010	AB24	TIE
12-02	200	1500	Service Class for Attendant Position
	AB10	1501	
	AB20	1501	
	AB21	1501	Service Class for ICI Line
	AB22	1501	
	AB23	1501	
	AB24	1501	
12-03	AA01	08	
	AA02	08	
	AA03	08	Service Class for Loop Line
	AA04	08	
	AA05	08	
	AB10	04	
	AB20	04	
	AB21	04	
	AB22	04	Hotline Assignment
	AB23	04	
	AB24	04	
	200	15	
15-071	00	0	Attendant Position Class
15-073	01	0	ICI/OPR Key Class
17-1	AB10	1	
	AB20	1	
	AB21	1	Assign UCD Pilot Station to the ICI/OPR
	AB22	1	Line Numbers
	AB23	1	
	AB24	1	

COMMAND CODE	1ST DATA	2ND DATA	REMARKS
17-2	AB10	00	
	AB20	01	
	AB21	02	Assign UCD Group to the ICI/OPR Line
	AB22	03	Numbers
	AB23	04	
	AB24	05	
20-0	0	A088	Operator Access Code
51-12	00	AB10	Operator Call Termination to OPR Line
08	250	0	
30-02	000	04	
	001	04	
	002	04	
	003	04	DIT
	004	04	
	005	04	
	006	04	
30-04	000	AB20	
	001	AB20	
	002	AB20	
	003	AB20	Incoming Call Termination to ICI Line
	004	AB20	
	005	AB21	
	006	AB22	
90-00	200,01	AA01	
	200,02	AA02	
	200,03	AA03	LOOP Key
	200,04	AA04	
	200,05	AA05	
	200,07	F0006	OVR Key
	200,08	F1300	NT Key
	200,09	AB20	DDD Key
	200,10	AB21	FX Key
	200,11	AB22	WATS Key
	200,12	AB23	CCSA Key
	200,13	AB24	TIE Key
	200,14	F1020	RLS Key
	200,15	AB10	OPR Key
	200,16	200	My Line Key
08	244	0	Definition of NT key function
08	245	0	

MULTIPLE LANGUAGE DISPLAY

PROGRAMMING

To specify the display language for each station, do the following programming:
[Series 3600 software required]

- For D^{term}:

START	DESCRIPTION	DATA
CM12	Specify the display language for a D^{term} to each station.	• Y=63 (1) X-XXXXXXXX: Station No. (2) 00 : Japanese 01 : English 02 : French (Canadian French) 03 : Spanish (Latin Spanish) 04 : Portuguese (Brazilian Portuguese) 05 : German 06 : Italian 07 : Netherlandish 08 : French (Europe) 09 : Spanish (Europe) 10 : Portuguese (Europe) 11 : Swedish 12 : Danish 13 : Catalan (Europe) **[Series 3800 software required]** NONE◀: As per CM04 Y=00>00
CM08	Specify whether the monetary unit for ISDN call charge is displayed or not. **NOTE:** *When setting the second data to 1 and CM04 Y=00>00 is set to 01-31, $ is displayed.*	(1) 820 (2) 0 : Monetary unit is not displayed 1◀: As per CM04 Y=00>00
END		

- For Attendant console/DESKCON:

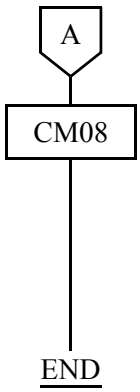
START	DESCRIPTION	DATA
CM60	Specify the display language for an Attendant console/DESKCON to each ATTCON number.	• Y=33 (1) 0-7: ATTCON No. (2) 00 : Japanese 01 : English 02 : French (Canadian French) 03 : Spanish (Latin Spanish) 04 : Portuguese (Brazilian Portuguese) 05 : German 06 : Italian 07 : Netherlandish 08 : French (Europe) 09 : Spanish (Europe) 10 : Portuguese (Europe) 11 : Swedish 12 : Danish 13 : Catalan (Europe) **[Series 3800 software required]** 31◀: As per CM04 Y=00>00
CM08	Specify whether the monetary unit for ISDN call charge is displayed or not. **NOTE:** *When setting the second data to 1 and CM04 Y=00>00 is set to 01-31, $ is displayed.*	(1) 820 (2) 0 : Monetary unit is not displayed 1◀: As per CM04 Y=00>00
END		

To specify the display language for each system, do the following programming:

START	DESCRIPTION	DATA
CM12	Specify the display language for a D^{term} to each station.	• Y=63 (1) X-XXXXXXXX: Station No. (2) NONE◀: As per CM04 Y=00>00
CM60	Specify the display language for an Attendant console/DESKCON to each ATTCON number.	• Y=33 (1) 0-7: ATTCON No. (2) 31◀: As per CM04 Y=00>00
CM04	Display language for D^{term}/Attendant console/ DESKCON LCD (System Base).	• Y=00 (1) **[Series 3200 R6.2 (R6.2) software or before]** 1 : English 2 : French (Canadian French) 3 : Spanish (Latin Spanish) 4 : Portuguese (Brazilian Portuguese) 5 : German 6 : Italian 7◀: English **[Series 3300 software or later]** 00 : Japanese 01 : English 02 : French (Canadian French) 03 : Spanish (Latin Spanish) 04 : Portuguese (Brazilian Portuguese) 05 : German 06 : Italian 07 : Netherlandish 08 : French (Europe) 09 : Spanish (Europe) 10 : Portuguese (Europe) 11 : Swedish 12 : Danish 13 : Catalan (Europe) **[Series 3800 software required]** 31◀: English

NOTE: *When using Series 3600 software or later, a reset of the MP card is not required. When changing the data with online, the data is valid after the DLC card is unplugged and plugged in or pull out and reconnect the modular connector of the terminal.*

A



DESCRIPTION	DATA
Specify whether the monetary unit for ISDN call charge is displayed or not. **NOTE:** *When setting the second data to 1 and CM04 Y=00>00 is set to 01-31, $ is displayed.*	(1) 820 (2) 0 : Monetary unit is not displayed 1◀: As per CM04 Y=00>00

HARDWARE REQUIRED

- D^{term} with LCD and DLC card
- Attendant console/DESKCON with LCD and DLC card

MUSIC ON HOLD

PROGRAMMING

To provide Hold Tone Source on the MP card:

START	DESCRIPTION	DATA
CM48	Set the music for Internal Hold Tone. **NOTE 1:** *When PN-CP24-D/PN-CP26-B/ PN-CP27-B/PN-CP31-D is used as MP card, the following tone sources are not available: "It's a small world (2nd data 05)", "Let it be (2nd data 07)", and "If you love me (2nd data 09)". "Minuet" will be set instead of those tone sources.* **NOTE 2:** *This data setting is effective only for the legacy terminal.* *For D^{term}IP, this data setting is not effective. D^{term}IP uses the tone source in IP Adapter (Minuet).*	• Y=3 (1) 01 (2) 00 : Nocturne 01 : Minuet 02 : Fur Elise 03 : The Maiden's Prayer 04 : When the saints go marching in 05 : It's a small world 06 : Spring (by four seasons) 07 : Let it be 08 : Ich bin ein Musikante (German folk song) 09 : If you love me 10 : Amaryllis (French folk song) NONE◀: Minuet
	Define the type of call to be provided with Hold Tone on the MP card.	• Y=0 (1) 00: C.O. Line Call 01: Tie Line Call 02: Internal Call (2) 1400: Hold Tone Source on MP card
END		

To provide Internal Hold Tone generated by DTG:

START	DESCRIPTION	DATA
CM48	Define the type of call to be provided with Hold Tone.	• Y=0 (1) 00: C.O. Line Call 01: Tie Line Call 02: Internal Call (2) 1500: Hold Tone generated by DTG
END		

To provide External Hold Tone Source through Pin JACK on the MP card:

START	DESCRIPTION	DATA
CM48	Define the type of call to be provided with Hold Tone. **NOTE:** *Set the JP1 switch on the MP card to RIGHT position for using external tone source.*	• Y=0 (1) 00: C.O. Line Call 01: Tie Line Call 02: Internal Call (2) 1400: Hold Tone Source through MP card
END		

To provide External Hold Tone Source through the COT and DK card:

START	DESCRIPTION	DATA
CM10	Assign the COT and DK for interface with External Hold Tone Source to required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.* **NOTE 2:** *The COT card number must be assigned for each tenant. One External Hold Tone Source can be provided per tenant.*	(1) 000-763: LEN (2) DA00-DA09: COT Card No. **NOTE 2** E800-E831 : DK Card No. For PIM0/1 : E800-E807 For PIM2/3 : E808-E815 For PIM4/5 : E816-E823 For PIM6/7 : E824-E831 **NOTE 3:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface on MP card by setting CM44.*
CM14	Assign the COT and DK for interface with External Hold Tone Source to required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.* **NOTE 2:** *The COT card number must be assigned for each tenant. One External Hold Tone Source can be provided per tenant.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) DA00-DA09: COT Card No. **NOTE 2** E800-E831 : DK Card No. For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 3:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface on MP card by setting CM44.*
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
A		

	DESCRIPTION	DATA
A		
CM44	Set the function of External Hold Tone Source interface to the DK card.	(1) XX Y XX: 00-31: Card No. E800-E831 assigned by CM10/CM14 Y : 0-3: Circuit No. 313: Built-in External Equipment Interface on MP card (2) 0000-0009: External Hold Tone for Music on Hold
CM48	Define the type of call to be provided with External Hold Tone. (INITIAL)	• Y=0 (1) 00: C.O. Line Call 01: Tie Line Call 02: Station (2) 0200: External Hold Tone Source
CM64	Specify External Hold Tone Source per each tenant.	• Y=1 (1) 00-63: Tenant No. (2) 00-09: External Hold Tone Source No.
CM08	Specify which tenant External Hold Tone is sent from.	(1) 388 (2) 0 : Tenant of held station/trunk 1◀: Tenant of holding station
END		

To provide the Message on Hold by the Digital Announcement Trunk (DAT):

START	DESCRIPTION	DATA
CM10	Assign the Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of MP card.*
CM14	Assign the Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of MP card.*
CM12	Assign Service Restriction Class A to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Digital Announcement Trunk access (Record/Replay/Delete) in Service Restriction Class A assigned by CM12 Y=02.	• Y=33 (1) XX: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM48	Define the type of call to be provided with Hold Message.	• Y=0 (1) 00: C.O. Line Call 01: Tie Line Call 02: Internal Call (2) 0500: Hold Message
A		

	DESCRIPTION	DATA
A		
CM49	Assign the data for Message on Hold Service to the Digital Announcement Trunk.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. assigned by CM10/ CM14 (EB002-EB127) (2) 05XX: Message on Hold XX : 00-63: Message No. • Y=05 (1) 00-63: Tenant No. (2) 00-63: Message No. assigned by CM49 Y=00
CM20	To record, replay and delete a message, assign the appropriate Digital Announcement Trunk access code respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete
END		

To provide External Hold Tone Source through TNT card:

START	DESCRIPTION	DATA
CM10	Assign the TNT card number (External Hold Tone Source number) to the required LEN. **NOTE 1:** *The TNT card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.* **NOTE 2:** *The TNT card number must be assigned for each tenant. One External Hold Tone Source can be provided per tenant.*	(1) 000-763: LEN (2) DA00-DA09: TNT Card No.
CM14	Assign the TNT card number (External Hold Tone Source number) to the required LEN. **[Series 3600 R6.1 software required]** **NOTE 1:** *The TNT card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.* **NOTE 2:** *The TNT card number must be assigned for each tenant. One External Hold Tone Source can be provided per tenant.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) DA00-DA09: TNT Card No.
CM48	Define the type of call to be provided with External Hold Tone. (INITIAL)	• Y=0 (1) 00: C.O. Line Call 01: Tie Line Call 02: Station (2) 0200: External Hold Tone Source
CM64	Specify External Hold Tone Source per each tenant.	• Y=1 (1) 00-63: Tenant No. (2) 00-09: External Hold Tone Source No. (TNT Card No. DA00-DA09)
CM08	Specify which tenant External Hold Tone is sent from.	(1) 388 (2) 0 : Tenant of held station/trunk 1◀: Tenant of holding station
END		

HARDWARE REQUIRED

To provide External Hold Tone Source through the COT and DK card:

COT card

DK card or MP card (built-in External Equipment Interface)

External Hold Tone Source provided locally

To provide Message on Hold by Digital Announcement Trunk:

DAT card or MP card (built-in DAT)

To provide the External Hold Tone Source through the TNT card:

- TNT card or through Pin Jack on MP card
- External Tone Source provided locally

NIGHT SERVICE

ATTENDANT NIGHT TRANSFER

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Attendant Night Transfer.	(1) 018: Attendant Night Transfer (2) 1◀: Available
CM51	Assign the Night Station to each ATTCON Group.	• Y=13 (1) 00-03: ATTCON Group 0-3 assigned by CM60 Y=00 (2) X-XXXXXXXX: Night Station No.
END		

CALL REROUTING

PROGRAMMING

Refer to the following.

DIRECT INWARD DIALING (DID) ☞ *Page 297*
DIRECT INWARD TERMINATION (DIT) ☞ *Page 321*
NIGHT CONNECTION-FLEXIBLE ☞ *Page 538*
TRUNK ANSWER ANY STATION (TAS) ☞ *Page 543*
TIE LINES ☞ *Page 688*

DAY/NIGHT MODE CHANGE BY STATION DIALING

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Day/Night Mode Change by Station Dialing.	(1) 244: Change of Terminating System Incoming Trunk (2) 0: Available
		(1) 245: Change Trunk Restriction Class (2) 0: Available
CM30	Assign the data for terminating system in Day Mode/Night Mode/Mode A/Mode B, to each Loop/Ground Start trunk, respectively.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. (2) 04: Direct-In Termination
	Assign the station number to be terminated by DIT in Day Mode/Night Mode/Mode A/Mode B respectively.	• Y=04 Day Mode • Y=05 Night Mode • Y=42 Mode A • Y=43 Mode B (1) 000-255: Trunk No. (2) X-XXXXXXXX: Station No.
CM65	When using Mode A or Mode B, assign the terminating system Mode change.	• Y=29 (1) 00-63: Tenant No. (2) 0 : Two kinds of mode (Day Mode, Night Mode) 1◀: Four kinds of mode (Day Mode, Night Mode, Mode A, Mode B)
CM12	Assign Service Restriction B to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Day/Night Mode Change by Station Dialing in Service Restriction B assigned by CM12 Y=02.	• Y=60 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
A		

	DESCRIPTION	DATA
A		
CM20	Assign the access code for Day/Night Mode Change by Station Dialing.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (68) (2) A043: Day/Night Mode Change by Station Dialing
CM90	Assign the Day/Night Mode Change by Tenant key on the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1300-F1363: Day/Night Mode Change by Tenant 00-63
	To the key which is set by CM90 Y=00>F13XX, specify the call indicator lamp control as "not available".	• Y=05 (1) My Line No. + [,] + Key No. (2) 0: Not available
CM97	Assign the Day/Night Mode Change by Tenant key on the DSS Console, if required.	(1) DSS Console No. (00-31) + DSS key No. (00-59) (2) F1300-F1363: Day/Night Mode Change by Tenant 00-63
END		

NOTE: *The following trunk data (CM30) can be changed by this feature (depending upon programming).*

Day (Y)		*Night (Y)*
02	◄►	*03*
04	◄►	*05*
13	◄►	*14*
15	◄►	*16*
30	◄►	*31*

Mode A (Y)		*Mode B (Y)*
40	◄►	*41*
42	◄►	*43*

DAY/NIGHT MODE CHANGE BY SYSTEM CLOCK

PROGRAMMING

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2000-2099 (1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW : 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat) (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM : 00-59 (Minute) SS : 00-59 (Second)
CM65	Select the two kinds of mode change or the four kinds of mode change per each tenant.	• Y=29 (1) 00-63: Tenant No. (2) 0 : Two kinds of mode (Day Mode, Night Mode) 1◀: Four kinds of mode (Day Mode, Night Mode, Mode A, Mode B)
	Assign whether the Trunk Restriction Class is changed according to the schedule of Day/ Night Mode Change by System Clock.	• Y=36 (1) 00-63: Tenant No. (2) 0 : Provide (Day Mode/Night Mode only) 1◀: Not provided

NOTE: *In four kinds of mode change, the trunk restriction class is changed as follows:*
- *Day Mode* ⟶ *Day Mode*
- *Night Mode/Mode A/Mode B* ⟶ *Night Mode*

A

A

CM4A

DESCRIPTION	DATA
Assign the Default Pattern number to each tenant to simplify the schedule assignment, if required. See "Default Pattern of Time Schedule". ☞ *Page 535* OFF LINE	• Y=90 (1) 00-63: Tenant No. (2) 00: Default Pattern No. 0 01: Default Pattern No. 1 02: Default Pattern No. 2 03: Default Pattern No. 3
NOTE 1: *When CM4A Y=90 is assigned, previously assigned system data is overwritten.*	
NOTE 2: *The schedule of each Default Pattern can be changed after the Default Pattern has been assigned.*	
Assign the calendar number to each tenant number.	• Y=00 (1) 00-63: Tenant No. (2) 00-03: Calendar No. 1-4
Assign the week schedule number to the date to change schedule, in each calendar number assigned by CM4A Y=00.	• Y=01 Calendar No. 1 • Y=02 Calendar No. 2 • Y=03 Calendar No. 3 • Y=04 Calendar No. 4 (1) XX ZZ: Date XX: 01-12: Month ZZ : 01-31: Date (2) 10 : Week Schedule No. 0 11 : Week Schedule No. 1 12 : Week Schedule No. 2 13 : Week Schedule No. 3 NONE◀: Week Schedule No. 0

B

B

CM4A

C

DESCRIPTION	DATA
If you want to assign the exceptional schedule for a date, assign the time schedule number to the date, in each calendar number assigned by CM4A Y=00.	• Y=01 Calendar No. 1 • Y=02 Calendar No. 2 • Y=03 Calendar No. 3 • Y=04 Calendar No. 4 (1) XX ZZ: Date XX: 01-12: Month ZZ : 01-31: Date (2) 20 : Time Schedule No. 0 21 : Time Schedule No. 1 22 : Time Schedule No. 2 23 : Time Schedule No. 3 24 : Time Schedule No. 4 25 : Time Schedule No. 5 26 : Time Schedule No. 6 27 : Time Schedule No. 7 NONE◀: Week Schedule No. 0
Assign the time schedule number to each day in the week schedule assigned by CM4A Y=01-04.	• Y=10 Week Schedule No. 0 • Y=11 Week Schedule No. 1 • Y=12 Week Schedule No. 2 • Y=13 Week Schedule No. 3 (1) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday (2) 20 : Time Schedule No. 0 21 : Time Schedule No. 1 22 : Time Schedule No. 2 23 : Time Schedule No. 3 24 : Time Schedule No. 4 25 : Time Schedule No. 5 26 : Time Schedule No. 6 27 : Time Schedule No. 7 NONE◀: Time Schedule No. 0

C

CM4A

CM61

END

DESCRIPTION

Assign the time and its mode for the time schedule assigned by CM4A Y=10-13 or Y=01-04.

NOTE 1: *Only "0" or "5" is available for the last digit number of minute at the 1st data of CM4A Y=20-27.*
When the following last digit number is assigned, the number is corrected and set as follows:

assigned number		*corrected to*
1-4	→	*0*
6-9	→	*5*

NOTE 2: *Actually, the mode is changed after 4-8 seconds of the assigned time.*

To cancel the Day/Night Mode Change by System Clock temporarily, assign the external key as the cancel key.

DATA

- Y=20 (Time Schedule No. 0)
- Y=21 (Time Schedule No. 1)
- Y=22 (Time Schedule No. 2)
- Y=23 (Time Schedule No. 3)
- Y=24 (Time Schedule No. 4)
- Y=25 (Time Schedule No. 5)
- Y=26 (Time Schedule No. 6)
- Y=27 (Time Schedule No. 7)

(1) XX ZZ: Time
XX: 00-23: Hour
ZZ : 00-55: Minute **NOTE 1, NOTE 2**
(2) 00 : Day Mode
01 : Night Mode
02 : Mode A
03 : Mode B
NONE◀: Day Mode

- Y=30

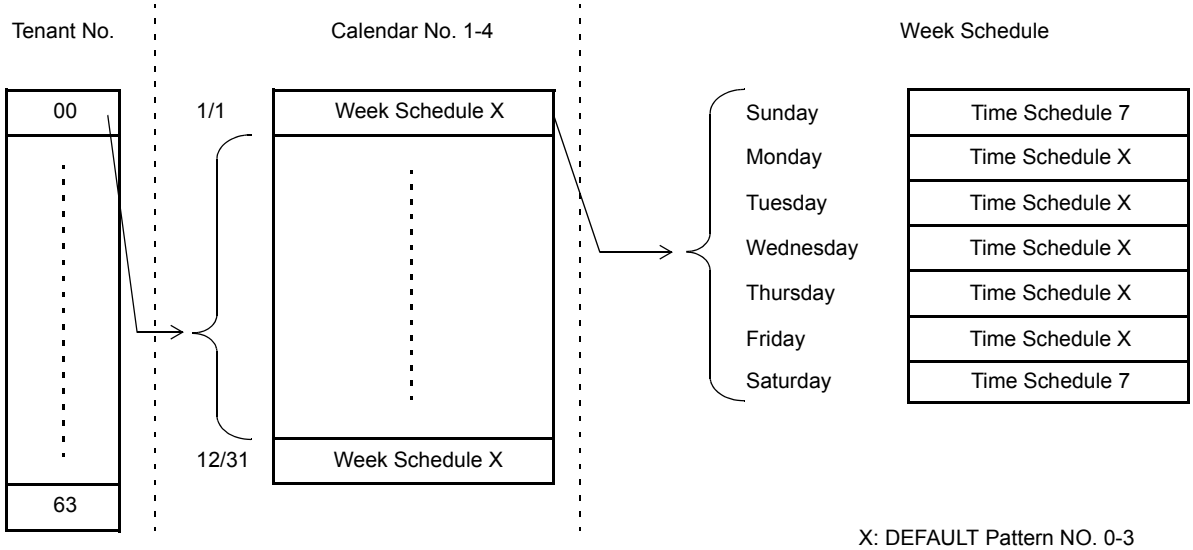
(1) XX Z
XX: 00-31: DK Card No. assigned by CM10/CM14 (E900-E963)
Z : 0-3: Circuit No.
633: MP Built-in External Key Interface
(2) 01: Day/Night Mode Change by System Clock Cancel Key

■ Default Pattern of Time Schedule

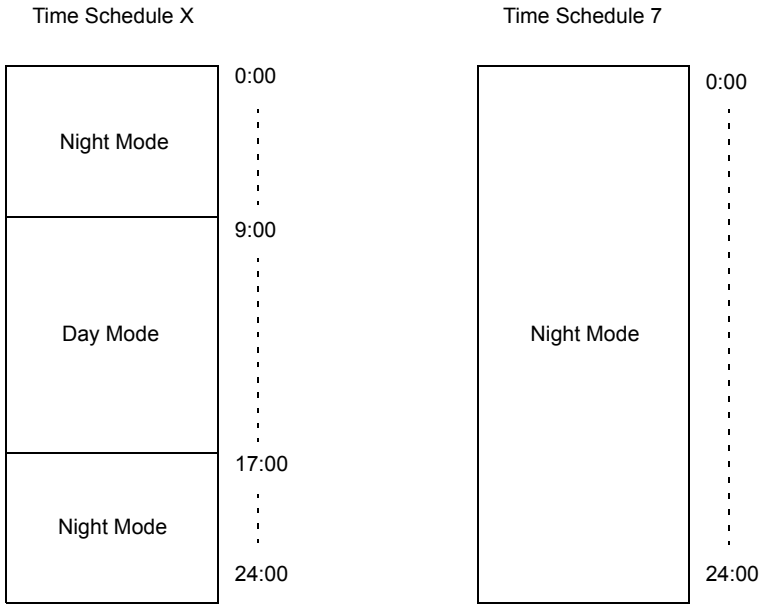
By assigning CM4A Y=90; Default Pattern No. 0-3, you can simplify the schedule assignment for each tenant. The schedule of each Default Pattern can be changed after the Default Pattern has been assigned.

The following shows the summary of the Default Pattern and the schedule set by each Default Pattern.

Summary of Default Pattern



X: DEFAULT Pattern NO. 0-3



Continued on next page

Default Pattern of Time Schedule (CM4A Y=90)

- Default Pattern No. 0 (CM4A Y=90 2nd data: 00)

CM4A Y No.	1ST	2ND	MEANING OF SETTING
00	00-63	00	Calendar No. 1 is used for the tenant
01	0101-1231	10	Week schedule No. 0 is used for all date
10	1-5	20	Time schedule No. 0 is used for Monday through Friday
10	0, 6	27	Time schedule No. 7 is used for Saturday and Sunday
20	0000-0855	01	0:00-9:00 is Night Mode for time schedule No. 0
20	0900-1655	00	9:00-17:00 is Day Mode for time schedule No. 0
20	1700-2355	01	17:00-24:00 is Night Mode for time schedule No. 0
27	0000-2355	01	0:00-24:00 is Night Mode for time schedule No. 7

- Default Pattern No. 1 (CM4A Y=90 2nd data: 01)

CM4A Y No.	1ST	2ND	MEANING OF SETTING
00	00-63	01	Calendar No. 2 is used for the tenant
02	0101-1231	11	Week schedule No. 1 is used for all date
11	1-5	21	Time schedule No. 1 is used for Monday through Friday
11	0, 6	27	Time schedule No. 7 is used for Saturday and Sunday
21	0000-0855	01	0:00-9:00 is Night Mode for time schedule No. 1
21	0900-1655	00	9:00-17:00 is Day Mode for time schedule No. 1
21	1700-2355	01	17:00-24:00 is Night Mode for time schedule No. 1
27	0000-2355	01	0:00-24:00 is Night Mode for time schedule No. 7

Default Pattern of Time Schedule (CM4A Y=90)

- Default Pattern No. 2 (CM4A Y=90 2nd data: 02)

CM4A Y No.	1ST	2ND	MEANING OF SETTING
00	00-63	02	Calendar No. 3 is used for the tenant
03	0101-1231	12	Week schedule No. 2 is used for all date
12	1-5	22	Time schedule No. 2 is used for Monday through Friday
12	0, 6	27	Time schedule No. 7 is used for Saturday and Sunday
22	0000-0855	01	0:00-9:00 is Night Mode for time schedule No. 2
22	0900-1655	00	9:00-17:00 is Day Mode for time schedule No. 2
22	1700-2355	01	17:00-24:00 is Night Mode for time schedule No. 2
27	0000-2355	01	0:00-24:00 is Night Mode for time schedule No. 7

- Default Pattern No. 3 (CM4A Y=90 2nd data: 03)

CM4A Y No.	1ST	2ND	MEANING OF SETTING
00	00-63	03	Calendar No. 4 is used for the tenant
04	0101-1231	13	Week schedule No. 3 is used for all date
13	1-5	23	Time schedule No. 3 is used for Monday through Friday
13	0, 6	27	Time schedule No. 7 is used for Saturday and Sunday
23	0000-0855	01	0:00-9:00 is Night Mode for time schedule No. 3
23	0900-1655	00	9:00-17:00 is Day Mode for time schedule No. 3
23	1700-2355	01	17:00-24:00 is Night Mode for time schedule No. 3
27	0000-2355	01	0:00-24:00 is Night Mode for time schedule No. 7

NIGHT CONNECTION-FIXED

NIGHT CONNECTION-FLEXIBLE

PROGRAMMING

To Provide Night Connection Stations:

START	DESCRIPTION	DATA
CM30	Assign a Night Connection Station to each incoming trunk.	• Y=03 (1) 000-255: Trunk No. (2) 04: Direct-In Termination • Y=05 (1) 000-255: Trunk No. (2) X-XXXXXXXX: Night Connection Station No.
	Assign the destination to which a call is forwarded when the Night Connection Station is busy/no answer.	• Y=14 When Night Connection Station is busy (1) 000-255: Trunk No. (2) 01 : To TAS 04 : To Attendant Console 06 : Automatic Camp-On 15◀: Keep the call ringing until the station becomes idle • Y=16 When Night Connection Station is no answer (1) 000-255: Trunk No. (2) 01 : To Attendant Console 03 : To TAS 15◀: Keep the call ringing until the station answers
CM41	Specify the timing for a call forwarding when the Connection Station is no answer. **NOTE:** *This timing is also applied to Call Forwarding-No Answer, Attendant Overflow, and Group Diversion.*	• Y=0 (1) 01 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
END		

OVERFLOW FOR TAS QUEUE

PROGRAMMING

In addition to the TAS programming (☞ *Page 543*), do the following programming.

START	DESCRIPTION	DATA
CM51	Assign the destination of Call Forwarding by Overflow for TAS Queue.	• Y=26 Day Mode • Y=27 Night Mode • Y=28 Mode A • Y=29 Mode B (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No. E000 : Attendant Console EB000-EB127 : Digital Announcement Trunk No. assigned by CM10/CM14
CM41	Specify the timing of Call Forwarding by Overflow for TAS Queue.	• Y=0 (1) 42 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
CM51	When a call is forwarded to the VMS/station/ Attendant Console by Overflow for TAS Queue, assign the Call Forwarding setting station number, which is sent to the destination.	• Y=30 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
CM49	When a Digital Announcement Trunk is set as the destination of Call Forwarding, set the function of the Digital Announcement Trunk as announcement service for Overflow for TAS Queue.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. (EB002-EB127) assigned by CM10/CM14 (2) 1800: Announcement Service for Overflow for TAS Queue
END		

HARDWARE REQUIRED

When a DAT is used as the destination of Call Forwarding:
DAT card or MP card (built-in DAT)

QUEUE LIMIT FOR TAS

PROGRAMMING

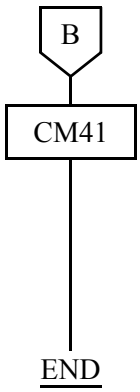
In addition to the TAS programming (☞ Page 543), do the following programming.

START	DESCRIPTION	DATA
CM64	Assign the number of Queue Limit for TAS to each mode and tenant.	• Y=3 Day Mode • Y=4 Night Mode • Y=5 Mode A • Y=6 Mode B (1) 00-63: Tenant No. (2) 01-99 : 1-99 lines NONE◀: No limit
CM76	Specify the terminating system as TAS.	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) D13: TAS
	Specify whether the incoming call of each DID number is restricted by Queue Limit for TAS. **NOTE:** *When there are two or more DID numbers for one tenant, and if you want to set the Queue Limit only for one DID number, set "0" to the DID number, and set "3" for the other DID numbers.* *If you want to set the Queue Limit for one DID number and the other DID numbers concurrently, set "0" to the DID number, and set "2" to the other DID numbers.*	• Y=16 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : Restricted 2 : Not restricted (countable for Queue Limit) 3◀: Not restricted (uncountable for Queue Limit)
A		

A

	DESCRIPTION	DATA
CM51	Assign the destination of Call Forwarding by Queue Limit for TAS.	• Y=26 Day Mode • Y=27 Night Mode • Y=28 Mode A • Y=29 Mode B (1) 00-63: Trunk No. (2) X-XXXXXXXX: Station No. E000 : Attendant Console EB000-EB127 : Digital Announcement Trunk No. assigned by CM10/CM14
	When a call is forwarded to the VMS/station/ DAT/Attendant Console by Queue Limit for TAS, assign the Call Forwarding setting station number, which is sent to the destination.	• Y=30 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
CM49	When a Digital Announcement Trunk is set as the destination of Call Forwarding, set the function of the Digital Announcement Trunk as announcement service for Queue Limit for TAS.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. (EB002-EB127) assigned by CM10/CM14 (2) 1800: Announcement Service for Queue Limit for TAS
CM08	Provide the system with reset of the Queue Limit counter for TAS per tenant. The system will reset the counter when the following operation has not occurred for about one hour. • Increase/decrease of counter • Incoming calls restricted by Queue Limit • Call Forwarding to a station/Attendant/ DAT by Queue Limit	(1) 602 (2) 1◀: To provide

B



DESCRIPTION	DATA
Specify the timing of Call Forwarding by Queue Limit for TAS.	• Y=0 (1) 42 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.

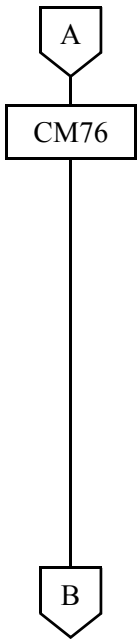
HARDWARE REQUIRED

When a DAT is used as the destination of Call Forwarding:
DAT card or MP card (built-in DAT)

TRUNK ANSWER ANY STATION (TAS)

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign a Trunk Restriction Class to each station.	• Y=01 (1) X-XXXXXXXX: Station No. (2) X Z Z: 1-8: Night Trunk Restriction Class 1: Unrestricted (RCA) 2: Non-Restricted 1 (RCB) 3: Non-Restricted 2 (RCC) 4: Semi-Restricted 1 (RCD) 5: Semi-Restricted 1 (RCE) 6: Restricted 1 (RCF) 7: Restricted 2 (RCG) 8: Fully Restricted (RCH)
	Assign Service Restriction Class B for the TAS to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow TAS service in Service Restriction Class B assigned by CM12 Y=02.	• Y=53 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CM30	Assign the TAS to the terminating system in Day/Night Mode/Mode A/Mode B for required trunks.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. (2) 03: Trunk-Direct Appearances + TAS 08: Dial-in 13: TAS 18: ISDN Indial
	Assign the TAS group number to the trunks assigned by CM30 Y=02/03/40/41.	• Y=17 (1) 000-255: Trunk No. (2) 00-63: TAS group No.
A		



DESCRIPTION	DATA
Assign the data for interpreting the digits received. CM35 Y=18 must be set to "0" (Received Digits Conversion is to be provided).	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) X-XXXXXXXX: Station No. to be terminated DXX: Change Terminating System to: D03: Trunk-Direct Appearances + TAS D13: TAS

B

	DESCRIPTION	DATA
CM53	Specify the function of each type of TAS within a system.	• Y=0-4 TAS Answer A-E (1) Type of Call 0: C.O. Incoming Call 1: Tie Line/DID 3: C.O. Incoming Call in Night Mode 4: Overflowed DIT Call (2) 0 : Cannot be answered 1◀: Can be answered (1) 7: A call terminated to different tenant (2) 0 : Can be answered 1◀: Cannot be answered
CM20	Assign the access code for each type of TAS (TAS Answer A-E) assigned by CM53.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A047: TAS Answer A A048: TAS Answer B A049: TAS Answer C A050: TAS Answer D A051: TAS Answer E
CM63	Specify the tenants allowing TAS Answer between them.	• Y=0 (1) XX ZZ XX: 00-63: Tenant No. of TAS Answer station ZZ : 00-63: Tenant No. of Trunk (2) 0 : Allow 1◀: Restricted

Y \ (1)		0	1	3	4	7
0	TAS Answer A	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀
1	TAS Answer B	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀
2	TAS Answer C	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀
3	TAS Answer D	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀
4	TAS Answer E	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀

END

To provide the External TAS Indicator via DK card:

START	DESCRIPTION	DATA
CM10	Assign the card number of DK to required LEN. **NOTE:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) 000-763: LEN (2) E800-E831 : DK Card No. For PIM0/1 : E800-E807 For PIM2/3 : E808-E815 For PIM4/5 : E816-E823 For PIM6/7 : E824-E831
CM14	Assign the card number of DK to required LEN. **[Series 3200 R6.2 software required]** **NOTE:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) E800-E831 : DK Card No. For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
CM44	Assign the TAS Group number assigned by CM30 Y=17 to circuit number of DK card. **NOTE:** *MP built-in External Equipment Interface is not available for External TAS Indicator connection.*	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. (2) 13XX XX: 00-63: TAS Group No. 00-63 assigned by CM30 Y=17
CM59	Specify the indication pattern on External TAS Indicator.	(1) 00 (2) 01 : 30 IPM (1 second ON/OFF) 02 : 60 IPM (0.5 seconds ON/OFF) 03 : 120 IPM (0.25 seconds ON/ OFF) 07 : Steady on NONE◀: 120 IPM (0.25 seconds ON/ OFF)
END		

To provide the telephone set for TAS Indication:

START	DESCRIPTION	DATA
CM10	Assign the TAS Buzzer number (Telephone set for TAS Indication) to required LEN. The TAS Buzzer number must correspond to the TAS Group number assigned by CM30 Y=17. E600-E663 →TAS Group 00-63	(1) 000-763: LEN (2) E600-E663: TAS Buzzer No.
CM14	Assign the TAS Buzzer number (Telephone set for TAS Indication) to required LEN. The TAS Buzzer number must correspond to the TAS Group number assigned by CM30 Y=17. **[Series 3200 R6.2 software required]** E600-E663 →TAS Group 00-63	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) E600-E663: TAS Buzzer No.
END		

HARDWARE REQUIRED

To provide the External TAS Indicator:
– DK card
– Indicator
Requirement for External Indicator
Control Method: Ground/Battery (-24 V) (Maximum 125 mA)
Type : Visual and/or Audible type with volume control

To provide the telephone set for TAS Indication:
– LC card
– Conventional telephone sets

NO CID CALL ROUTING

[Series 3600 software required]

- For Direct Inward Dialing calls

START	DESCRIPTION	DATA
CM35	Assign the indication of reason why the calling number is not informed from network to trunk route.	• Y=133 (1) 00-63: Trunk Route No. (2) 0: To indicate
CM76	Assign whether the call terminating method is specified for DID incoming call with no CLI.	• Y=33 (For Day Mode) • Y=35 (For Night Mode/Mode A/Mode B) (1) 000-999: Block No. (2) 0 : Specified when reason of the incoming call with no CLI is "privacy" 1 : Specified for all incoming calls with no CLI 3◀: Not specified
	NOTE: *Assign the call terminating method by CM76 Y=34/36 when this command is set to 0/1.*	
	Assign the specification of the call terminating method for DID incoming call with no CLI.	• Y=34 (For Day Mode) • Y=36 (For Night Mode/Mode A/Mode B) (1) 000-999: Block No. (2) 0 : To transfer to the DAT/another station/ Attendant console (assigned by CM51 Y=33) 1 : To reject the call termination 2 : To terminate the D^{term} with unusual LED indication/unusual ringer tone/ unusual ringer pattern (assigned by CM76 Y=37, 38, 39) 3◀: To terminate as usual
A		

A

	DESCRIPTION	DATA
CM51	Assign the destination of call forwarding when the calling number is not informed from network. **NOTE 1:** *This command needs to be set when CM76 Y=34/36 is set to 0.* **NOTE 2:** *Assign the function of Digital Announcement Trunk by CM49 Y=00 when this command is set to Digital Announcement Trunk No.*	• Y=33 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No. E000: Attendant EB000-EB127: Digital Announcement Trunk No. assigned by CM10/CM14 NONE◀: No data
CM49	Specify the function of Digital Announcement Trunk. **NOTE:** *This command is effective only when CM51 Y=33 is set to Digital Announcement Trunk No.*	• Y=00 (1) 000-127: Digital Announcement Trunk No. assigned by CM51 Y=33 (2) 2200 : Announcement Service for no Caller-ID NONE◀: No data
CM41	Specify the duration of an Announcement for no Caller-ID. **NOTE:** *If the destination of call forwarding is assigned for Digital Announcement Trunk by CM51 Y=33, when time out occurs the trunk is released.*	• Y=0 (1) 45: Announcement Service Timer (2) 01-99 : [0-4 seconds]-[392-396 seconds] (4 seconds increments) NONE◀: 16: 60-64 seconds
CM76	Specify a distinctive LED indication on D^{term} for DID incoming call with no CLI.	• Y=37 (1) 000-999: Block No. (2) 0 : Green (120 IPM) 1◀: Red (120 IPM)

NOTE: *This command is effective on the following conditions.*
- *CM35 Y=32 is set to 1.*
- *CM76 Y=34, 36 are set to 0 or 2, and D^{term} receives the incoming call.*

B

B

CM76

DESCRIPTION	DATA
Specify the interval of ringing tone for DID incoming call with no CLI. **NOTE 1:** *Assign this command when the terminal destination is SLT or D^{term}.* **NOTE 2:** *This command is effective when CM76 Y=34, 36 is set to 0 or 2.*	• Y=38 (1) 000-999: Block No. (2) 0 : 0.5 seconds ON-0.5 seconds OFF (D^{term}) 1 second ON-2 seconds OFF (SLT) 1 : 0.5 seconds ON-0.5 seconds OFF - 0.5 seconds ON-1.5 seconds OFF (D^{term}) 0.4 seconds ON-0.2 seconds OFF - 0.4 seconds ON-2 seconds OFF (SLT) 2 : 1 second ON-2 seconds OFF (D^{term} or SLT) 3◀: As per CM76 Y=22 **[For North America]**
Specify a D^{term} Ringer Tone Pattern for DID incoming call with no CLI. **NOTE 1:** *This command is effective when CM76 YY=34, 36 is set to 0 or 2, and D^{term} receives the incoming call.* **NOTE 2:** *For details of the Ringer Tone Pattern, see CM65 Y=40.*	• Y=39 (1) 000-999: Block No. (2) 0 : Ringer Tone Pattern 0 1 : Ringer Tone Pattern 1 2 : Ringer Tone Pattern 2 3 : Ringer Tone Pattern 3 4 : Ringer Tone Pattern 4 5 : Ringer Tone Pattern 5 6 : Ringer Tone Pattern 6 7◀: As per CM76 Y=23
Specify a kind of call termination indicator key/lamp on Attendant console for DID incoming call with no CLI. **NOTE:** *The command is effective when CM76 Y=34, 36 is set to 0, and the destination of call forwarding is Attendant console.*	• Y=40 (1) 000-999: Block No. (2) 0 : C.O. Incoming Call 0 1 : C.O. Incoming Call 1 2 : C.O. Incoming Call 2 3 : C.O. Incoming Call 3 4 : C.O. Incoming Call 4 5 : C.O. Incoming Call 5 6 : C.O. Incoming Call 6 7◀: As per CM35 YY=15

END

- For Ring Down calls

START	DESCRIPTION	DATA
CM35	Assign the indication of reason why the calling number is not informed from network to trunk route.	• Y=133 (1) 00-63: Trunk Route No. (2) 0: To indicate
	Assign whether the call terminating method is specified for incoming call with no CLI. **NOTE:** *Assign the call terminating method by CM35 Y=255/257 when this command is set to 0/1.*	• Y=254 (For Day Mode) • Y=256 (For Night Mode/Mode A/Mode B) (1) 00-63: Trunk Route No. (2) 0 : Specified when reason of the incoming call with no CLI is "privacy" 1 : Specified for all incoming call with no CLI 3◀: Not specified
	Assign the specification of the call terminating method for incoming call with no CLI.	• Y=255 (For Day Mode) • Y=257 (For Night Mode/Mode A/Mode B) (1) 00-63: Trunk Route No. (2) 0 : To transfer to the DAT/another station/Attendant console (assigned by CM51 Y=33) 1 : To reject the call termination 2 : To terminate the D^{term} with unusual LED indication (assigned by CM35 Y=258) 3◀: To terminate as usual
A		

A

	DESCRIPTION	DATA
CM51	Assign the destination of call forwarding when the calling number is not informed from network. **NOTE 1:** *This command needs to be set when CM35 Y=255/257 is set to 0.* **NOTE 2:** *Assign the function of Digital Announcement Trunk by CM49 Y=00 when this command is set to Digital Announcement Trunk No.*	• Y=33 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No. E000: Attendant EB000-EB127: Digital Announcement Trunk No. assigned by CM10/CM14 NONE◀: No data
CM49	Specify the function of Digital Announcement Trunk. **NOTE:** *This command is effective only when CM51 Y=33 is set to Digital Announcement Trunk No.*	• Y=00 (1) 000-127: Digital Announcement Trunk No. assigned by CM51 Y=33 (2) 2200 : Announcement Service for no Caller-ID NONE◀: No data
CM41	Specify the duration of an Announcement for no Caller-ID. **NOTE:** *If the destination of call forwarding is assigned for Digital Announcement Trunk by CM51 Y=33, when time out occurs the trunk is released.*	• Y=0 (1) 45: Announcement Service Timer (2) 01-99 : [0-4 seconds]-[392-396 seconds] (4 seconds increments) NONE◀: 16: 60-64 seconds
CM35	Specify a distinctive LED indication on D^{term} for incoming call with no CLI.	• Y=258 (1) 0 : Green (120 IPM) (2) 1◀: Red (120 IPM)

NOTE: *This command is effective on the following conditions.*
- *CM35 Y=32 is set to 1.*
- *CM35 Y=255, 257 are set to 0 or 2, and D^{term} receives the incoming call.*

END

HARDWARE REQUIRED

D^{term} with LCD and DLC card

OFF-HOOK ALARM

PROGRAMMING

START

CM13 — Provide Off-Hook Alarm for the required stations.

- Y=02
(1) X-XXXXXXXX: Station No.
(2) 0: To provide

CM51 — Assign the destination for Off-Hook Alarm to a station or Attendant Console.

- Y=12
(1) 00-63: Tenant No.
(2) X-XXXXXXXX: Station No.
E000 : Attendant Console

CM90 — If the Attendant Console is designated as the destination of Off-Hook Alarm by CM51 Y=12, assign Off-Hook Alarm to the ICI key.

- Y=00
(1) ATTCON No. (E000-E007) + [,] + Key No.
(2) F6066: Off-Hook Alarm

CM41 — Specify the timing for Off-Hook Alarm.

- Y=0
(1) 22
(2) 01-08: 4-32 seconds
(4 second increments)
If no data is set, default setting is 28-32 seconds.

CM12 — Specify Service Restriction Class C for Off-Hook Alarm to busy destination.

- Y=07
(1) X-XXXXXXXX: Station No. of destination
(2) 00-15◀: Service Restriction Class C

CM15 — Allow the Off-Hook Alarm call in Service Restriction Class C assigned by CM12 Y=07.

- Y=97, 98
(1) 00-15: Service Restriction Class C assigned by CM12 Y=07
(2) See left column.

Y		MEANING OF DATA
97	98	
0	0	UCD Call Waiting (CM08>212: 0) Call Waiting is automatically selected, if UCD is not provided in the system.
0	1	UCD (CM08>212: 1)
1	0	Call Waiting
1	1	Hunting ◀

END

OFF-PREMISES EXTENSIONS

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the station number of Long Line Circuit (LLC card) to required LEN. **NOTE:** *The station number must be assigned to the first LEN (Level 0), the second LEN (Level 1), the third LEN (Level 2) and the fourth LEN (Level 3) of each LT slot.*	(1) 000-763: LEN (2) X-XXXXXXXX: Station No.
CM14	Assign the station number of Long Line Circuit (LLC card) to required LEN. **[Series 3200 R6.2 software required]** **NOTE:** *The station number must be assigned to the first LEN (Level 0), the second LEN (Level 1), the third LEN (Level 2) and the fourth LEN (Level 3) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) X-XXXXXXXX: Station No.
CM12	Assign the Long Line Circuit (LLC card) to the station number. (INITIAL) **NOTE:** *When using Series 3600 software or later, a reset of the MP card is not required.* *When changing the data with online, the data is valid after the LLC card is unplugged and plugged in with two seconds or more interval.*	• Y=17 (1) X-XXXXXXXX: Station No. (2) 1 : Long Line Circuit (PN-4LLCB) 3◀: Short Line Circuit (PN-4LLCB)
CM13	Remove the PAD on Off-Premises Extensions.	• Y=09 (1) X-XXXXXXXX: Station No. (2) 0: No PAD
END		

HARDWARE REQUIRED

LLC card
-48 V Power Supply (PZ-PW122)

PAD LOCK

PROGRAMMING

(1) To change the Station Class with Station Authorization Code

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Authorization Code in Service Restriction Class A assigned by CM12 Y=02.	• Y=31 Authorization Code (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
	Allow Authorization Code operation after operating trunk call originating in Service Restriction Class A assigned by CM12 Y=02. **[Series 3900 software required]**	• Y=401 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 2 : Allow 7◀: Restricted
CM42	Specify the number of digits for Station Authorization Code.	(1) 73 (2) 01-08 : 1 digit-8 digits NONE◀: 4 digits
CM20	Assign the access code for Station Class change with Station Authorization Code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A230: Station Class change with Station Authorization Code
CM2B	Assign the temporary Trunk Restriction Class to be applied to each station after the station class is changed.	• Y=01 (1) X-XXXXXXXX: Station No. (2) 1-8: Trunk Restriction Class 1◀: Unrestricted (RCA) 2 : Non-Restricted 1 (RCB) 3 : Non-Restricted 2 (RCC) 4 : Semi-Restricted 1 (RCD) 5 : Semi-Restricted 2 (RCE) 6 : Restricted 1 (RCF) 7 : Restricted 2 (RCG) 8 : Fully-Restricted (RCH)
A		

	DESCRIPTION	DATA
A		
CM2B	Assign the temporary Service Restriction Class A/B/C to be applied to each station after the station class is changed.	• Y=02 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class A • Y=03 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class B • Y=04 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM08	Select the timing when the temporary service class returns to proper service class.	(1) 258 (2) 0 : When called number has been dialed 1◀: When station goes on hook
END		

(2) To set/change Station Authorization Code from each station

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Station Authorization Code Set/Change in Service Restriction Class A assigned by CM12 Y=02.	• Y=141 Station Authorization Code Set/Change (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Station Authorization Code Set/Change.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A231: Station Authorization Code Set/Change
CM08	Specify whether the mask indication (*) is provided for Station Authorization Code entry. **NOTE:** *When CM08>508 2nd data=0 (To provide) is set, the mask indication for Authorization Codes, Forced Account Codes and DISA codes are also provided.*	(1) 508 (2) 0 : To provide 1◀: Not provided
END		

NOTE: *One Station Authorization Code can be assigned per station.*

(3) To provide Pad Lock Set/Reset from the station

START	DESCRIPTION	DATA
CM2B	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class A
CM15	Allow Pad Lock Set/Reset by Station Authorization Code in Service Restriction Class A assigned by CM2B Y=02.	• Y=140 Pad Lock Set/Reset by Station Authorization Code (1) 00-15: Service Restriction Class A assigned by CM2B Y=02 (2) 0: Allow
CM20	Assign the access code for Pad Lock Set/Reset by Station Authorization Code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A232: Pad Lock Set by Station Authorization Code A233: Pad Lock Reset by Station Authorization Code
END		

(4) To set/clear/display Station Authorization Code on the MAT

START	DESCRIPTION	DATA
CM2B	Set/clear/display Station Authorization Code.	• Y=00 (1) X-XXXXXXXX: Station No. (2) X-XXXXXXXX: Station Authorization Code CCC : Clear
END		

PERIODIC TIME INDICATION TONE

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with this feature. And specify availability of this service on Tie Line call.	(1) 135: On outgoing C.O. line call (2) 0: To provide (1) 136: On outgoing Tie line call (2) 0 : To provide 1◀: Not provided
CM12	Assign Service Restriction Class B for this feature to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Periodic Time Indication Tone in Service Restriction Class B assigned by CM12 Y=02.	• Y=61 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CM13	Assign required stations as Ordinary Station. If assigned to 0 (Analog Data Station), this feature will not be applied to the station.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 1◀: Ordinary Station
CM41	Specify the timing interval for Periodic Time Indication Tone.	• Y=0 (1) 09 (2) 01-17: 32-548 seconds (32 second increments) If no data is set, the default setting is 192-196 seconds.
END		

POOLED LINE ACCESS

PROGRAMMING

START	DESCRIPTION	DATA
CM11	Assign the Pooled Lines (Virtual Line station number) to the required Virtual LEN. The Virtual LENs have no relation with the physical LEN used in CM10/CM14. Therefore, any Virtual LENs can be assigned to each Virtual Line station number. However, the Virtual Line station number should be different from the Single Line number assigned by CM10/CM14.	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Line Station No.
CM90	Assign the Pooled Line keys to each D^{term}. Pooled Lines 00-63 can answer a call terminated to tenants 00-63 respectively, and can originate a call using trunk routes 00-63 respectively.	• Y=00 (1) My Line No. + [,] + Key No. (2) F4100-F4163: Pooled Line 00-63
A		

Pooled Line	Origination	Termination
00	Trunk Route 00	Tenant 00
01	01	01
≀	≀	≀
63	Trunk Route 63	Tenant 63

	DESCRIPTION	DATA
A		
CM30	Assign a trunk route number and Tenant No. to the trunks in the Pooled Line group. **NOTE:** *Refer to the Command Manual for the Resident System Program.*	• Y=00 Trunk Route Allocation (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. **NOTE**
		• Y=01 Allocation of tenants to trunks (1) 000-255: Trunk No. (2) 00-63: Tenant No. (00)
	Specify the terminating system, including TAS, of the trunks in the Pooled Line group.	• Y=02 Terminating System in Day Mode • Y=03 Terminating System in Night Mode • Y=40 Terminating System in Mode A • Y=41 Terminating System in Mode B (1) 000-255: Trunk No. (2) 03: Trunk-Direct Appearances and TAS 10: Attendant Console + TAS 12: Attendant Console + Trunk Direct Appearances + TAS
CM08	Specify whether call terminating is indicated on the Pooled Line keys assigned by CM90>F4100-F4163.	(1) 116 (2) 0 : Available 1◀: Not available
END		

HARDWARE REQUIRED

D^{term} and DLC card

PRIORITY CALL

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Priority Call to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Priority Call in Service Restriction Class A assigned by CM12 Y=02.	• Y=17 Priority Call 0 • Y=18 Priority Call 1 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Priority Calls 0 and 1 respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A088: Priority Call 0 A089: Priority Call 1
CM08	Specify the destination for Priority Calls 0 and 1.	(1) 250: For Priority Call 0 (2) 0 : Same Station as Off-Hook Alarm 1◀: Attendant Console (1) 251: For Priority Call 1 (2) 0 : Same station as Off-Hook Alarm 1◀: Attendant Console
CM90	If CM08>250/251 is set to “1”, assign the Priority Calls 0 and 1 to any Priority Call Keys on DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + , + Key No. (2) F6054: Priority Call 0 F6055: Priority Call 1
CM51	If CM08>250/251 is set to “0”, assign the destination of Priority Calls 0 and 1 to the desired station.	• Y=12 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
END		

PRIVACY

PROGRAMMING

To provide the Privacy feature for each station:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XXZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Restrict Privacy Release in Service Restriction Class B assigned by CM12 Y=02.	• Y=63 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 0: Restricted
END		

To provide the Privacy Release feature for each station:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B to each station.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XXZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Privacy Release in Service Restriction Class B assigned by CM12 Y=02.	• Y=63 (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CM12	Assign Service Restriction Class C to each station.	• Y=07 (1) X-XXXXXXXX: My Line No. (2) XX: 00-15◀: Service Restriction Class C
CM15	Specify the way of Privacy Release.	• Y=182 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0 : Direct Privacy Release 1◀: Manual Privacy Release
CM08	When providing the Privacy Release feature which does not use My line of the third party, set this data to 0. **[Series 3200 R6.1 software required]**	(1) 522 (2) 0: To provide
END		

PRIVATE LINES

PROGRAMMING

When providing Private Lines for a single line or D^{term}, do the following Trunk-Direct Appearances programming.

START	DESCRIPTION	DATA
CM12	Assign the trunks to be seized on a per-station basis.	• Y=16 (1) X-XXXXXXXX: Station No. (2) D000-D255: Trunk No.
CM35	Specify the designated seizure of trunks on a per-trunk route basis.	• Y=98 (1) 00-63: Trunk Route No. (2) 0 : Private Lines 1◀: No Private Lines
CM42	Specify the number of times to hunt through the trunks within the trunk route.	(1) 08 (2) 01-16 : One time-16 times NONE◀: Not Seized If data is not set, the default setting is 00 (no seizure when the designated trunk is busy). To assign default setting, assign “CCC”.
END		

PROPRIETARY MULTILINE TERMINAL

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the D^{term} station number to the associated LEN. **NOTE 1:** *When DLC card is accommodated, the D^{term} station number must be assigned for the all lines of the card.* **NOTE 2:** *When the following features are used with PN-AP00-B with AP00 program, do not assign 5 or more digits station number.* • *SMDR/PMS* • *Front Desk Instrument (D^{term})*	(1) 000-763: LEN (2) FX-FXXXXXXXX: D^{term} Station No. X-XXXXXXXX represents My Line No.
CM14	Assign the D^{term} station number to the associated LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *When DLC card is accommodated, the D^{term} station number must be assigned for the all lines of the card.* **NOTE 2:** *When the following features are used with PN-AP00-B with AP00 program, do not assign 5 or more digits station number.* • *SMDR/PMS* • *Front Desk Instrument (D^{term})*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) FX-FXXXXXXXX: D^{term} Station No. X-XXXXXXXX represents My Line No.
CM12	Allow the accommodation of Single Line Telephone to D^{term} multiline, if required (Assignment for Single Line Telephone only).	• Y=05 (1) X-XXXXXXXX: Station No. (2) 0: Accommodated
CM90	Assign the station numbers, trunk numbers or service feature access keys on each D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) Refer to Command Manual (CM90)
A		

A

	DESCRIPTION	DATA
CM12	Specify the TAPI ADAPTER mode of D^{term}. **[Series 3200 R6.1 software required]** **NOTE 1:** *When using D^{term} 65 TAPI ADAPTER on D^{term} 75, set "0".* **NOTE 2:** *When the TAPI ADAPTER is not used, set "3".* **NOTE 3:** *For PN-2DLC/4DLC cards, this data must be assigned to the first LEN (Level 0) of each card. For 8DLC cards, this data must be assigned to the first LEN (Level 0) and the fifth LEN (Level 4) of each card.*	• Y=17 (1) X-XXXXXXXX: My Line No. (2) 0 : D^{term} 65 TAPI ADAPTER on D^{term} 75 (D^{term} Series E) 3◀: Not used
	Specify the kind of D^{term}. **NOTE:** *After the 2nd data of CM12 Y=24 is changed, pull out and reconnect the modular connector of the D^{term}.*	• Y=24 (1) X-XXXXXXXX: My Line No. (2) 0 : 24 Line/Trunk/Feature keys + 8/12 One Touch keys 7◀: 16 Line/Trunk/Feature keys + 16/20 One Touch keys
CM90	Specify whether call termination on each line key is indicated on the Call Indicator Lamp or not.	• Y=05 (1) My Line No. + [,] + Key No. (2) 0 : Not indicated 1◀: To indicate
CM08	Assign the Outgoing Call Preset/Answer Preset functions to D^{term}, if required.	(1) 145 (2) 0 : Available 1◀: Not available
	Specify whether the answer key rings on TAS and Pooled Line or not.	(1) 116 (2) 0 : Available 1◀: Not available
CM41	Specify the Delayed Ringing timing.	• Y=1 (1) 09 (2) 01-10: 2-20 seconds (2 second increments) If no data is set, the default setting is 10 seconds.

B

	DESCRIPTION	DATA
B		
CM30	Provide Trunk-Direct Appearances to the trunk number.	• Y=18 (1) 000-255: Trunk No. (2) 0: To provide
END		

To provide the Digital Single Line on D^{term}, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Disable Dial Tone Activation when pressing one-touch speed key while terminal is idle.	• Y=87 One-Touch activates DT when Terminal Idle (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0 : Remain Idle 1 ◀: Off Hook and Dial Tone
CM90	Assign and delete feature keys. **NOTE:** *Use Key number 93 for Redial key. Use Key number 96 for Flash key.* Prime line should be assigned to Key 9. Digital Single Line is a D^{term} and can use any key assigned in CM90. However, the Digital Single Line Terminal has no LEDs, speaker, or microphone. Assign any features that can be used without these devices.	• Y=00 Key Data (1) X-XXXXXXXX: My Line No. + [,] + Key No. (2) F1100-F1199: Station Speed Dialing 00-99 F1012 : [CNF] Conference key This key is required to program speed dial keys. F0069 : Last number redial (Key No. 93) F1004 : [TRF] Transfer key (Key No. 96)
CM93	Assign prime line to My Line.	(1) X-XXXXXXXX: My Line No. (2) X-XXXXXXXX: Prime Line
END		

If the D^{term} Series i is not used for a certain time, the luminosity of a lamp on the D^{term} can be lower automatically for the power saving.
To provide the power saving for the D^{term} Series i, do the following programming.

NOTE: *This data is effective only for the D^{term} Series i. For D^{term}IP, this data is not effective.*

START

END

	DESCRIPTION	DATA
CM12	Assign the time to start the power saving to the required stations. **[Series 3200 R6.1 software required]**	• Y=44 (1) X-XXXXXXXX: Station No. (2) 0 : 1 minute later 1 : 2 minutes later 2 : 4 minutes later 3 : 8 minutes later 4 : 16 minutes later 5 : 32 minutes later 6 : 64 minutes later 7◀: Not use the power saving

To provide D^term Series i 16LD/16LD-R ADM, do the following programming.

[Series 3300 software required]

START	DESCRIPTION	DATA
CM12	Specify D^term Series i 16LD for the D^term type.	• Y=28 (1) X-XXXXXXXX: My Line No. (2) 0: D^term Series i 16LD
	Assign Service Restriction Class A to required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Specify the indication when a station is set to the Line Key of D^term Series i 16LD.	• Y=207 Indication when a station is set to the Line Key of D^term Series i 16LD (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Station Number 1 ◀: Station Name
CM30	Assign Trunk Indication Code to each trunk, if required. **NOTE:** *By loading Resident System Program, Trunk Identification Codes are assigned as follows.* *1XXX* *XXX: 000-255: Trunk Number*	• Y=19 (1) 000-255: Trunk No. (2) XXXX: Trunk ID Code **NOTE**
CM35	Assign a trunk name number to each trunk route, if required.	• Y=03 (1) 00-63: Trunk Route No. (2) 00-14: Trunk Name No. 00-14 15 ◀: Kind of trunk route assigned by CM35 Y=00 is displayed 16-63: Trunk Name No. 16-63
A		

A

	DESCRIPTION	DATA
CM35	Specify the indication when a trunk is set to the Line Key of D^{term} Series i 16LD.	• Y=201 (1) 00-63: Trunk Route No. (2) 0 : Trunk Route Name (4 characters) 1 : Trunk Route Name (4 characters) + Trunk No. (4 digits) 3 ◀: Trunk Route No. (2 digits) + Trunk No. (4 digits)
CM74	Assign the stored number to each Memory Slot number, if required.	• Y=0 (1) X YY Z X : 0-3: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) Stored No.: Outgoing Call Access Code (Maximum 4 digits) + [,] + Called Party's No. (Maximum 26 digits)/Station No. (Maximum 8 digits) NONE◀: No data
	Assign the station name to be displayed to each Memory Slot number, by character codes or character, if required.	• Y=1 (1) X YY Z X : 0-3: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character Code 20-7F (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=2 (1) X YY Z X : 0-3: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character (Maximum 16 characters) NONE◀: No data

B

B

	DESCRIPTION	DATA
CM77	Enter the desired station user's name to each station number by CM77 Y=0 or CM77 Y=1, if required.	• Y=0 By Character Code (1) X-XXXXXXXX: Station No. (2) Character Code 20-7F (Maximum 32 digits) See APPENDIX B: Character Code Table. ☞ Page B2 • Y=1 By Character (1) X-XXXXXXXX: Station No. (2) A-Z, 0-9: Character (Maximum 16 characters)
	Assign the desired trunk name to each trunk route by CM77 Y=2 or CM77 Y=3, if required.	• Y=2 By Character Code (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) Character Code 20-7F (Maximum 8 digits) See APPENDIX B: Character Code Table. ☞ Page B2 • Y=3 By Character (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) A-Z, 0-9: Character (Maximum 4 characters)
CM90	Assign the station numbers, trunk numbers or service feature access keys on each D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) Refer to Command Manual (CM90)

C

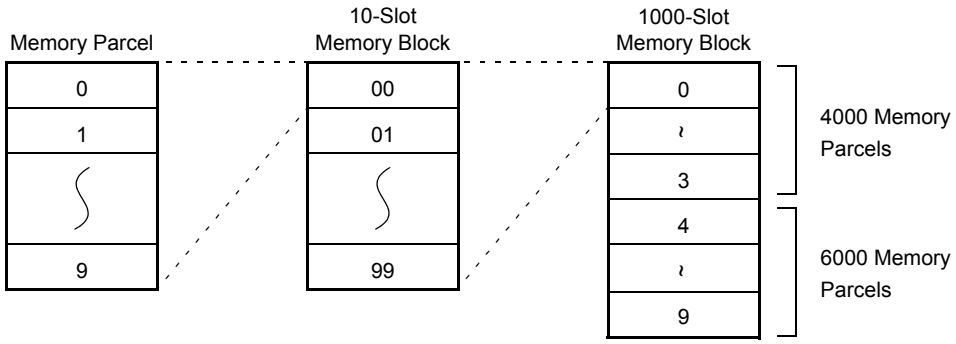
C

	DESCRIPTION	DATA
CM94	When connecting D16 (LD)-R ADM to D^{term} Series i 16LD and using it as One Touch keys/ Directories, allocate the memory area for D^{term} One Touch keys to each station.	(1) X-XXXXXXXX: My Line No. (2) W XX 0 ZZ W : 0-9: 1000-Slot Memory Block No. XX: 00-99: 10-Slot Memory Start Block No. ZZ : 01/02: Number of 10-Slot Memory Blocks (10 memories/20 memories) NONE◀: No data

NOTE 1: *To provide the D16 (LD)-R ADM with D^{term} Series i 16LD, Series 3500 software is required.*

NOTE 2: *Station Speed Dialing and D^{term} One Touch keys uses the common memory area. Be sure to allocate the different memory area by CM94 from the memory area set by CM73.*

NOTE 3: *If the station number is assigned to One Touch keys using 1000-Slot Memory Block number 4-9, the lamp does not show the busy state.*



CM12	Provide to send the indication data to Line Key LCD of D^{term} Series i 16LD.	• Y=29 (1) X-XXXXXXXX: My Line No. (2) 0: To send indication data

END

AUTOMATIC IDLE RETURN

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with this feature.	(1) 172 (2) 1◀: Available
	Specify whether this feature is available or not, in case the ORT time out occurs after the Redial/Speaker key is pressed with the D^{term} is on-hook condition. **[Series 3600 software required]**	(1) 567 (2) 0 : Not available 1◀: Available
END		

HARDWARE REQUIRED

D^{term} and DLC card

CALLING NAME AND NUMBER DISPLAY

PROGRAMMING

Refer to ALPHANUMERIC DISPLAY. ☞ *Page 25*

HARDWARE REQUIRED

D^{term} and DLC card

DYNAMIC DIAL PAD

PROGRAMMING

Do the following programming to make an outgoing call. Press any key on the dial pad of a D^{term}, without pressing a Speaker key or going off hook.

START	DESCRIPTION	DATA
CM93	Assign a Prime line to the D^{term}.	(1) X-XXXXXXXX: My Line No. (2) X-XXXXXXXX: Station No.
CM12	Assign Service Restriction Class A to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Dynamic Dial Pad in the Service Restriction Class A assigned by CM12 Y=02.	• Y=120 (1) 00-15: Service Restriction Class A (2) 0: Allow
END		

GROUP FEATURE KEY

[Series 3500 software required]

PROGRAMMING

To provide the Group Feature Key for the sub line of D^{term}, do the following programming.

START	DESCRIPTION	DATA
CM90	Provide Group Feature Key for the sub line of D^{term}, when the D^{term} belongs to the group of stations and accommodates the station number/My line number of group members to the D^{term} multiline as the sub line. **NOTE:** *Do not set the second data 0 to the My line number of D^{term}s.*	• Y=06 (1) Sub Line No. + [,] + Key No. (2) 0 : To provide 1◀: Not provided
CM08	Specify the operation of Group Feature Key on D^{term} when an incoming call/holding call cannot be seized with My line because it is used by the other D^{term} on multiline.	(1) 557 (2) 0 : Group Feature Key is unavailable 1◀: Group Feature Key is available by seizing Sub line
	Specify whether the service which is set to a group member station is effective when the group members are called by Group Feature Key. **[Series 3800 software required]** **NOTE:** *When the second data of CM08>585 is set to 0, the following services are effective.* *Call Forwarding-All Calls/Split Call Forwarding-All Calls/Call Forwarding-All Calls of Mobility Access/Do Not Disturb/Transfer the call to station set Do Not Disturb (CM51 Y=10)/Call Forwarding-Logout*	(1) 585 (2) 0 : Effective 1◀: Ineffective
END		

MULTIPLE LINE OPERATION

PROGRAMMING

START	DESCRIPTION	DATA
CM90	Specify whether to enable ringing on call termination to flexible line keys and feature keys.	• Y=01 (1) My Line No. + [,] + Key No. (2) 0 : Disabled 1◀: Enabled
END		

HARDWARE REQUIRED

D^{term} and DLC card

MUTE KEY

PROGRAMMING

START	DESCRIPTION	DATA
CM90	Assign the MUTE Key to the D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F5013: MUTE Key
END		

HARDWARE REQUIRED

D^{term} Series E and DLC card

MY LINE NUMBER DISPLAY

[Series 3400 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow the My Line number display in the Service Restriction Class A assigned by CM12 Y=02.	• Y=210 (1) 00-15: Service Restriction Class A (2) 0: Available
CM08	Specify whether Calling number will be displayed when a calling station abandons a call before the call is answered.	(1) 311 (2) 0 : Not available 1 ◀: Available
CM12	After the above data setting is completed, allow the system to request the My Line number information of D^{term} station by CM12 Y=29. The My Line number information is sent to a D^{term} control section of the system according to CM15 Y=210 data setting. When sending the My Line number information is completed, 2nd data of CM15 Y=210 returns to 1 from 0.	• Y=29 (1) X-XXXXXXXX: Station No. (2) 0 : Allow 1 ◀: Not allowed
END		

NOTE 1: *When you change CM15 Y=210 data under On-line mode (without CM12 Y=29 data setting), you need to wait several hours until the My Line number display is activated.*

NOTE 2: *To activate the My Line number display immediately after setting CM15 Y=210 under On-line mode, set 2nd data of CM12 Y=29 to 1(Request a D^{term} station to send the My Line number).*

NOTE 3: *The My Line number display is activated immediately after plugging or unplugging D^{term} cable or resetting the system.*

HARDWARE REQUIRED

D^{term} and DLC card

PRESET DIALING

[Series 3600 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Preset Dialing to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Preset Dialing on D^{term} in Service Restriction Class A assigned by CM12 Y=02.	• Y=212 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 1◀: Restricted
CM12	Specify that the Soft Key feature is available to each D^{term}.	• Y=22 (1) X-XXXXXXXX: My Line No. (2) 0◀: Available
END		

HARDWARE REQUIRED

D^{term} with LCD and DLC card

PRIME LINE PICKUP

PROGRAMMING

START	DESCRIPTION	DATA
CM93	Assign station or trunk to desired D^{term} station as Prime Line. It is recommended that the My Line be assigned as the Prime Line.	(1) X-XXXXXXXX: My Line No. (2) X-XXXXXXXX: Station No. **NOTE 1, NOTE 2** D000-D255 : Trunk No.
END		

NOTE 1: *My Line number or Virtual Line number can be assigned to the Prime Line. However, the data station and Single Line Telephone cannot be assigned to the Prime Line.*

NOTE 2: *By loading the Resident System Program, the My Line number is assigned as Prime Line number for all D^{term}s.*

HARDWARE REQUIRED

D^{term} and DLC card

RECALL KEY

PROGRAMMING

For internal call:
RECALL Key is initially assigned to all D^{term}s.

For outside call:

START	DESCRIPTION	DATA
CM35	Assign the data for hookflash signal sending to the route number assigned by CM30 Y=00.	• Y=16 (1) 00-63: Trunk Route No. (2) 1◀: Sending
CM90	Assign a Flash Over Trunk key to the required D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1009
CM41	Specify duration of the hookflash signal to trunks.	• Y=2 (1) 17 (2) 02-30: 128-1920 ms. (64 ms. increments) If no data is set, default setting is 576-640 ms.
END		

HARDWARE REQUIRED

D^{term} and DLC card

RELAY CONTROL FUNCTION KEY

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign the DK card to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.* **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*	(1) 000-763: LEN (2) E800-E831 : DK Card No. For PIM0/1 : E800-E807 For PIM2/3 : E808-E815 For PIM4/5 : E816-E823 For PIM6/7 : E824-E831
CM14	Assign the DK card to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.* **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) E800-E831 : DK Card No. For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
CM44	Assign the function of relay control via D^{term} to the DK.	(1) XX Y XX: 00-31: DK Card No. E800-E831 assigned by CM10/CM14 Y : 0-3: Circuit No. 313: MP Built-in External Equipment Interface (2) 1500: Relay Control (On/Off) Function Key via D^{term}
CM90	Assign the Relay Control (ON/OFF) key on the required D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F7 XX Z XX: 00-31: DK Card No. assigned by CM44 Z : 0-3: Circuit No. assigned by CM44
END		

HARDWARE REQUIRED

DK card or MP card (built-in DK)
External equipment provided locally
D^{term} and DLC card

RING FREQUENCY CONTROL

PROGRAMMING

To control the ring frequency by system data programming:

START	DESCRIPTION	DATA
CM08	Enable the frequency control by system data programming. (INITIAL)	(1) 390 (2) 1◀: As per CM15 Y=83, 84, 93, CM35 Y=34, 164, CM65 Y=40
CM12	Assign Service Restriction Class C to each station.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Specify the Ringer Tone Pattern of the D^{term} for terminating calls from a station in the Service Restriction Class C assigned by CM12 Y=07.	• Y=83, 84, 93 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) See the table below. **[Series 3200 R6.1 software required]**

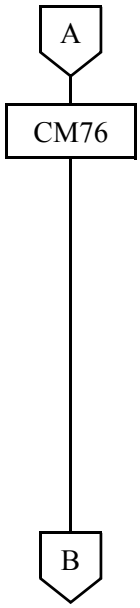
Y=83	Y=84	Y=93: 0	Y=93: 1◀
0	0	Ringer Tone Pattern 3	Ringer Tone Pattern 7
0	1◀	Ringer Tone Pattern 6	Ringer Tone Pattern 1
1◀	0	Ringer Tone Pattern 5	Ringer Tone Pattern 0
1◀	1◀	Ringer Tone Pattern 4	Ringer Tone Pattern 2

CM35	Specify the Ringer Tone Pattern of the D^{term} to each trunk route.	• Y=34, 164 (1) 00-63: Trunk Route No. (2) See the table below. **[Series 3200 R6.1 software required]**

Y=34	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

A

To specify the ringer tone pattern of the D^{term} to each DID number:



DESCRIPTION	DATA
Specify the Ringer Tone Pattern of the D^{term} on DID calls. For this assignment, do not set CM76 Y=23 to 7 (As per CM35 Y=34/164).	• Y=23 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0: Ringer Tone Pattern 0 1: Ringer Tone Pattern 1 2: Ringer Tone Pattern 2 3: Ringer Tone Pattern 3 4: Ringer Tone Pattern 4 5: Ringer Tone Pattern 5 6: Ringer Tone Pattern 6 **[Series 3200 R6.1 software required]**

To set the ring frequency of the D^{term}:

B

CM65

DESCRIPTION	DATA
Specify the ring frequency of the D^{term}. **[Series 3200 R6.1 software required]**	• Y=40 (1) 00-63: Tenant No. (2) See the table below.

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀	
		Electra Terminal/ D^{term} Series III	Elite Terminal/D^{term} Series E/ D^{term} Series i
0	Door Phone Ringer Tone	1024 + 1285 [Hz]/ 16 [Hz] Modulating Signal	1100 + 1400 [Hz]/ 16 [Hz] Modulating Signal
1	Ringer Tone 1	480 + 606 [Hz]/ 8 [Hz] Modulating Signal	520 + 660 [Hz]/ 8 [Hz] Modulating Signal
2	Ringer Tone 2	600 + 700 [Hz]/ 16 [Hz] Modulating Signal	660 + 760 [Hz]/ 16 [Hz] Modulating Signal
3	Ringer Tone 3	1024 [Hz] Envelop	1100 [Hz] Envelop
4	Ringer Tone 4	500 [Hz]	540 [Hz]
5	Ringer Tone 5	1024 [Hz]	1100 [Hz]
6	Not used	1285 + 1024 [Hz]	1400 + 1100 [Hz]
7	Not used	480 + 606 [Hz]/ 16 [Hz] Modulating Signal	520 + 660 [Hz]/ 16 [Hz] Modulating Signal

NOTE: *This data is effective only for D^{term} Series i.*
When using Electra Terminal/D^{term} Series III/Elite Terminal/D^{term} Series E, using D^{term} Series i with Series 3100 software or before, or when accommodating D^{term} Series i in TDM based Remote PIM, the second data is fixed to 1.

END

To control the ring frequency at the D^{term}:

START	DESCRIPTION	DATA
CM08	Disable ring frequency by system data programming. (INITIAL)	(1) 390 (2) 0: By pressing feature key and dialing 3 (1) 262 (2) 0: Available
END		

HARDWARE REQUIRED

D^{term} and DLC card

RINGING LINE PICKUP

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C for Ringing Line Pickup.	• Y=07 (1) X-XXXXXXXX: My Line No. (2) 00-15◀: Service Restriction Class C
CM15	Allow Ringing Line Pickup in Service Restriction Class C assigned by CM12 Y=07.	• Y=82 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0: Allow
	Assign Service Restriction Class C for Ringing-Line Pickup by Speaker key, if required.	• Y=86 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0: Ringing Line Pickup by Speaker key is provided
END		

HARDWARE REQUIRED

D^{term} and DLC card

SOFT KEY

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Specify whether the Soft Key feature is available to each D^{term}.	• Y=22 (1) X-XXXXXXXX: My Line No. (2) 0◀: Available
	Assign Soft Key Pattern number to each D^{term}.	• Y=23 (1) X-XXXXXXXX: My Line No. (2) 0 : Pattern No. 0 1 : Pattern No. 1 2 : Pattern No. 2 3◀: Pattern No. 3
A		

A

CM9A

DESCRIPTION

Assign the function of each Soft Key on each status of the D^{term}.

To the 2nd data of this command, the 2nd data (F0XXX, F1XXX, F50XX) of CM90 should be assigned except for Scroll key data (F5002).

The LCD shows a maximum of 4 Soft Keys at once. If assigning more than 4 Soft Keys on one status, it is necessary to assign Scroll key at every 4 keys (on 1st through 4th display).

NOTE 1: *Scroll key must be assigned as a key for each active display.*

NOTE 2: *Help key is only available in Pattern No. 3.*

NOTE 3: *For the Pattern No. 3, the initial Soft Key data for NEAXMail AD-8/IM-16 live recording is assigned. See the following section.*

NOTE 4: *Pattern No. 3 is fixed.*

NOTE 5: *For Dial By Name assignment, refer to DIAL BY NAME.*
☞ Page 259

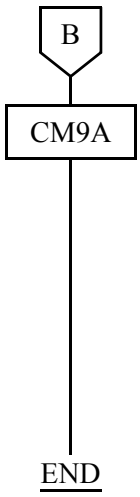
DATA

- Y=00-03 Soft Key Pattern No. 0-3 assigned by CM12 Y=23

(1) aa bb
aa: 00-15: Status No.
00: Idle State
01: During dialing (Holding no call)
02: During dialing (Holding station/trunk)
03: During calling (Holding no call)
04: During calling (Holding station/trunk)
05: Being called
06: When called party is busy (Holding no call)
07: When called party is busy (Holding station/trunk)
08: When called party sets DND
09: Trunk Busy
10: During Speaking (Holding no call)
11: During Speaking (Holding station/trunk)
12: During live recording/after live recording to NEAXMail AD-8/IM-16 **NOTE 3**
13-15: Not used
bb: Soft Key No. 00-15
00-03: Indicated on 1st display
04-07: Indicated on 2nd display
08-11: Indicated on 3rd display
12-15: Indicated on 4th display

(2) F5002 : Scroll key to change Soft Key Indication
XXXXX : Setting of each function (Same as "F0XXX, F1XXX, F50XX" of CM90)
NONE◀ : No data

B



DESCRIPTION	DATA
Assign the characters indicated on each status of the D^{term}, corresponding to the Soft Key function assigned by CM9A Y=00-03.	• Y=10-13 Soft Key Pattern No. 0-3 assigned by CM12 Y=23 (1) Same as Y=00-03 (2) XX...XX: Soft Key name indicated on LCD (Maximum 12 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ *Page B2*

To provide the Soft Keys for NEAXMail AD-8/IM-16 live recording, assign the following data.

START

DESCRIPTION

DATA

CM90

Provide the Record key on the feature key of the D^{term}.

- Y=00

(1) My Line No. + [,] + Key No.
(2) F1091: Record

CM9A

Assign the function of each Soft Key for NEAXMail AD-8/IM-16 live recording.

NOTE: *For the Pattern No. 3, the initial Soft Key data for NEAXMail AD-8/IM-16 live recording is assigned as follows.*

CM9A Y=03		CM9A Y=13 Indication
1st Data	2nd Data	
1200	F1096 (Address)	Addrs
1201	F1092 (Pause)	Pause
1202	F1094 (End)	End
1203	F5002 (Scroll)	>>>>
1204	F1093 (Re-record)	ReRec
1205	F1095 (Erase)	Erase
1206	F1017 (MIC)	MIC
1207	F5002 (Scroll)	>>>>
1208	F1097 (Urgent Page)	Urgnt
1209	NONE	
1210	NONE	
1211	F5002 (Scroll)	>>>>

- Y=00-03 Soft Key Pattern No. 0-3 assigned by CM12 Y=23

(1) 12 bb
bb: 00-15: Soft Key No.
00-03: Indicated on 1st display
04-07: Indicated on 2nd display
08-11: Indicated on 3rd display
12-15: Indicated on 4th display
(2) F1092 : Pause
F1093 : Re-record
F1094 : End
F1095 : Erase
F1096 : Address
F1097 : Urgent Page
NONE◀: No data

- Y=10-13 Soft Key Pattern No. 0-3 assigned by CM12 Y=23

(1) Same as Y=00-03
(2) XX...XX: Soft Key name indicated on LCD
(Maximum 12 characters)
NONE◀: No data
See APPENDIX B: Character Code Table.
☞ *Page B2*

END

HARDWARE REQUIRED

D^{term} with Soft Keys and DLC card

VOLUME CONTROL

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow or restrict the system to keep the volume level changed by the volume button on D^{term}, after the call is finished.	• Y=135 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 1◀: Restricted
END		

HARDWARE REQUIRED

D^{term} and DLC card

REMOTE HOLD

PROGRAMMING

Remote Hold from a D^{term}:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Remote Hold in Service Restriction Class A assigned by CM12 Y=02.	• Y=124 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
CM41	Specify the recall timing for Remote Hold.	• Y=0 (1) 06 (2) 01-98: 4-392 seconds (4 second increments) 99 : Recall is not performed If no data is set, the default setting is 236-240 seconds.
CM90	Assign a Hold key to the D^{term}.	• Y=00 (1) My Line No. + , + Key No. (2) F1010
END		

Remote Hold from a DESKCON:

START	DESCRIPTION	DATA
CM08	Provide Remote Hold from DESKCON service.	(1) 705 (2) 0: Available
CM41	Specify the recall timing for Remote Hold from DESKCON.	• Y=0 (1) 00 (2) 00-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) If no data is set, default setting is 31.2-33.6 seconds.
END		

RETURN MESSAGE SCHEDULE DISPLAY

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for setting a Return Message Schedule.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Return Message Schedule Display in Service Restriction A assigned by CM12 Y=02.	• Y=19 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM08	Assign whether the call to a station, set for Return Message Schedule Display, gets ringing or Reorder Tone.	(1) 334 (2) 0 : Available (Ringing) 1◀: Not available (ROT Connection)
CM20	Assign an access code for Return Message Schedule set and cancel, respectively.	• Y=0-3 Number Plan Group 0-3 (1) X-XXXX: Access Code (#8) (2) A154: Return Message Schedule Display Set A023: Return Message Schedule Display Cancel
END		

HARDWARE REQUIRED

D^{term} with LCD and DLC card

ROUTE ADVANCE

PROGRAMMING

START

END

DESCRIPTION

CM20

Assign the access code to Route Advance Block 00-31.

CM22

Specify the alternative routes with the order of priority to be seized. Up to seven alternative routes can be set by using two Route Advance Blocks, as shown below.

	PRIORITY	ROUTE	DATA	
Route Advance Block 00	0	00	100	1st
	1	01	101	2nd
	2	02	102	3rd
	3		201	To Route Advance Block 01
Route Advance Block 01	0	03	103	4th
	1	04	104	5th
	2	05	105	6th
	3	06	106	7th

DATA

- Y=0-3 Numbering Plan Group 0-3

(1) X-XXXX: Route Advance Access Code
(2) 200-231: Route Advance Block 00-31

- Y=00-31 Route Advance Block assigned by CM20>200-231

(1) 0-3: Order of Priority
0 : 1st
1 : 2nd
2 : 3rd
3 : 4th
(2) 100-163: Trunk Route 00-63
200-231: Route Advance Block 00-31

SAVE AND REPEAT

PROGRAMMING

START	DESCRIPTION	DATA
CM90	Assign the SAVE & REPEAT key to the D^{term}. **NOTE:** *Up to three Save and Repeat keys can be assigned per D^{term}.*	• Y=00 (1) My Line No. + [,] + Key No. (2) F1001, F1013, F1014
END		

HARDWARE REQUIRED

D^{term} and DLC card

SECURITY ALARM

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign the Hot Line to the station connected to the contact.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 04: Hot Line
CM52	Assign the Attendant Console as the Hot Line destination of the station.	• Y=00-99 Hot Line Pair No. (1) 0: Calling Side (2) X-XXXXXXXX: Station No. associated with the contact closure (1) 1: Called Side (2) E00X X: 0-7: ATTCON No. assigned by CM10/ CM14
END		

SEMI-AUTOMATIC CAMP-ON

[Series 3400 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM08	As a type of Camp-On operation from Attendant Console, specify Semi-Automatic Camp-On.	(1) 542 (2) 0 : Semi-Automatic Camp-On 1◀: Attendant Camp-On
	Specify the Camp-On Tone sent to busy station.	(1) 068 (2) 0 : Camp-on Tone is sent out only once. 1◀: Camp-on Tone is repeated at an interval of 4 seconds.
CM41	Specify the recall timing of Camp-On.	• Y=0 (1) 00 (2) 01-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) If no data is set, the default setting is 31.2-33.6 seconds.
END		

To reenter a Camped-On trunk from an Attendant before Automatic Recall:

START	DESCRIPTION	DATA
CM20	Assign the access code for Call Pickup-Direct.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A021: Call Pickup-Direct
END		

To display the busy station number and name on an Attendant Console when reentering a Camped-On trunk by pressing the loop key:

START	DESCRIPTION	DATA
CM08	Provide the Attendant Console with the busy station number/name display when reentering a Camped-On trunk.	(1) 441 (2) 0 : Available 1◀: Not available
END		

SET RELOCATION

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Set Relocation to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Set Relocation (Setting Side).	• Y=131 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
	Allow being moved and changed by Set Relocation operation.	• Y=132 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
	Allow Authorization Code operation after operating trunk call originating in Service Restriction Class A assigned by CM12 Y=02. **[Series 3900 software required]**	• Y=401 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 7◀: Restricted
CM20	Assign the access code for Authorization Code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A086
CM2A	Set the Authorization Code for Service Restriction Class A assigned by CM15 Y=131.	**NOTE:** *For setting the Authorization Code, refer to AUTHORIZATION CODE.* ☞ Page 86
CM20	Assign the access code for Set Relocation.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A196
END		

SHORT MESSAGE SERVICE (SMS)

[For EU]

PROGRAMMING

To restrict a toll call, do the programming of CODE RESTRICTION. ☞ *Page 214*
And to provide the caller ID-station, do the programming of CALLER ID-STATION (ETSI-FSK).
☞ *Page 193*

HARDWARE REQUIRED

Analog telephone with LCD which supports Caller ID
SDT card (PN-4RSTH)
LLC card (PN-4LLCB)
-48 V Power Supply (PZ-PW122)
Short Message Service Center (SM-SC)

SINGLE DIGIT FEATURE ACCESS CODE

PROGRAMMING

START	DESCRIPTION	DATA
CM08	To activate the Single-Digit Feature Access Code feature, set the data for 050, 051, 069, 148 and 543 to "1".	(1) 050: * Button as Switch Hook Flash. (2) 1◀: Ineffective
		(1) 051: # Button as Switch Hook Flash. (2) 1◀: Ineffective
		(1) 069: Single Digit Dialing on BT Connection (2) 1◀: Step Call
		(1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective
		(1) 543: Step Call (2) 1◀: Allow
	Provide the system with the Single-Digit Feature Access Code on RBT or Voice Call connection.	(1) 156 (2) 0: Available
	Provide the system with the Single-Digit Feature Access Code on BT connection.	(1) 208 (2) 0: Available
	Specify whether the access codes of Single-Digit Feature Access Code feature are fixed or not. **[Series 3600 software required]**	(1) 570 (2) 0 : Programmable Access Code 1◀: Fixed Access Code
A		

B

CM20

DESCRIPTION	DATA
When using programmable access code (CM08>570 is set to 0), assign the Single-Digit Feature Access Code for the BT connection. **[Series 3600 software required]**	• Y=4 (1) X: Access code (0-9, A (*), B (#)) (2) 2 : Call Back/Trunk Queuing-Outgoing 3 : Executive Override 4 : Camp-On 5 : Call Waiting 6 : Message Reminder Set 7 : Step Call 8 : Message Waiting Record 9 : Voice Mail Transfer NONE◀: Single-Digit Feature Access Code is not available
When using programmable access code (CM08>570 is set to 0), assign the Single-Digit Feature Access Code for the RBT connection. **[Series 3600 software required]**	• Y=5 (1) X: Access code (0-9, A (*), B (#)) (2) 1 : Internal Tone/Voice Signaling 2 : Call Back/Trunk Queuing-Outgoing 6 : Message Reminder Set 8 : Message Waiting Record 9 : Voice Mail Transfer NONE◀: Single-Digit Feature Access Code is not available

END

When CM08>570 is set to 1, the associated access codes become as shown below, and these access codes cannot be changed.

On Busy Tone Connection

1. None
2. Call Back/Trunk Queuing-Outgoing **NOTE 1, 2**
3. Executive Override **NOTE 1, 2**
4. Camp-On
5. Call Waiting
6. Message Reminder/Message Waiting Set
7. Step Call (7 + Last one digit) **NOTE 3**
8. Message Waiting Record
9. None

On Ring Back Tone Connection

1. Internal Tone/Voice Signaling **NOTE 4**
2. Call Back-Don't Answer **NOTE 1, 2, 4**
3. None
4. None
5. None
6. Message Reminder/Message Waiting Set **NOTE 4**
7. None
8. Message Waiting Record **NOTE 4**
9. None

NOTE 1: *This feature cannot be set from Attendant Console.*
NOTE 2: *This feature cannot be set from a station having a held call.*
NOTE 3: *This feature can be set only from a station having a held incoming call.*
NOTE 4: *From a DTMF telephone, a hooking operation is required before dialing the single digit access code.*

This feature is mutually exclusive with Step Call.
However, 2 digit dialing Step Call can be provided by using this feature.

SOFTWARE LINE APPEARANCE (VIRTUAL EXTENSIONS)

PROGRAMMING

START	DESCRIPTION	DATA
CM11	Assign a Software Line Appearance (Virtual Line station number) to the required Virtual LEN.	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtua1 Line Station No.
	The Virtual LEN has no relation with the physical LEN used in CM10/CM14. Therefore, any Virtual LEN can be assigned to each Virtual Line station number. However, the Virtual Line station number should be different from the Single Line number assigned by CM10/CM14.	
CM12	Assign the Station Class data to each Virtual Line station number.	• Y=01 Trunk Restriction Class • Y=02 Service Restriction Class • Y=03 Kind of Telephone • Y=04 Tenant Allocation (1) X-XXXXXXXX: Virtual Line Station No. (2) Refer to CLASS OF SERVICE. ☞ *Page 211*
CM90	Assign the Virtual Line station to a D^{term}. One Virtual Line station number may be assigned to plural D^{term}s.	• Y=00 (1) My Line No. + [,] + Key No. (2) X-XXXXXXXX: Virtual Line Station No.
END		

HARDWARE REQUIRED

D^{term} and DLC card

STACK DIAL

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify whether Stack Dial is available for internal calls.	(1) 178 (2) 0 : Not available (Only available for external calls) 1◀: Available
CM12	Assign Service Restriction Class C to the required stations.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Allow the D^{term} LCD display service.	• Y=96 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 1◀: With LCD
CM90	Assign the Stack Dial/Redial/Speed Dialing key to each D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1000: Stack Dial/Redial/Speed Dialing
CM08	Specify whether the system sends the SPDT after the Redial key on a D^{term} is pressed for the second time or more. **[Series 3600 software required]**	(1) 566 (2) 0 : Not sent 1◀: To send
	Provide the system with Automatic Idle Return.	(1) 172 (2) 1◀: To provide
	Specify whether the Automatic Idle Return is available or not, in case the ORT time out occurs after the Redial/Speaker key is pressed with the D^{term} is on-hook condition. **[Series 3600 software required]**	(1) 567 (2) 0 : Not available 1◀: Available
END		

To provide DESKCON with this feature:

START	DESCRIPTION	DATA
CM90	Assign the Stack Dial/Redial key to each DESKCON.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6121: Stack Dial/Last Number Redial
END		

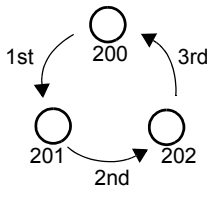
HARDWARE REQUIRED

D^{term} with LCD and DLC card
DESKCON and DLC card

STATION HUNTING

STATION HUNTING-CIRCULAR

PROGRAMMING

START	DESCRIPTION	DATA
CM18	To set up each Station Hunting group, assign station numbers, one by one, in order of the Hunting as shown below. **Example:** For setting station number 200, 201, 202 into one Hunting group. 1st Operation (1) 200, (2) 201 2nd Operation (1) 201, (2) 202 3rd Operation (1) 202, (2) 200 	• Y=0 (1) X-XXXXXXXX: Station No. to be included in Station Hunting Group (2) X-XXXXXXXX: Another Station No. to be linked
	Specify the Hunting capability of each station. To continue the hunt in the original direction, if the station is busy, set to "1"; to reverse the direction (last station only), set to "5". **NOTE 1:** *The maximum number of stations per hunt group is 60. And there is no limit to the number of Circular Hunt groups within the system.* **NOTE 2:** *Each station can belong to only one hunt group.* **NOTE 3:** *The Attendant Console cannot be member of a hunt group.*	• Y=1 (1) X-XXXXXXXX: Station No. (2) 1: If busy, hunt in original direction 5: If busy, hunt in reverse direction
CM08	Allow or restrict the ability to set Station Hunting-Circular for a station with Do Not Disturb set.	(1) 240 (2) 0 : Allow 1◀: Restricted
END		

STATION HUNTING-TERMINAL

PROGRAMMING

START	DESCRIPTION	DATA
CM18	To set up each Station Hunting group, assign station numbers, one by one, as shown below. 1st Operation [(1) Station A (2) Station B 2nd Operation [(1) Station B (2) Station C	• Y=0 (1) X-XXXXXXXX: Station No. to be included in Station Hunting Group (2) X-XXXXXXXX: Another Station No. to be included in the Same Hunting Group
	Assign the pilot station to required station number within the Hunting group. For the member stations, set the data to "0". **NOTE:** *The maximum number of stations that can be included on one Station Hunting group is 60 including the Pilot Station.* *And there is no limit to the number of Terminal Hunt groups within the system.*	• Y=1 (1) X-XXXXXXXX: Station No. (2) 0◀: Member Station 1 : Pilot Station
CM08	Allow or restrict the ability to set Station Hunting-Terminal for a station with Do Not Disturb set.	(1) 240 (2) 0 : Allow 1◀: Restricted
END		

STATION HUNTING-SECRETARIAL

PROGRAMMING

START	DESCRIPTION	DATA
CM18	Assign a secretary station serial number to each Station Hunting group. **NOTE:** *A maximum of 31 stations can be members of the Secretarial Hunt group.*	• Y=2 (1) X-XXXXXXXX: Pilot Station No. (Terminal)/All Member Station No. (Circular) (2) 00-30: Secretary Station Serial No.
CM19	Assign a station number to each secretary station serial number assigned by CM18 Y=2.	• Y=0 (1) 00-30: Secretary Station Serial No. (2) X-XXXXXXXX: Secretary Station No.
	Specify the Hunting capability of each secretary station.	• Y=1 (1) 00-30: Secretary Station Serial No. (2) 5: Hunting (As per CM19 Y=2) 7: No hunting
	Set up the order of Secretary Hunting. Assign secretary station serial numbers, one by one, in order of the desired Secretary Hunting, as shown below. 1st Operation [(1) Station Serial No. A (2) Station Serial No. B 2nd Operation [(1) Station Serial No. B (2) Station Serial No. C	• Y=2 (1) 00-30: Secretary Station Serial No. (A) (2) 00-30: Secretary Station Serial No. (B)
CM08	Allow or restrict the ability to set Station Hunting-Secretarial for a station with Do Not Disturb set.	(1) 240 (2) 0 : Allow 1◀: Restricted
END		

STATION MESSAGE DETAIL RECORDING (SMDR)

SYSTEM OUTLINE

The Station Message Detail Recording (SMDR) feature allows the system to send a raw data of the trunk outgoing/incoming call information. The SMDR data can be received by a personal computer (PC) which runs an RS-232C or a LAN terminal emulation software. (referred to the rest of this manual as simply "SMDR terminal")

The PBX provides two kinds of SMDR. One is the Main Processor (MP) built-in SMDR, and the another is the SMDR with Application Processor (AP00).
Call information is sent out from the MP or AP00 to the SMDR terminal when each call is completed. If the SMDR terminal is not connected to the system or if the SMDR terminal is not ready for receiving information, the call information is temporarily stored in the MP or AP00. As soon as the SMDR terminal becomes ready to receive information, the call information temporarily stored in the MP or AP00 is sent out to the SMDR terminal.

(1) MP Built-in SMDR on RS-232C

The system outline of the Built-in SMDR is shown below. The Built-in SMDR on RS-232C consists of the MP and the external SMDR terminal.

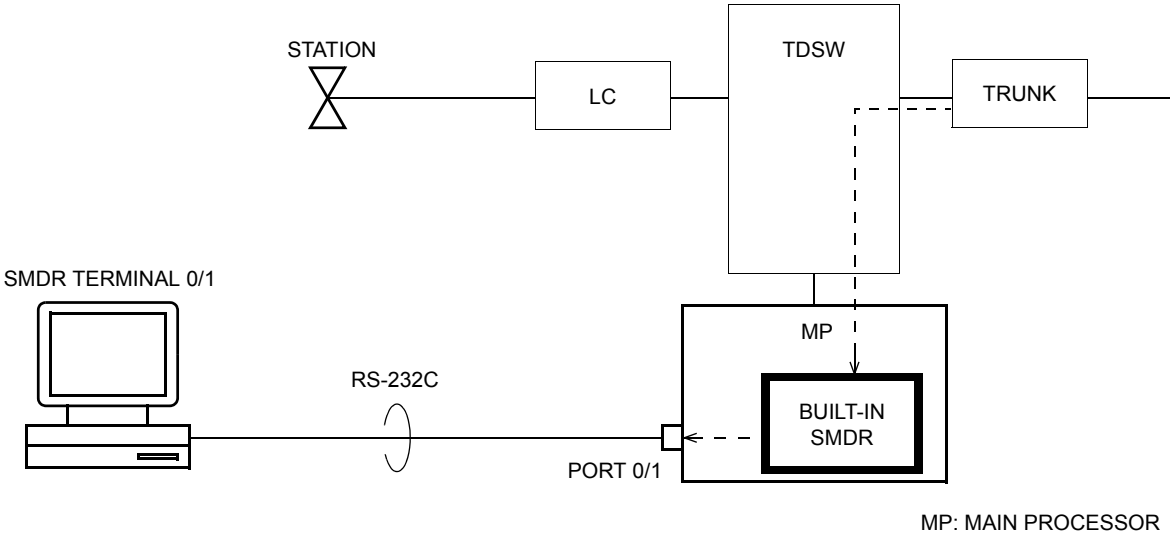
- MP card:
  The MP stores various kinds of information on an event basis. When a call is completed, the MP sends out the call information pertaining to that specific call to the SMDR terminal.
  Two RS-232C ports can be used for the SMDR terminal interface.

  The MP keeps supervising the status of the SMDR terminal. If the SMDR terminal is not ready to receive information (Busy Status), the MP temporarily stores the call information into its internal memory.
  When the number of the call records stored in the MP reaches the maximum, new call records will be lost.

  The call record memory will be cleared by MP reset.

- SMDR Terminal:
  An Asynchronous Personal Computer is used as the SMDR terminal for receiving and processing the call information via RS-232C.
  The maximum number of SMDR terminal is two, which includes the number of Message Center Interface (MCI).

System Outline of MP Built-in SMDR on RS-232C



MP: MAIN PROCESSOR

(2) MP Built-in SMDR on IP

The system outline of the Built-in SMDR is shown below. The Built-in SMDR on IP consists of the MP and the external SMDR terminal.

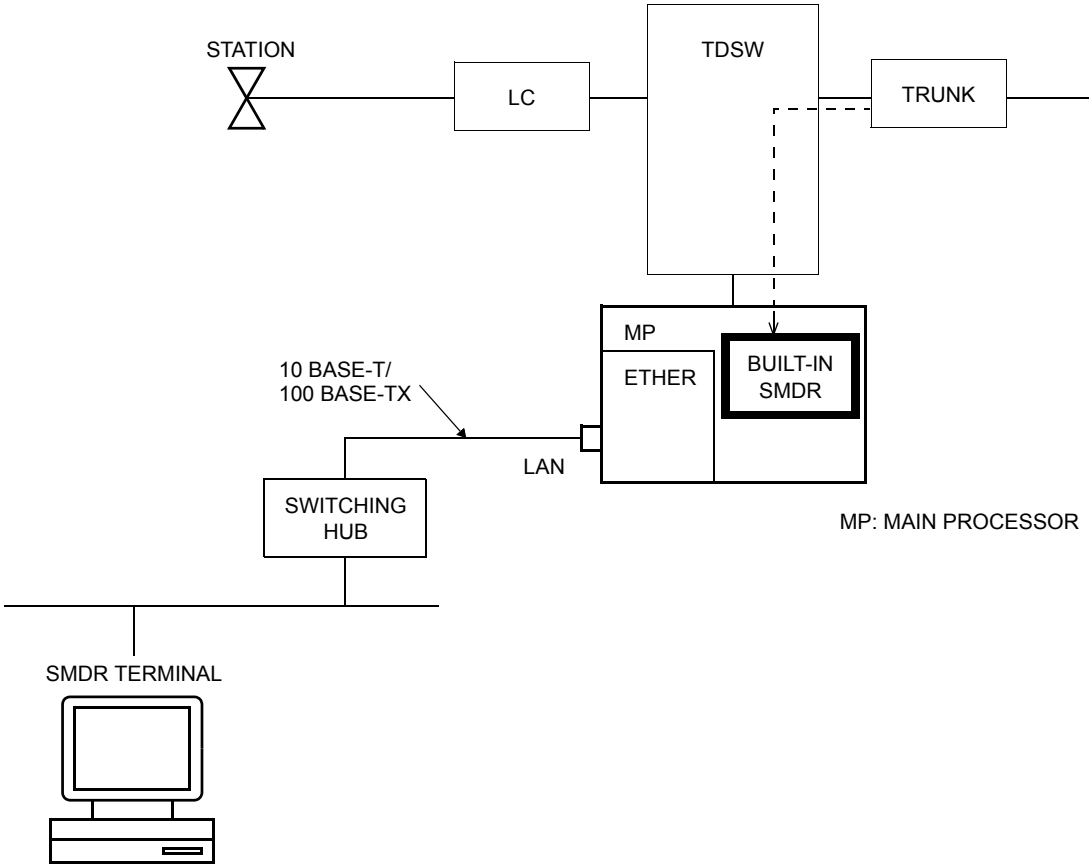
- MP card:
  The MP stores various kinds of information on an event basis. When a call is completed, the MP sends out the call information pertaining to that specific call to the SMDR terminal.
  One LAN port can be used for the SMDR terminal interface.

  The MP keeps supervising the status of the SMDR terminal. If the SMDR terminal is not ready to receive information (Busy Status), the MP temporarily stores the call information into its internal memory.
  When the number of the call records stored in the MP reaches the maximum, new call records will be lost.

  The call record memory will be cleared by MP reset.

- SMDR Terminal:
  A Personal Computer with LAN port is used as the SMDR terminal for receiving and processing the call information via LAN.
  Only one SMDR terminal is available.

System Outline of MP Built-in SMDR on IP



(3) SMDR with AP00

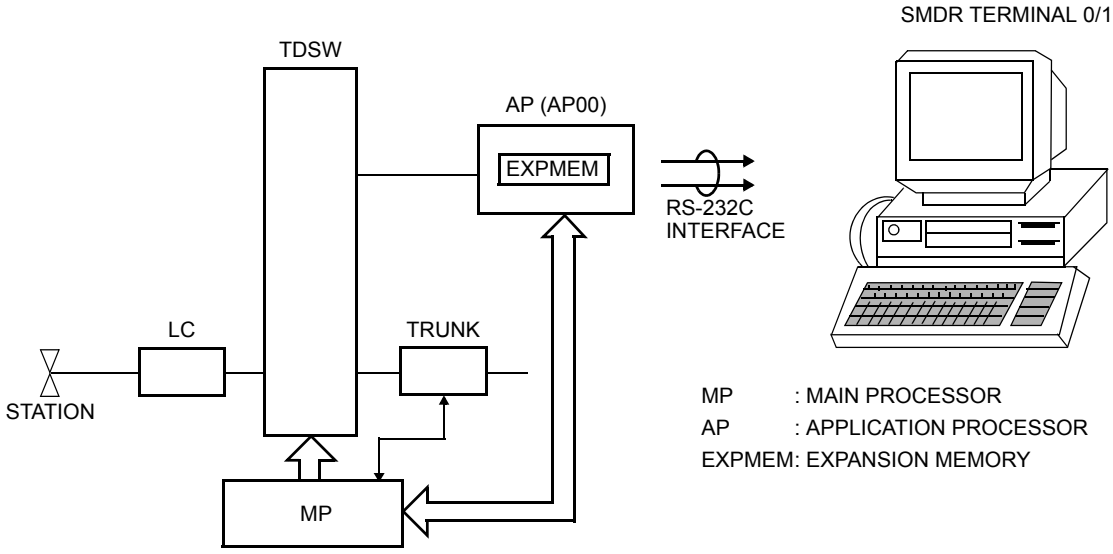
The System outline of the SMDR with AP00 is shown below.
The SMDR consists of the AP00 and the external SMDR terminal.

- AP (AP00):
  The AP stores various kinds of information which arrives from the MP on an event basis. When a call is completed, the AP sends out the call information pertaining to that specific call to the SMDR terminal.
  Four of the AP (RS-232C) ports can be used for the SMDR terminal interface. The AP ports perform as DTE.
  The system can accommodate a maximum of one AP00 card.

- SMDR Terminal:
  Asynchronous PC is used as the SMDR terminal for receiving and processing the call information via RS-232C.
  The maximum number of SMDR terminal is two, which includes the number of Property Management System (PMS) terminal.

NOTE: *For AP00 card (PN-AP00-B/PN-AP00-D with MRCA program), PMS terminal is not available.*

System Outline of SMDR with AP00



SYSTEM CAPACITY

(1) MP Built-in SMDR on RS-232C
- The maximum of trunk calls simultaneously: 255 trunk calls
- The maximum of call record: 1024 call record

(2) MP Built-in SMDR on IP
- The maximum of trunk calls simultaneously: 255 trunk calls
- The maximum of call record: 1024 call record

(3) SMDR with AP00
Buffer Memory Capacity within AP00 card can store the following number of call information temporarily.
- PN-AP00-B with AP00 program

Amount of Call Records number of CMD003 1st data 23, 24, 25, 26, 28, 29, 30			
No EXPMEM on AP00 is provided		**EXPMEM on AP00 is provided**	
When CMD001>179 is set to 0 (Local Office of Centralized Billing-CCIS/Stand-alone)	When CMD001>179 is set to 1 (Center Office of Centralized Billing-CCIS)	When CMD001>179 is set to 0 (Local Office of Centralized Billing-CCIS/Stand-alone)	When CMD001>179 is set to 1 (Center Office of Centralized Billing-CCIS)
1600	800	27000: When CMD003>28 is set to 0 (Call Record for CIS is not provided) 26000: When CMD003>28 is set to other than 0 (Call Record for CIS is provided)	

- PN-AP00-B/PN-AP00-D with MRCA program

Amount of Call Records number of CMDD02 1st data 0, 1, 2			
No EXPMEM on PN-AP00-B is provided		**EXPMEM on PN-AP00-B/PN-AP00-D is provided**	
CMDD00>3 is set to 0 (Local Office of Centralized Billing-CCIS/Stand-alone)	CMDD00>3 is set to 1 (Center Office of Centralized Billing-CCIS)	CMDD00>3 is set to 0 (Local Office of Centralized Billing-CCIS/Stand-alone)	CMDD00>3 is set to 1 (Center Office of Centralized Billing-CCIS)
2620	1310	23580	22270

COMBINATION OF SMDR SERVICE

By system data programming, the same call record can be output to multiple SMDR terminals simultaneously. Following table shows the combination pattern of call record output available at the same time regardless of the type of Message Format.

Combination of SMDR Service

×: Available
–: Not available

SMDR TYPE	PATTERN A	PATTERN B	PATTERN C	PATTERN D	PATTERN E
SMDR with AP00 (PN-AP00-B with AP00 program)	–	–	–	–	×
MP built-in SMDR on RS-232C	×	×	–	–	–
MP built-in SMDR on IP	–	–	×	×	–
SMDR with AP00 (PN-AP00-B/ PN-AP00-D with MRCA program)	–	×	–	×	–

HARDWARE REQUIRED

(1) MP Built-in SMDR on RS-232C
MP card
RS RVS-4SCA-C/RS RVS-15S CA-A or RS NORM-4S CA-A
SMDR terminal

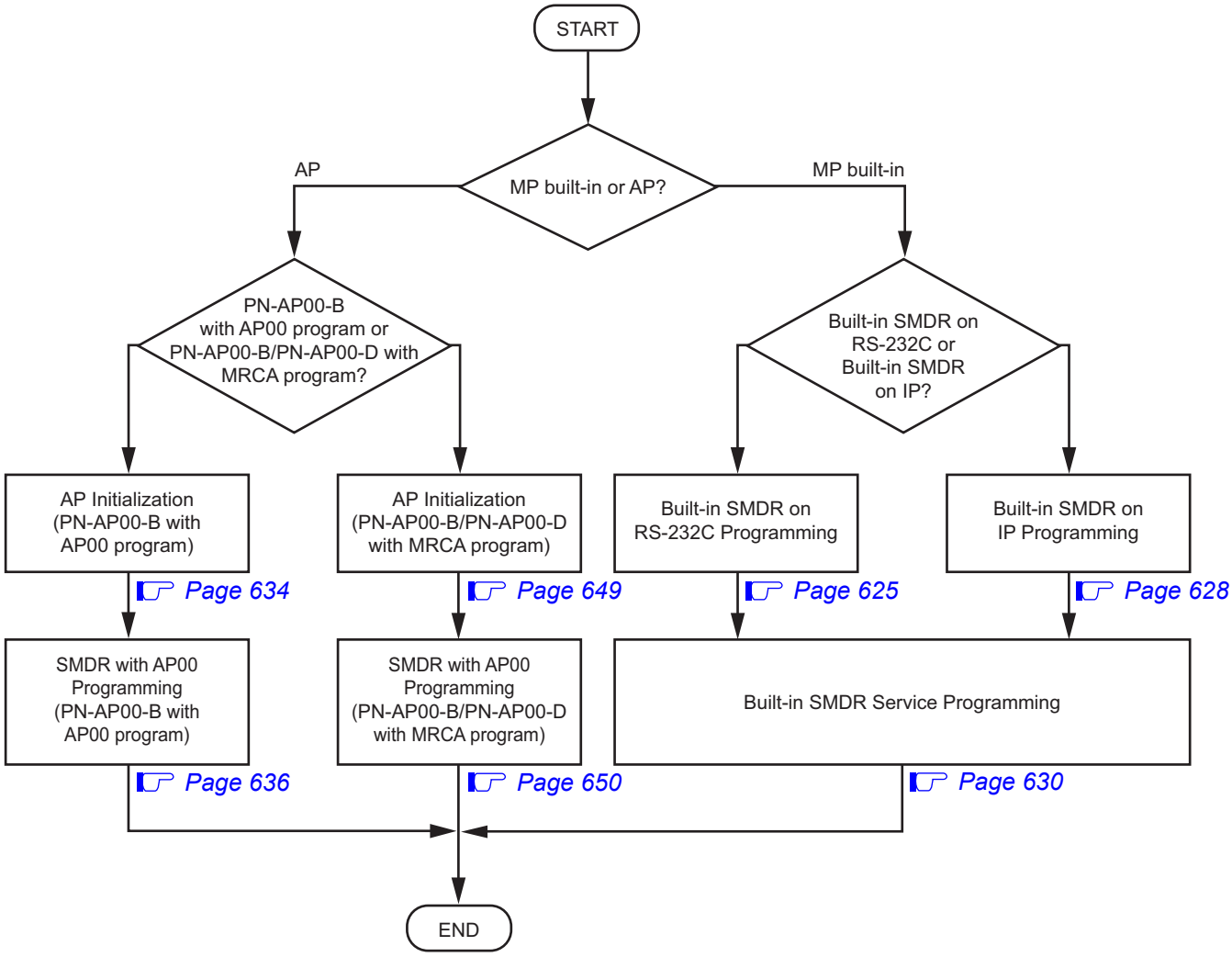
(2) MP Built-in SMDR on IP
MP card
SMDR terminal

(3) SMDR with AP00
AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
EXPMEM card (PZ-M537) on AP00-B card if required
RS RVS-4SCA-C/RS RVS-15S CA-A or RS NORM-4S CA-A
SMDR terminal

NOTE: *For SMDR with NEAX 1400 Format, only AP00-B card (PN-AP00-B with AP00 program) is available.*

PROGRAMMING SUMMARY

Programming Summary for SMDR



PROGRAMMING

Precaution

Before programming the system data for SMDR, confirm that the system is under the following status.

- The system is under On-Line mode. ("RUN" lamp is flashing on the MP card.)
- The AP00 card is mounted in the correct location. (for SMDR with AP00)
- All the system data pertaining to the station, trunks, and service features are already programmed.

Station Number Data Loading

The AP00 stores the station number data loaded from the MP. When station numbers have been added, deleted or changed by CM10/CM14, the station number data must be reloaded to the AP00 by the following procedure.

(1) Flip the MB switch of the AP to UP position.

(2) Return the MB switch to DOWN position.

(3) The "**** AP00 START ****" message is printed if a printer is provided.

(4) The "SORT COMPLETE" message is printed when the station number has been sent to the AP.

Built-in SMDR on RS-232C Programming

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2000-2099 (1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat) (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
CM04	Specify SMDR terminal via RS port as the destination to send a Built-in SMDR call information. **[Series 3400 software required]**	• Y=01 (1) 05: Destination to send a Built-in SMDR call information (2) 0 : SMDR terminal via LAN port 1 : PMS via LAN port 7◀: SMDR terminal via RS port
	Specify the Message Format for Built-in SMDR on RS-232C according to the SMDR terminal specification. **[Series 3400 software required]**	• Y=01 (1) 07: Message Format for Built-in SMDR on RS-232C (2) 00 : Extended 2400 IMS Format 15◀: Former 2400 IMS Format
A		

A

CM40

DESCRIPTION	DATA
Specify the function for the RS ports. **NOTE:** *When a port is used for Built-in SMDR, assign the 2nd data=14. When a port is used for both MCI and Built-in SMDR, assign the 2nd data=11.*	• Y=00 Function (1) 0: Port 0 1: Port 1 (2) 11: MCI and Built-in SMDR 14: Built-in SMDR
Assign the attribute data for RS ports according to the SMDR terminal specifications.	• Y=01 Data length (1) 0: Port 0 1: Port 1 (2) 0 : 7 bits 1◀: 8 bits • Y=02 Parity check (1) 0: Port 0 1: Port 1 (2) 0 : Effective 1◀: Ineffective • Y=03 Kind of parity (1) 0: Port 0 1: Port 1 (2) 0 : Even parity 1◀: Odd parity • Y=04 Stop bit (1) 0: Port 0 1: Port 1 (2) 0 : One-stop bit 1◀: Two-stop bits • Y=05 DTR signal (1) 0: Port 0 1: Port 1 (2) 0 : Low 1◀: High

B

	DESCRIPTION	DATA
B		
CM40		• Y=06 RTS signal (1) 0: Port 0 1: Port 1 (2) 0 : Low 1◀: High • Y=08 Data speed (1) 0: Port 0 1: Port 1 (2) 1 : 1200 bps 2 : 2400 bps 3 : 4800 bps 4 : 9600 bps 5 : 19200 bps NONE◀: 9600 bps
CM12	Assign Service Restriction Class A for SMDR service for station to station calls to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15: Service Restriction Class A
CM15	Allow SMDR service for station-to-station calls in Service Restriction Class A assigned by CM12 Y=02. **[Series 3600 software required]**	• Y=213 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 1◀: Restricted
END		

Built-in SMDR on IP Programming

[Series 3400 software required]

NOTE: *The MP card (or the MP card in a Main Site when Remote PIM over IP feature is provided) communicates with the SMDR terminal. For the settings in the SMDR terminal side, set IP address assigned by CM0B Y=00 (or CM0B Y=02 when VLAN is provided) as a destination of the SMDR terminal, and set "60010" as the port number.*

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2000-2099 (1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat) (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
CM0B	Assign the IP Address for the system. (INITIAL)	• Y=00 (1) 00 (2) 000000000000-255255255255: IP Address for the system
	Assign the Subnet Mask for the system. (INITIAL)	• Y=00 (1) 01 (2) 000000000000-255255255255: Subnet Mask for the system
A		

	DESCRIPTION	DATA
A		
CM0B	Assign the Default Gateway Address for the system. (INITIAL)	• Y=00 (1) 02 (2) 000000000000-255255255255: Default Gateway Address for the system
CM04	Specify SMDR terminal via LAN port as the destination to send a Built-in SMDR call information.	• Y=01 (1) 05: Destination to send a Built-in SMDR call information (2) 0 : SMDR terminal via LAN port 1 : PMS via LAN port 7◀: SMDR terminal via RS port
	Specify the Message Format for Built-in SMDR on IP according to the SMDR terminal specification.	• Y=01 (1) 08: Message Format for Built-in SMDR on IP (2) 00 : Extended 2400 IMS Format 15◀: Former 2400 IMS Format
CM12	Assign Service Restriction Class A for SMDR service for station-to-station calls to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15: Service Restriction Class A
CM15	Allow SMDR service for station-to-station calls in Service Restriction Class A assigned by CM12 Y=02. **[Series 3600 software required]**	• Y=213 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 1◀: Restricted
CM08	Specify whether the parity check is provided (for SMDR-LAN).	(1) 827 (2) 0 : Not provided (None parity) 1◀: To provide (Parity as for CM08>828)
	Specify the kind of parity (for SMDR-LAN).	(1) 828 (2) 0 : Odd parity 1◀: Even parity
END		

Built-in SMDR Service Programming

To provide an SMDR service, do the following programming in addition to the programming for the Built-in SMDR on RS-232C or Built-in SMDR on IP.

START	DESCRIPTION	DATA
CM08	Assign the Pseudo-Answer signal function when the answer signal (Battery Reversal) has not been detected within the time assigned by CM41 Y=0>03 after making an outgoing trunk call. **NOTE:** *This data is effective when CM35 Y=04 is set to "1".*	(1) 123 (2) 0 : Not sent 1◀: To send
CM13	Provide the SMDR service for outgoing calls to the required stations.	• Y=06 (1) X-XXXXXXXX: Station No. (2) 1◀: To provide
CM35	Specify the type of answer signal from distant office in outgoing connection for each trunk route.	• Y=04 (1) 00-63: Trunk Route No. (2) 1 : Battery Reversal from C.O. line 2 : Answer signal arrives from Tie line/ ISDN 7◀: Answer signal does not arrive
	Provide the SMDR service for outgoing calls to the required trunk routes.	• Y=14 (1) 00-63: Trunk Route No. (2) 1◀: To provide
	Assign a trunk access code sent to SMDR for outgoing calls.	• Y=44 (1) 00-63: Trunk Route No. (2) 00-99: Trunk access code
CM41	Specify the timing of SMDR valid call timer (pseudo-answer timer).	• Y=0 (1) 03: Pseudo-answer timer (2) 00-08: 8-40 seconds (4 second increments) If no data is set, the default data is 20-24 seconds.
A		

A

CM08

B

DESCRIPTION

Specify the method of charging a transferred call.

The following table shows the station to which call charging is to be made in the case of various transfer patterns.

DATA

(1) 424: Charging method
(2) 0 : Charging to transferring station or destination station
1◀: Split charging to both transferring station and transfer destination station

(1) 425: Charging destination
(2) 0 : Charging to transferring station
1◀: Charging to transfer destination station

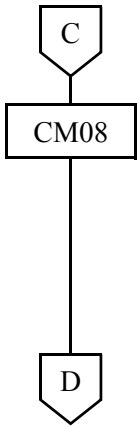
TRANSFER PATTERN		CM08>424=1	CM08>424=0	CM08>424=0
FROM	TO		CM08>425=1	CM08>425=0
STA A	STA B	Split charging to STA A and STA B	STA B	STA A
STA	ATT	STA	STA	STA
ATT	STA	STA	STA	STA
ATT A	ATT B	Split charging to ATT A and ATT B	ATT B	ATT A

STA: Station
ATT: Attendant Console

For Incoming Call Record, do the following programming.

	DESCRIPTION	DATA
B		
CM13	Provide the SMDR service for incoming calls to the required stations.	• Y=05 (1) X-XXXXXXXX: Station No. (2) 0 : To provide 1◀: Not provided
CM35	Provide the SMDR service for incoming calls to the required trunk routes.	• Y=49 (1) 00-63: Trunk Route No. (2) 0 : To provide 1◀: Not provided
CM08	Specify whether the SMDR service is effective only for incoming calls with Account Code or not.	(1) 426: SMDR for incoming call (2) 0 : Effective for all incoming calls 1◀: Effective only for incoming calls with Account Code
	Specify whether the ANI/Caller ID is sent to SMDR. **NOTE 1:** *When providing incoming calls with ANI, assign this data in addition to the programming for AUTOMATIC NUMBER IDENTIFICATION (ANI).* ☞ Page 120 **NOTE 2:** *When this data is assigned to 1, SMDR service for incoming calls is not provided even if CM13 Y=05 is 0 (To provide).*	(1) 463: ANI/Caller ID to SMDR (2) 0 : To send 1◀: Not sent
C		

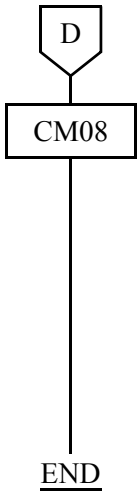
To provide SMDR for tandem calls, do the following programming.



DESCRIPTION	DATA
Provide the system with SMDR service for tandem calls.	(1) 040 (2) 0: Available
Specify whether the MP built-in SMDR output for tandem calls is divided into terminating trunk and originating trunk.	(1) 803 (2) 0 : To provide 1◀: Not provided (Originating trunk only)

To provide SMDR for Call Forwarding-All Calls/Busy Line/No Answer-Outside calls from virtual station number, do the following programming.

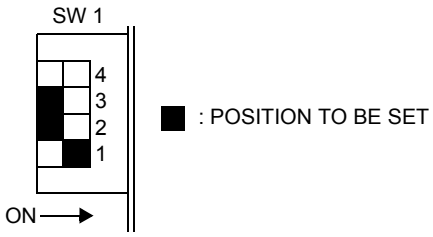
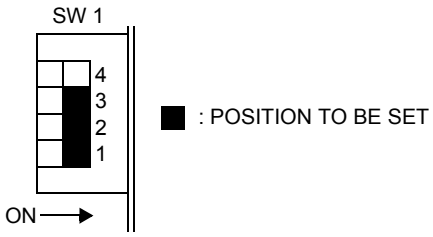
[Series 3800 software required]



DESCRIPTION	DATA
Specify whether the virtual station number (CM11) is sent to SMDR when the call to the virtual station is transferred by Call Forwarding-All Calls/Busy Line/No Answer-Outside. **NOTE:** *When the second data of CM08>849 is set to 1, originating station number/incoming trunk number is sent to SMDR.*	(1) 849 (2) 0 : To send 1◀: Not sent

AP Initialization (PN-AP00-B with AP00 program)

This section explains the data assignment to make the AP active.
You can skip the data assignment explained in this section, if one of the following AP related features has been activated; Station Message Detail Recording (SMDR), Message Center Interface (MCI), Property Management System (PMS), or Hotel printer. You can distinguish whether the AP is active or not by the RUN lamp indication. The RUN lamp flashes on green color when the AP is in active.
When you install the AP00 the first time, you should assign the data shown below.

START	DESCRIPTION	DATA
CM05	Assign an AP number to the AP00 card. The AP number must match the SENSE switch setting on the AP00 card. (INITIAL)	• Y=0 (1) 04-15, 20-31: AP No. (2) 04: AP00 card
	On the AP00 card, set SW1 switch as shown below. 	SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
CMD101	Load the initial data into the AP00 card. (AP OFF LINE)	(1) 0000 (2) CCC
	On the AP00 card, set the SW1 switch as shown below. 	SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
END		

AP Controlled Stations
[Series 3400 software required]

SMDR service using the AP00 card (PN-AP00-B with AP00 program), a maximum of 504 stations can be controlled by the AP00 card. When 505 or more stations are accommodated in a system, you have to specify to each station whether a station is controlled by AP00 card or not.

START	DESCRIPTION	DATA
CM12	Specify to each station whether a station is controlled by AP00 card or not.	• Y=49 (1) X-XXXX: Station No. (2) 0 : Not controlled 1 : Controlled 3◀: Only 504 stations are controlled in order of station registration (The stations after the 504th are not controlled)

NOTE: *You can confirm the stations assigned by CM12 Y=49. Execute CM12 Y=91 10 minutes after AP initialization completed. Enter the first data which was assigned by CM12 Y=49, the system displays the second data. Check CM12 Y=49 data setting when NONE is displayed even though a station is set as a controlled station by AP00 card.*

CM12 Y=91 (Confirmation of stations controlled by AP00 card)
(1) X-XXXX: Station No.
(2) 000-503: Controlled Station No. 000-503
NONE : Not controlled

END

SMDR with AP00 Programming (PN-AP00-B with AP00 program)

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2000-2099 (1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat) (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
CM08	Assign the Pseudo-Answer signal function when the answer signal (Battery Reversal) has not been detected within the time assigned by CM41 Y=0>03 after making an outgoing trunk call. **NOTE:** *This data is effective when CM35 Y=04 is set to "1".*	(1) 123 (2) 0 : Not sent 1◀: To send
CM13	Provide the SMDR service for outgoing calls to the required stations.	• Y=06 (1) X-XXXX: Station No. (2) 1◀: To provide
CM35	Specify the type of answer signal from distant office in outgoing connection for each trunk route.	• Y=04 (1) 00-63: Trunk Route No. (2) 1 : Battery Reversal from C.O. line 2 : Answer signal arrives from Tie line/ ISDN 7◀: Answer signal does not arrive
A		

A

	DESCRIPTION	DATA
CM35	Provide the SMDR service for outgoing calls to the required trunk routes.	• Y=14 (1) 00-63: Trunk Route No. (2) 1◀: To provide
	Assign a trunk access code for SMDR.	• Y=44 (1) 00-63: Trunk Route No. (2) 00-99: Trunk Access Code
CM41	Specify the timing of SMDR valid call timer (pseudo-answer timer).	• Y=0 (1) 03 (2) 00-08: 8-40 seconds (4 second increments) If no data is set, the default setting is 20-24 seconds.
CMD000	Specify the contents of the detail call information to be sent to the SMDR.	(1) 60 (2) 0◀: Only the called party's No. is sent out 1 : All the dial information inclusive of the access code is sent out
CMD001	Specify the method of charging a transferred call.	(1) 1 (2) 0◀: Split charging to both the transfer destination station and the transferring station 1 : Charging to transfer destination station 2 : Charging to transferring destination station

B

B

CMD001

C

DESCRIPTION	DATA
Assign the attribute data, depending on the port (Port 0-3) connected to the SMDR terminal.	(1) See the following table. (2) See the following table.

AP00 INITIAL

- For SMDR (NEAX 2400 IMS Format):

FIRST DATA (1)				MEANING	SECOND DATA (2)	MEANING
PORT 0	PORT 1	PORT 2	PORT 3			
20	24	28	32	Data Speed	2/3/4/5	1200 bps/2400 bps/4800 bps/ 9600 bps NOTE
21	25	29	33	Stop Bit Length	0/1/2	1 bit/1.5 bits/2 bits
22	26	30	34	Data Length	0/1	7 bits/8 bits
23	27	31	35	Parity	0/1/2	None Parity/Even Parity/Odd Parity
80	100	120	140	Function	4/5	Computer 0/Computer 1
81	101	121	141	Priority for Data Processing	0	1st
82	102	122	142	Message Format	3	NEAX 2400 IMS Format
84	104	124	144	Protocol	1	Free Wheel
85	105	125	145	Station Address (SA)	48	0
86	106	126	146	Unit Address (UA)	33	!

NOTE: *For the Port 1 and Port 3, data speed 9600 bps cannot be set.*

C

	DESCRIPTION	DATA
CMD001	Specify the maximum accumulation rate of billing memory for external alarm output when the rate exceeds assigned value.	(1) 229 (2) 0◀ : 80% 50-99: 50-99%

NOTE 1: *The condition for external alarm is as follows;*
(a) The accumulation rate for the following limit value approaches the value set by CMD001>229 in advance.
(b) The accumulation rate for the following limit value approaches full.
(c) The accumulation rate for the following limit value is less than the assignable range set by CMD001>229 or is cleared the stored billing memory.

[Limit Value]
- Limit value of remaining Call Record memory set by CMD003>24/29

NOTE 2: *ON/OFF control for external relay on DK00 card and fault information display can be performed with the condition for external alarm as above.*
For case (a): External relay ON/OFF set by CMD000>126
Fault information display set by CMEA Y=2>28
For case (b): External relay ON/fault information display set by CMEA Y=2>28
For case (c): External relay OFF/fault information display set by CMEA Y=2>38

D

D

CMD001

DESCRIPTION **DATA**

• For SMDR (NEAX 1400 IMS Format):

FIRST DATA (1)				MEANING	SECOND DATA (2)	MEANING
PORT 0	PORT 1	PORT 2	PORT 3			
20	24	28	32	Data Speed	2/3/4/5	1200 bps/2400 bps/4800 bps/ 9600 bps **NOTE**
21	25	29	33	Stop Bit Length	0/1/2	1 bit/1.5 bits/2 bits
22	26	30	34	Data Length	0/1	7 bits/8 bits
23	27	31	35	Parity	0/1/2	None Parity/Even Parity/Odd Parity
80	100	120	140	Function	4/5	Computer 0/Computer 1
81	101	121	141	Priority for Data Processing	0	1st
82	102	122	142	Message Format	4	NEAX 1400 IMS Format
84	104	124	144	Protocol	1	Free Wheel

NOTE: *For the Port 1 and Port 3, data speed 9600 bps cannot be set.*

If the masking of Authorization Codes sent to the SMDR terminal is required, assign the desired value to be added to the Authorization Code dialed.

For example:
To mask the Authorization Code “1234” by adding “5” to all digits:

(1) 160
(2) 5] 1st digit

(1) 161
(2) 5] 2nd digit

(1) 162
(2) 5] 3rd digit

(1) 163
(2) 5] 4th digit

With this assignment, “6789” is sent to SMDR Terminal.

(1) 160-175: Designation of digit to be masked: 1st digit-16th digit
(2) 0◀ : No masking
1-11 : Value to be added to the designated digit of Authorization Code
12 : Masking with “X”

E

E

CMD003

DESCRIPTION	DATA
Assign maximum number of Call Record sent to SMDR which is set to "4" by CMD001>80/100/120/140.	(1) 29 (2) 0◀ : Not record 1-27000 : 1 call-27000 calls
Assign maximum number of Call Record sent to SMDR which is set to "5" by CMD001>80/100/120/140.	(1) 24 (2) 0◀ : Not record 1-27000: 1 call-27000 calls

NOTE 1: *When the data is set to 1-27000, external alarm of memory overflow is available if CM44 2nd data=3001 (for CMD003>29)/CM44 2nd data=3002 (for CMD003>24) or CMEA* Y=2>28*, 38 is assigned.*

NOTE 2: *The amount of call record number set by CMD003>23, 24, 25, 26, 28, 29, 30 must not exceed the following number.*

Amount of Call Records number of CMD003 1st data 23, 24, 25, 26, 28, 29, 30			
No EXPMEM on AP00 is provided		**EXPMEM on AP00 is provided**	
When CMD001>179 is set to 0 (Local Office of Centralized Billing-CCIS/Stand-alone)	When CMD001>179 is set to 1 (Center Office of Centralized Billing-CCIS)	When CMD001>179 is set to 0 (Local Office of Centralized Billing-CCIS/Stand-alone)	When CMD001>179 is set to 1 (Center Office of Centralized Billing-CCIS)
1600	800	27000: When CMD003>28 is set to 0 (Call Record for CIS is not provided) 26000: When CMD003>28 is set to other than 0 (Call Record for CIS is provided)	

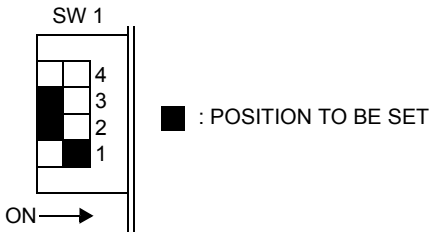
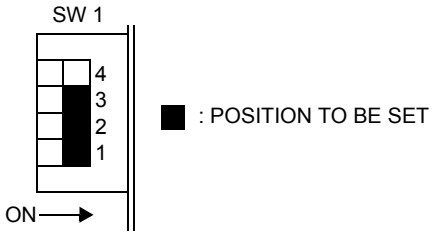
Maximum number of each 1st data of CMD003 is as follows:

1ST DATA	No EXPMEM on AP00 is provided	EXPMEM on AP00 is provided
23, 30	1000	1000
24, 25, 26, 29	1600	27000
28	1020	12000

NOTE 3: *CMD003>23, 24, 25, 26, 28, 29, 30 are effective after executing CMD102. Before executing CMD102, be sure to print out all of the stored call records. CMD102 deletes all of the stored call records.*

F

F

	DESCRIPTION	DATA
CMD102	On the AP00 card, set SW1 switch as shown below. 	SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
	Clear the billing memory. AP OFF LINE **NOTE:** *Before executing CMD102, be sure to save/print out all of the stored call records.* *CMD102 deletes all of the stored records.*	(1) 0000 (2) CCC
	On the AP00 card, set the SW1 switch as shown below. 	SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
CMD000	The buffering method when the number of the stored SMDR information has reached the pre-determined value.	(1) 41 (2) 0◀: No new data is stored 1 : New data is stored by deleting the oldest data
CM44	The external alarm driver function for the SMDR buffer overflow.	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. (2) 3001: When CMD001>80/100/120/140 is set to “4” 3002: When CMD001>80/100/120/140 is set to “5”

G

G

	DESCRIPTION	DATA
CMD012	When sending the tenant information (00-63) to the SMDR terminal, assign a Group number to each station or Attendant Console.	(1) X-XXXX: Station No. (2) 000-063: Group No. (1) 00-07: ATTCON No. 0-7 (2) 000-063: Group No.
CMD015	Assign the Charging Station Class number to each station number.	(1) X-XXXX: Station No. (2) 00◀-15: Station Class No.
CMD016	Specify the direction for sending detail information on C.O. outgoing calls.	(1) XX 16: Send detail information of C.O. outgoing calls to the PMS/SMDR terminal set to "4" by CMD001>80/100/120/140 XX : Service Class No. assigned by CMD015 (2) 0◀: Not sent 1 : To send (1) XX 17: Send detail information of C.O. outgoing calls to the SMDR terminal set to "5" by CMD001>80/100/120/140 XX : Service Class No. assigned by CMD015 (2) 0◀: Not sent 1 : To send
	Specify SMDR service for Tie Line calls, if needed.	(1) XX 21: Send detail information of Tie Line outgoing calls to the SMDR terminal set to "4" by CMD001>80/100/120/140 XX : Service Class No. assigned by CMD015 (2) 0◀: Not sent 1 : To send (1) XX 22: Send detail information of Tie Line outgoing calls to the SMDR terminal set to "5" by CMD001>80/100/120/140 XX : Service Class No. assigned by CMD015 (2) 0◀: Not sent 1 : To send

H

H

	DESCRIPTION	DATA
CMD026	Assign the Development Table number to outgoing trunk routes.	(1) 00-63: Trunk Route No. (2) 000◀-511: Development Table No.
CMD027	Specify the call information sending function to each dialed number.	(1) XXX Y XXX : 000-511: Development Table No. assigned by CMD026 Y : 0-9, A (*), B (#): Dialed Digit (2) XXX3: Refer to next digit assignment (XXX: 000-511: Next Development Table No.) 9◀ : Send to SMDR terminal
CMD033	Assign a Call Development Table number to each outgoing trunk route.	(1) 00-63: Trunk Route No. (2) 0◀-127: Call Development Table No.
CMD034	Assign the Type of Call for each dialed digit (0-9, A, B) on the basis of each Call Development Table number assigned by CMD033.	(1) XXX Y XXX : 000-127: Call Development Table No. assigned by CMD033 Y : 0-9, A (*), B (#): Dialed Digit (2) 11◀: Local call 21 : Toll call 31 : International call 91 : Tie Line call

I

To provide SMDR for incoming calls, do the following programming:

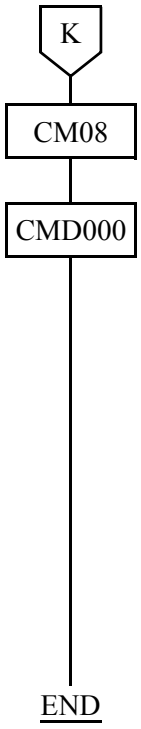
	DESCRIPTION	DATA
I		
CM13	Provide SMDR service for incoming calls to the required stations.	• Y=05 (1) X-XXXX: Station No. (2) 0 : To provide 1◀: Not provided
CM35	Provide SMDR service for incoming calls to the required trunk routes.	• Y=49 (1) 00-63: Trunk Route No. (2) 0◀: To provide
CMD000	Specify SMDR service for incoming calls with (or regardless of) Account Code entry.	(1) 70 (2) 0◀: Effective for incoming calls with Account Codes only 1 : Effective for all incoming calls
	Send ANI/Caller ID to SMDR. **NOTE:** *This is required when using AP00 card for SMDR.*	(1) 143: Sending to SMDR terminal (2) 0◀: Not sent 1 : To send **NOTE:** *When 0 is set, the ANI is not sent to the SMDR, but area code for calling party, area code for called party; authorization code is sent to the SMDR.*
CM08	Specify whether the ANI/Caller ID is sent to SMDR. **NOTE 1:** *When providing incoming calls with ANI, assign this data in addition to the programming for AUTOMATIC NUMBER IDENTIFICATION (ANI).* ☞ Page 120 **NOTE 2:** *When this data is assigned to 1, SMDR service for incoming calls is not provided even if CM13 Y=05 is 0 (To provide).*	(1) 463: ANI/Caller ID to SMDR (2) 0 : To send 1◀: Not sent
J		

J

	DESCRIPTION	DATA
CMD015	Provide the SMDR service for incoming calls by assigning an SMDR Service Class number (CMD015) and Feature activation for that Class (CMD016).	(1) X-XXXX: Station No. (2) 00◀-15: Service Class No.
CMD016		(1) XX 30: Send detail information of C.O./ Tie Line incoming calls to the SMDR terminal set to "4" by CMD001>80/100/120/140 XX : Service Class No. assigned by CMD015 (2) 0◀: Not sent 1 : To send (1) XX 55: Send detail information of C.O./ Tie Line incoming calls to the SMDR terminal set to "5" by CMD001>80/100/120/140 XX : Service Class No. assigned by CMD015 (2) 0◀: Not sent 1 : To send

K

To provide SMDR for tandem calls, do the following programming:



DESCRIPTION	DATA
Provide the system with SMDR service for tandem calls.	(1) 040 (2) 0: Available
Specify the direction for sending detail information on tandem calls.	(1) 77: Send detail information of tandem calls to the SMDR terminal set to "4" by CMD001>80/100/120/140 78: Send detail information of tandem calls to the SMDR terminal set to "5" by CMD001>80/100/120/140 (2) 0◀: Not sent 1 : To send
Specify the contents for tandem call information.	(1) 79 (2) 0◀: Only outgoing call information 1 : Both outgoing and incoming call information

To provide SMDR with AP00 for 5-digit station number, do the following programming:

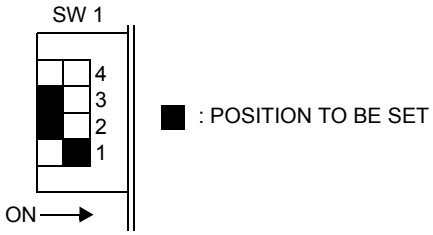
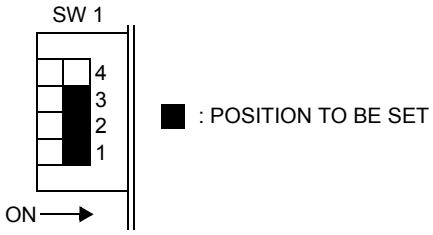
NOTE 1: *Only for the NEAX 2400 IMS format, the following programming is available.*
NOTE 2: *Be sure to assign different numbers to the last 4 digits for each 5-digit station number.*

START	DESCRIPTION	DATA
CMD000	Specify the storing of 5-digit station number in station database of AP00.	(1) 252 (2) 1: Store last 4 digits of 5-digit station number
	Add the fixed first digit to the last 4 digits of 5-digit station number on SMDR output.	(1) 71 (2) 1: To add
CMD001	Specify the first digit number to be added to 5-digit station number.	(1) 189 (2) 0-9, A (*), B (#): Digit to be added
END		

AP Initialization (PN-AP00-B/PN-AP00-D with MRCA program)

[Series 3300 software required]

This section explains the data assignment to make the AP active.
You can skip the data assignment explained on this section, if one of the following AP related features has been activated; Station Message Detail Recording (SMDR) with NEAX 2400 IMS Format, Message Center Interface (MCI) or Do Not Disturb group set/cancel at specified timing in advance. You can distinguish whether the AP is active or not by the RUN lamp indication. The RUN lamp flashes on green color when the AP is in active.
When you install the AP00 the first time, you should assign the data shown below.

START	DESCRIPTION	DATA
CM05	Assign an AP number to the AP00 card. The AP number must match the SENSE switch setting on the AP00 card. (INITIAL) On the AP00 card, set SW1 switch as shown below.  	• Y=0 (1) 04-15, 20-31: AP No. (2) 45: PN-AP00-B/PN-AP00-D card with MRCA program SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
CMDD99	Load the initial data into the AP00 card. (AP OFF LINE) On the AP00 card, set the SW1 switch as shown below.  	(1) 0000 (2) CCC SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
END		

SMDR with AP00 Programming (PN-AP00-B/PN-AP00-D with MRCA program)

[Series 3300 software required]

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2000-2099 (1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat) (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
CM04	Specify PN-AP00-B/PN-AP00-D with MRCA program as the destination to send an MP call information.	• Y=01 (1) 03: Destination to send an MP call information (2) 2: PN-AP00-B/PN-AP00-D with MRCA program
CM12	Assign Service Restriction Class A for SMDR service for station-to-station calls to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15: Service Restriction Class A
CM15	Allow SMDR service for station-to-station calls in Service Restriction Class A assigned by CM12 Y=02. **[Series 3600 software required]**	• Y=213 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 1◀: Restricted
CM12	Assign the Charging Station Class number to each station.	• Y=45 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Class No.
A		

A

	DESCRIPTION	DATA
CM60	Assign the Charging Class number to DESKCON.	• Y=32 (1) 0-7: ATTCON No. (2) 00-15◀: Class No.
CM12	Assign tenant number to each station.	• Y=04 (1) X-XXXXXXXX: Station No. (2) 00-63: Tenant No. 01◀ : Tenant No.
CM08	Assign the Pseudo-Answer signal function when the answer signal (Battery Reversal) has not been detected within the time assigned by CM41 Y=0>03 after making an outgoing trunk call. **NOTE:** *This data is effective when CM35 Y=04 is set to "1".*	(1) 123 (2) 0 : Not sent 1◀: To send
CM13	Provide the SMDR service for outgoing calls to the required stations.	• Y=06 (1) X-XXXXXXXX: Station No. (2) 1◀: To provide
CM30	Assign trunk route and tenant number to each trunk.	• Y=00 Trunk Route (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. • Y=01Tenant Allocation (1) 000-255: Trunk No. (2) 00-63: Tenant No.
CM35	Specify the type of answer signal from distant office in outgoing connection for each trunk route.	• Y=04 (1) 00-63: Trunk Route No. (2) 1 : Battery Reversal from C.O. line 2 : Answer signal arrives from Tie line/ ISDN 7◀: Answer signal does not arrive
	Provide SMDR service for outgoing calls to the required trunk route.	• Y=14 (1) 00-63: Trunk Route No. (2) 1◀: To provide
	Assign a trunk access code sent to SMDR for outgoing calls.	• Y=44 (1) 00-63: Trunk Route No. (2) 00-99: Trunk Access Code

B

B

CM08

C

DESCRIPTION

Specify the method of charging a transferred call.

The following table shows the station to which call charging is to be made in the case of various transfer patterns.

DATA

(1) 424: Charging method
(2) 0 : Charging to transferring station or destination station
1◀: Split charging to both transferring station and transfer destination station

(1) 425: Charging destination
(2) 0 : Charging to transferring station
1◀: Charging to transfer destination station

TRANSFER PATTERN		CM08>424=1	CM08>424=0	CM08>424=0
FROM	TO		CM08>425=1	CM08>425=0
STA A	STA B	Split charging to STA A and STA B	STA B	STA A
STA	ATT	STA	STA	STA
ATT	STA	STA	STA	STA
ATT A	ATT B	Split charging to ATT A and ATT B	ATT B	ATT A

STA: Station
ATT: Attendant Console

C

CMDD01

D

DESCRIPTION

Set interface condition for PN-AP00-B/ PN-AP00-D with MRCA program RS port.

AP00 INITIAL

When you set CMDD01, the following initial data is set to each port as the interface condition.

- Equipment Type: SMDR terminal 0 **NOTE**
- Data Speed: 1200 bps
- Stop Bit Length: 2 bits
- Data Length: 8 bits
- Parity: No Parity
- Station Address (SA): 0
- Unit Address (UA): !
- Message Format: Former NEAX 2400 IMS Format

NOTE: *When you set interface condition to two ports, change one of those ports of equipment type to SMDR terminal 1 by CMDD10>X00.*

DATA

(1) 100 (Port 0)
101 (Port 1)
102 (Port 2)
103 (Port 3)
(2) 3: SMDR with NEAX 2400 IMS Format

D

CMDD10

DESCRIPTION

To change the interface condition of each port set by CMDD01, assign the attribute data, according to the SMDR terminal specifications.

AP00 INITIAL

DATA

(1) X00: Equipment Type Connected to Port 0-3
X: 0-3: Port 0-3
(2) 1◀: SMDR terminal 0
2 : SMDR terminal 1

(1) X01: Data Speed for Port 0-3
X: 0-3: Port 0-3
(2) 1 : 300 bps
2◀: 1200 bps
3 : 2400 bps
4 : 4800 bps
5 : 9600 bps
6 : 19200 bps

(1) X02: Stop Bit Length for Port 0-3
X: 0-3: Port 0-3
(2) 0 : 1 bit
1 : 1.5 bits
2◀: 2 bits

(1) X03: Data Length for Port 0-3
X: 0-3: Port 0-3
(2) 0 : 7 bits
1◀: 8 bits

(1) X04: Parity for Port 0-3
X: 0-3: Port 0-3
(2) 0◀: No Parity
1 : Even Parity
2 : Odd Parity

(1) X05: Station Address (SA) for Port 0-3
X: 0-3: Port 0-3
(2) 48◀: 0

(1) X06: Unit Address (UA) for Port 0-3
X: 0-3: Port 0-3
(2) 32 : Space (No information)
33◀: !

(1) X10: Message Format for Port 0-3
X: 0-3: Port 0-3
(2) 0◀: Former NEAX 2400 IMS Format
1 : Extended NEAX 2400 IMS Format

E

E

CMDD02

DESCRIPTION	DATA
Assign maximum number of Call Record sent to SMDR terminal 0.	(1) 0 (2) 0◀ : Not record 1-23580 : 1 call-23580 calls
Assign maximum number of Call Record sent to SMDR terminal 1.	(1) 1 (2) 0◀ : Not record 1-23580 : 1 call-23580 calls

NOTE 1: *When the data is set to 1-23580, external alarm of memory overflow is available if CM44 2nd data=3001 (for CMDD02>0)/CM44 2nd data=3002 (for CMDD02>1) or CMEA* Y=2>28*, 38 is assigned.*

NOTE 2: *The amount of call record number set by CMDD02>0, 1, 2 must not exceed the following number.*

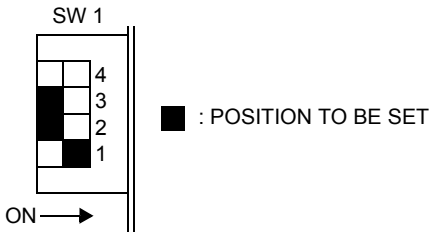
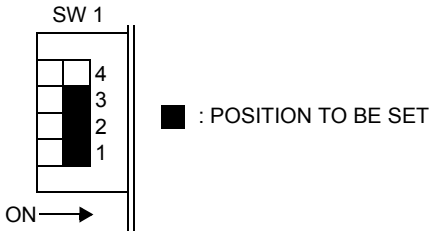
Amount of Call Records number of CMDD02 1st data 0, 1, 2			
No EXPMEM on AP00 is provided		**EXPMEM on AP00 is provided**	
CMDD00>3 is set to 0 (Local Office of Centralized Billing-CCIS/Stand-alone)	CMDD00>3 is set to 1 (Center Office of Centralized Billing-CCIS)	CMDD00>3 is set to 0 (Local Office of Centralized Billing-CCIS/Stand-alone)	CMDD00>3 is set to 1 (Center Office of Centralized Billing-CCIS)
2620	1310	23580	22270

NOTE 3: *CMDD02>0, 1, 2 are effective after executing CMDD98. Before executing CMDD98, be sure to print out all of the stored call records. CMDD98 deletes all of the stored call records.*

F

F

CMDD98

DESCRIPTION	DATA
On the AP00 card, set SW1 switch as shown below. 	SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
Clear the billing memory. (AP OFF LINE)	(1) 0000 (2) CCC
NOTE: *Before executing CMDD98, be sure to save/print out all of the stored call records.* *CMDD98 deletes all of the stored records.*	
On the AP00 card, set the SW1 switch as shown below. 	SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31

G

G

	DESCRIPTION	DATA
CMDD01	Specify maximum accumulation rate of billing memory for external alarm output when the rate exceeds assigned value.	(1) 229 (2) 50-99: 50%-99% 80◀ : 80%

NOTE 1: *The condition for external alarm is as follows;*
(a) The accumulation rate for the following limit value approaches the value set by CMDD01>229 in advance.
(b) The accumulation rate for the following limit value approaches full.
(c) The accumulation rate for the following limit value is less than the assignable range set by CMDD01>229 or is cleared the stored billing memory.

[Limit Value]
- Limit value of remaining Call Record memory set by CMDD02>0/1/2

NOTE 2: *ON/OFF control for external relay on DK00 card and fault information display can be performed with the condition for external alarm as above.*
For case (a): External relay ON/OFF set by CMDD00>126
Fault information display set by CMEA Y=2>28
For case (b): External relay ON/fault information display set by CMEA Y=2>28
For case (c): External relay OFF/fault information display set by CMEA Y=2>38

CMDD04	Specify the direction for sending detail information on C.O./Tie Line outgoing calls.	(1) XX 00: Send detail information of C.O./Tie Line outgoing calls to SMDR terminal 0 XX: Service Class No. assigned by CM12 Y=45/CM60 Y=32 (2) 0◀: Not sent 1 : To send (1) XX 02: Send detail information of C.O./Tie Line outgoing calls to SMDR terminal 1 XX: Service Class No. assigned by CM12 Y=45/CM60 Y=32 (2) 0◀: Not sent 1 : To send

H

H

CMDD04

DESCRIPTION	DATA
Specify the direction for sending detail information on outgoing calls excluding C.O./Tie Line outgoing calls. **[Series 3500 software required]**	(1) XX 01: Send detail information of outgoing calls excluding C.O./Tie Line outgoing calls to SMDR terminal 0 XX : Service Class No. assigned by CM12 Y=45/CM60 Y=32 (2) 0◀: Not sent 1 : To send (1) XX 03: Send detail information of outgoing calls excluding C.O./Tie Line outgoing calls to SMDR terminal 1 XX : Service Class No. assigned by CM12 Y=45/CM60 Y=32 (2) 0◀: Not sent 1 : To send
Specify the direction for sending detail information on station-to-station calls. **[Series 3600 software required]**	(1) XX 12: Send detail information of station-to-station calls to SMDR terminal 0 XX : Service Class No. assigned by CM12 Y=45 (2) 0◀: Not sent 1 : To send (1) XX 13: Send detail information of station-to-station calls to SMDR terminal 1 XX : Service Class No. assigned by CM12 Y=45 (2) 0◀: Not sent 1 : To send

I

I

	DESCRIPTION	DATA
CMDD00	For SMDR terminal 0, specify the buffering method when the number of the stored SMDR information has reached to the predetermined value.	(1) 4 (2) 0◀: New data is stored by deleting the oldest data 1 : No new data is stored
	For SMDR terminal 1, specify the buffering method when the number of the stored SMDR information has reached to the predetermined value.	(1) 5 (2) 0◀: New data is stored by deleting the oldest data 1 : No new data is stored
	Specify whether the information sent to the SMDR is metering pulse or charging rate. **[Series 3500 software required]**	(1) 14 (2) 0◀: Metering Pulse 1 : Charging Rate
	Specify control of External alarm relay (DK) when the accumulation rate of billing memory exceeds the value set by CMDD01>229.	(1) 126 (2) 0◀: Relay ON/OFF (every 0.5 seconds) 1 : Relay ON
	Specify whether the access code is added in Call Record.	(1) 161 (2) 0◀: Not added 1 : To add
CMDD03	Assign the area code for the calling party for Call Record.	(1) 55 (2) 0000-9999: Area Code for Calling Party
	Assign the area code for the billing office for Call Record.	(1) 56 (2) 0000-9999: Area Code for Billing Office

J

To provide SMDR for incoming calls, do the following programming:

	DESCRIPTION	DATA
J		
CM13	Provide SMDR service for incoming calls to the required stations.	• Y=05 (1) X-XXXXXXXX: Station No. (2) 0: To provide
CM35	Provide SMDR service for incoming calls to the required trunk routes.	• Y=49 (1) 00-63: Trunk Route No. (2) 0: To provide
	Provide SMDR output for abandoned incoming calls to the required trunk routes. **[Series 3500 software required]**	• Y=205 (1) 00-63: Trunk Route No. (2) 0: To provide
CM08	Specify whether the SMDR service is effective only for incoming calls with Account Code or not.	(1) 426: SMDR for incoming call (2) 0 : Effective for all incoming calls 1◀: Effective only for incoming calls with Account Code
CM12	Assign the Charging Station Class number to each station.	• Y=45 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Station Class No.
CM60	Assign the Charging Class number to DESKCON.	• Y=32 (1) 0-7: ATTCON No. (2) 00-15◀: Class No.
CMDD04	To provide SMDR for incoming calls, do the following programming.	(1) XX 06: Send detail information of C.O./Tie Line incoming calls to SMDR terminal 0 XX: Service Class No. assigned by CM12 Y=45/CM60 Y=32 (2) 0◀: Not sent 1 : To send
K		

K

	DESCRIPTION	DATA
CMDD04		(1) XX 07: Send detail information of C.O./ Tie Line incoming calls to SMDR terminal 1 XX: Service Class No. assigned by CM12 Y=45/CM60 Y=32 (2) 0◀: Not sent 1 : To send (1) XX 09: Send incomplete call information of C.O./Tie Line incoming calls to SMDR terminal 0 XX: Service Class No. assigned by CM12 Y=45/CM60 Y=32 (2) 0◀: Not sent 1 : To send (1) XX 10: Send incomplete call information of C.O./Tie Line incoming calls to SMDR terminal 1 XX: Service Class No. assigned by CM12 Y=45/CM60 Y=32 (2) 0◀: Not sent 1 : To send
CMDD00	Specify whether ANI/Caller ID is sent to SMDR. **NOTE 1:** *CMDD00>163 is not required for Extended NEAX 2400 IMS Format (ANI is always sent in Extended Format).* **NOTE 2:** *When 0 is set for Former Format, ANI is not sent to SMDR, but area code for calling party, area code for called party; authorization code is sent to the SMDR.*	(1) 163 (2) 0◀: Not sent 1 : To send

L

L

	DESCRIPTION	DATA
CM08	Specify whether the ANI/Caller ID is sent to SMDR. **NOTE 1:** *When providing incoming calls with ANI, assign this data in addition to the programming for AUTOMATIC NUMBER IDENTIFICATION (ANI).* ☞ Page 120 **NOTE 2:** *When this data is available to 1, SMDR service for incoming calls is not provided even if CM13 Y=05 is 0 (To provide).*	(1) 463: ANI/Caller ID to SMDR (2) 0 : To send 1◀: Not sent

M

To provide SMDR for tandem calls, do the following programming:

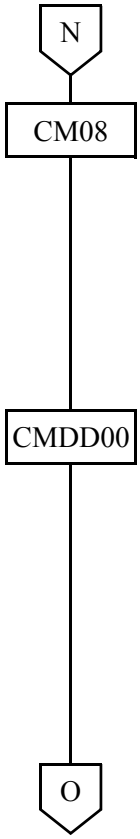
M

	DESCRIPTION	DATA
CM08	Provide the system with SMDR service for tandem calls.	(1) 040 (2) 0: Available
CMDD00	Specify the direction for sending detail information on tandem calls.	(1) 0: Send detail information of tandem call to SMDR terminal 0 (2) 0◀: Not sent 1 : To send (1) 1: Send detail information of tandem call to SMDR terminal 1 (2) 0◀: Not sent 1 : To send
	Specify whether account code is sent in the Authorization Code Area of Call Record.	(1) 160 (2) 0◀: Not sent 1 : To send

N

To provide SMDR for abandoned incoming calls, do the following programming:
[Series 3500 software required]

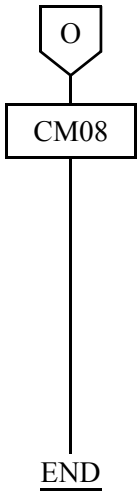
NOTE: *To provide SMDR output of abandoned incoming call, the following conditions are required.*
- SMDR format : Extended NEAX2400 IMS format (CMDD10>X10: 1)
- MP program : Series 3500 software or later
- AP00 program: AP00B MRC-E or later



DESCRIPTION	DATA
Specify whether the SMDR service for incoming calls of each station (assigned by CM13 Y=05) is effective or not. **NOTE:** *To provide the SMDR for abandoned incoming calls, assign the second data of CM08>823 to 0 (Ineffective).*	(1) 823 (2) 0 : Ineffective 1◀: Effective
Specify the direction for sending detail information on abandoned incoming calls.	(1) 11: Send detail information of abandoned incoming call to SMDR terminal 0 (2) 0◀: Not sent 1 : To send (1) 12: Send detail information of abandoned incoming call to SMDR terminal 1 (2) 0◀: Not sent 1 : To send

To provide SMDR for Call Forwarding-All Calls/Busy Line/No Answer-Outside calls from virtual station number, do the following programming:

[Series 3800 software required]



DESCRIPTION	DATA
Specify whether the virtual station number (CM11) is sent to SMDR when the call to the virtual station is transferred by Call Forwarding-All Calls/Busy Line/No Answer-Outside. **NOTE:** *When the second data of CM08>849 is set to 1, originating station number/incoming trunk number is sent to SMDR.*	(1) 849 (2) 0 : To send 1◀: Not sent

STATION SPEED DIALING

(1) To provide Single Line Telephone or D^{term}:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Station Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	• Y=07 (1) 00-15: Service Restriction Class A (2) 1◀: Allow
CM20	Assign access codes for Station Speed Dialing, Origination, Entry and Cancel, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (#*, 7*, 7#) (2) A064: Origination A065: Entry A066: Cancel
CM08	Specify whether to provide Toll Restriction for an outgoing call by Station Speed Dialing.	(1) 035 (2) 0 : Not provided 1◀: To provide
	Specify whether to set "#" dialing as paused data (1.5 seconds) or called number to C.O. line when DTMF station or D^{term} dials "#" in the setting of Station Speed Dialing feature.	(1) 168 (2) 0 : Paused data (1.5 seconds) 1◀: Dialed digit
	Specify "*" dialing is set as programmable pause by CM41 Y=0>38 or dialed digit when the DTMF station or D^{term} dials "*" in the setting of the Station Speed Dialing feature.	(1) 171 (2) 0 : Programmable pause by CM41 Y=0>38 1◀: Dialed digit
CM41	Assign the Programmable pause of Station Speed Dialing.	• Y=0 (1) 38 (2) 00-07: 1.5-12 seconds (1.5 second increments) If no data is set, the default setting is 1.5 seconds.
A		

A

CM73

B

DESCRIPTION	DATA
Allocate the memory area for Station Speed Dialing to each station.	(1) X-XXXXXXXX: Station No. (2) W XX Y ZZ W : 0-9: 1000-Slot Memory Block No. XX: 00-99: Memory Start Block No. (10-Slot Memory Block) Y : Facility for programming the dialed number from the Station 0/1: Effective/Ineffective ZZ : 01-10: Number of 10-Slot Memory Blocks

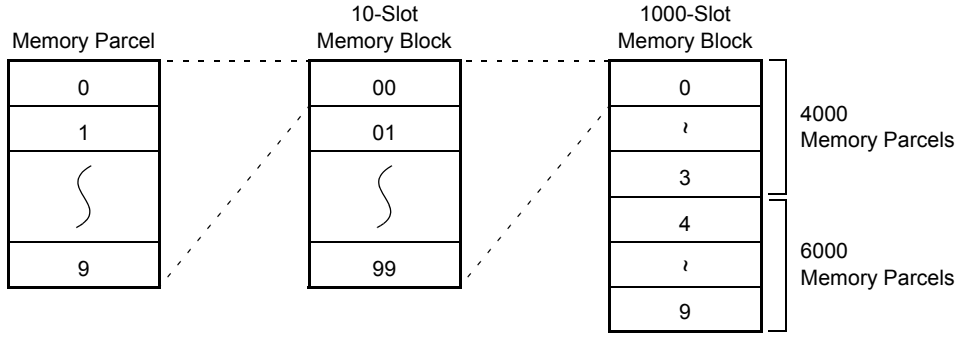
NOTE: *1000-Slot Memory Block number 4-9 (6000 Memory Parcels) cannot be used for Speed Dialing with Station Speed Dialing keys provided by CM90: F11XX on a D^{term}, and cannot also be used for System Speed Dialing.*

B

CM73

DESCRIPTION **DATA**

The memory area for storing one called number of Station Speed Dialing is called a "Memory Parcel". An assembly of 10 Memory Parcels is called a "10-Slot Memory Block," and one hundred 10-Slot Memory Blocks are called a "1000-Slot Memory Block".



Example: If the stored number intended is 10 for Station Number 300, 20 for Station Number 301, and 30 for Station Number 302, the memory areas assignment is as follows.

Station No. (1st Data)	1000-Slot Memory Block No. (2nd Data: W)	Memory Start Block No. (10-Slot Memory Block) (2nd Data: XX)	Number of 10-Slot Memory Block (2nd Data: ZZ)
300	0	00	01
301	0	01	02
302	0	03	03
303	0	06	01

C

C

CM73

DESCRIPTION	DATA

The abbreviated codes for this feature are automatically determined by assigning this command, on a station basis.
If the number of Memory Parcels per station does not exceed 10, then Abbreviated Code=0-9.
If the number of Memory Parcels per station exceeds 11, then Abbreviated Code=00-99.
The following figure shows the relation between Abbreviated Codes and Memory Parcels.

In the case of 10 Memory Parcels

	Memory Parcel Number	(Abbreviated Code)
10-Slot Memory Block	0	0
	1	1
	2	2
	3	3
	4	4
	5	5
	˜	˜
	9	9

In the case of 20 Memory Parcels

	Memory Parcel Number	(Abbreviated Code)
10-Slot Memory Block	0	00
	1	01
	˜	˜
	9	09
10-Slot Memory Block	0	10
	1	11
	˜	˜
	9	19

D

D

	DESCRIPTION	DATA
CM74	Assign the number to be dialed to each Memory Slot number, if required. The numbers to be called are usually set from individual stations by their station users.	• Y=0 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) Stored No.: Outgoing Call Access Code (Maximum 4 digits) + [,] + Called Party's No. (Maximum 26 digits) To set a pause into the Stored No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0>38) after desired digits. NONE◀: No data
	Assign the station name to be displayed to each Memory Slot number, by character codes or character.	• Y=1 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ Page B2 • Y=2 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character (Maximum 16 characters) NONE◀: No data

E

E

CM90

END

DESCRIPTION	DATA
Assign Station Speed Dialing keys on each D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F11XX XX: 00-99: Station Speed Dialing 00-99

NOTE: *The initial setting of key layout is for 16 Line/Trunk/Feature keys (Key No. 01-16).*
When using Key No. 17-24, data setting of CM12 Y=24, 2nd data=0 is required.
After the 2nd data of CM12 Y=24 is changed, pull out and reconnect the modular connector of the D^{term}.

(2) To provide D^{term} with One Touch keys:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Station Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	• Y=07 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM08	Specify whether to provide Toll Restriction for an outgoing call by Station Speed Dialing.	(1) 035 (2) 0 : Not provided 1◀: To provide
	Specify whether to set "#" dialing as paused data (1.5 seconds) or called number to C.O. line when D^{term} dials "#" in the setting of Station Speed Dialing feature.	(1) 168 (2) 0 : Paused data (1.5 seconds) 1◀: Dialed digit
	Specify whether to set "*" dialing as programmable pause by CM41 Y=0>38 or dialed digit when DTMF station or D^{term} dials "*" in the setting of Station Speed Dialing feature.	(1) 171 (2) 0 : Programmable pause by CM41 Y=0>38 1◀: Dialed digit
CM41	Assign the pause for Station Speed Dialing.	• Y=0 (1) 38 (2) 00-07: 1.5-12 seconds (1.5 second increments) If no data is set, the default setting is 1.5 seconds.
A		

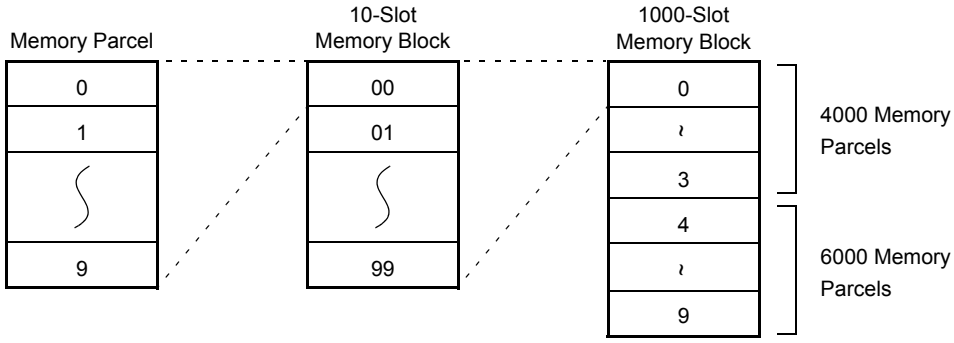
A

CM94

DESCRIPTION	DATA
Allocate the memory area for Station Speed Dialing by D^{term} One Touch keys to each station. The memory block for storing one called number of Station Speed Dialing is called a "Memory Parcel". An assembly of 10 Memory Parcels is called a "10-Slot Memory Block," and one hundred 10-Slot Memory Blocks are called a "1000-Slot Memory Block".	(1) X-XXXXXXXX: My Line No. (2) W XX 0 ZZ W : 0-9: 1000-Slot Memory Block No. XX: 00-99: 10-Slot Memory Start Block No. ZZ : 01/02: Number of 10-Slot Memory Blocks (10 memories/20 memories)

NOTE 1: *Station Speed Dialing by dial access and by D^{term} One Touch keys uses the common memory area. Be sure to allocate the different memory area by CM94 from the memory area set by CM73.*

NOTE 2: *If the station is assigned to One Touch keys using 1000-Slot Memory Block number 4-9, the lamp does not show the busy state.*



END

(3) To provide the One Touch key to send "Hooking Signal + Called Number" to a Centrex, set the following data in addition to the programming (2).

START	DESCRIPTION	DATA
CM20	Assign the access code for sending of a Hooking signal to a Centrex. Maximum of two digits are available.	• Y=0-3 (1) X-XXXX: Access code (2) A158: Hooking signal to a Centrex
CM90	Assign a RECALL key on the D^{term}. RECALL key is used to return to a former line.	• Y=00 (1) My Line No. + [,] + Key No. (90) (2) F1015: RECALL◀
CM35	Provide Centrex trunk route with Centrex function.	• Y=86 (1) 00-63: Trunk Route No. (2) 0: Centrex
END		

(4) To provide the One Touch key to send "Called Number + DTMF Signal" for such as VMS operation, set the following data in addition to the programming (2), when the called number includes a trunk access code. If the called number includes no trunk access code, this data is not required.

START	DESCRIPTION	DATA
CM08	Specify whether to set consecutive dialing "* #" as a delimiter between the called number and the DTMF signal.	(1) 448 (2) 0 : * # set as dialed digit 1◀: Delimiter between called number and DTMF signal
END		

STEP CALL

PROGRAMMING

START

CM08

END

DESCRIPTION	DATA
Provide the system with the Step Call feature.	(1) 069: For internal Call (2) 1◀: Available
NOTE: *This feature is mutually exclusive with the single digit feature access code.*	(1) 163: For Tie Line incoming call (2) 1◀: Available
	(1) 208 **NOTE** (2) 1◀: Not available

SUPERVISORY CONTROL OF PERIPHERAL EQUIPMENT

PROGRAMMING

START	DESCRIPTION	DATA
CM13	Provide the station connected to the peripheral equipment with momentary reversal/open capability.	• Y=22 (1) X-XXXXXXXX: Station No. (2) 0: To provide
CM41	Specify the duration of the momentary reversal/open.	• Y=1 (1) 08 (2) 01-10: 256-1408 ms. (128 ms. increments) If no data is set, the default setting is 256-384 ms.
END		

SYSTEM CLOCK SETUP BY STATION DIALING

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to a required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow System Clock Setup by Station Dialing in Service Restriction Class A assigned by CM12 Y=02.	• Y=130 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
CM20	Assign the access code for System Clock Setup by Station Dialing.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A197: System Clock Setup by Station Dialing
CM90	Assign a System Clock Setup by Station Dialing key to D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0A97: System Clock Setup by Station Dialing
END		

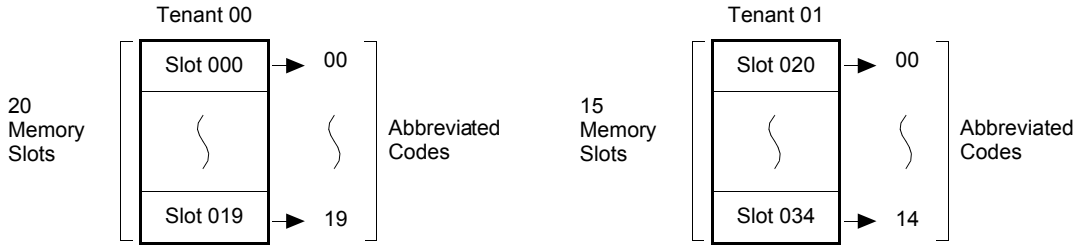
SYSTEM SPEED DIALING

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow System Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	• Y=06 System Speed Dialing (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the Access Code for System Speed Dialing.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (##) (2) A067: System Speed Dialing origination (300-Slot Memory Block)
CM90	Assign an access key for System Speed Dialing to the D^{term}s, as needed.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0067: System Speed Dialing origination (300-Slot Memory Block)
A		

A

	DESCRIPTION	DATA
CM71	Allocate the memory block for System Speed Dialing. 300 memory slots are available per system. The number of slots available for each Tenant is also 300. Note that the memory blocks for Hot Line-Outside and Route Advance (from Tie Line to C.O. Line) are included in 300 memory slots. Abbreviated Codes for this feature are automatically determined by assigning this command, on each Tenant as shown in the following example.	(1) 00-63: For stations in Tenant 00-63 64 : For Attendant Console (2) XXX YYY **NOTE** XXX: 000-299: First Memory Slot No. in Block YYY: 001-300: Number of Slots to be allocated in Block For example, to provide 20 memory slots starting at Slot 60: Data: 060020



NOTE: *The Resident System Program allocates 100 memory slots to Tenant 01.*

CM72	Assign the station number to be called to the Memory Slot number allocated by CM71.	• Y=0 (1) 000-299: Memory Slot No. (2) Stored No.: Outgoing Access Code (Maximum 4 digits) + [,] + Called Party's No. (Maximum 26 digits) To set a pause into the Stored No., enter "C" (Fixed pause=1.5 seconds) or "D" (Programmable pause specified by CM41 Y=0>38) after desired digits (more than 2 digits). NONE◀: No data

B

	DESCRIPTION	DATA
B		
CM72	Assign the station name for display, to the Memory Slot number allocated by CM71, by character codes or character.	• Y=1 (1) 000-299: Memory Slot No. (2) XX...XX: Station Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=2 (1) 000-299: Memory Slot No. (2) XX...XX: Station Name Character (Maximum 16 characters) NONE◀: No data
CM08	Specify System Speed Dialing security. (Stored number displays on D^{term} for an outgoing call by System Speed Dialing.)	(1) 043 (2) 0 : Not displayed 1◀: To display
	Specify Toll Restriction for an outgoing call by System Speed Dialing, if required.	(1) 044 (2) 0 : Not provided 1◀: To provide
END		

To use the 1000-Slot Memory Block number (0-3) for Station Speed Dialing as the Memory Block for System Speed Dialing, add the following programming.

START	DESCRIPTION	DATA
CM08	Specify the 1000-Slot Memory Block number 0-3.	(1) 112: 1000-Slot Memory Block No. 0 (2) 0 : Available 1◀: Not available (1) 111: 1000-Slot Memory Block No. 1 (2) 0 : Available 1◀: Not available (1) 176: 1000-Slot Memory Block No. 2 (2) 0 : Available 1◀: Not available (1) 110: 1000-Slot Memory Block No. 3 (2) 0 : Available 1◀: Not available
CM20	Assign the Access Code for System Speed Dialing.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A152: 1000-Slot Memory Block No. 0 A151: 1000-Slot Memory Block No. 1 A068: 1000-Slot Memory Block No. 2 A150: 1000-Slot Memory Block No. 3
CM90	Assign an access key for System Speed Dialing to the D^{term}s, as needed.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0068: System Speed Dialing origination (1000-Slot Memory Block)
A		

A

CM74

DESCRIPTION	DATA
Assign the stored number to each Memory Slot number.	• Y=0 (1) X YY Z X : 0-3: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) Stored No.: Outgoing Call Access Code (Maximum 4 digits) + [,] + Called Party's No. (Maximum 26 digits) To set a pause into the stored No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0>38) after desired digits. NONE◀: No data
Assign the station name to be displayed to each Memory Slot number, by character codes or character.	• Y=1 (1) X YY Z X : 0-3: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ Page B2 • Y=2 (1) X YY Z X : 0-3: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character (Maximum 16 characters) NONE◀: No data

END

To provide System Speed Dialing with 4-digits/1-8-digits abbreviated code, do the following programming.

[Series 3300 software required]

NOTE: *The system speed dialing with 1-8-digits abbreviated code is available for Series 3600 software or later.*

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow System Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	• Y=06 System Speed Dialing (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM42	Specify the number of digits for the abbreviated code of System Speed Dialing origination. **[Series 3600 software required]**	(1) 77 (2) 01-08 : 1-8 digits NONE◀: 4 digits
CM20	Assign the Access Code for System Speed Dialing.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (##) (2) A243: System Speed Dialing origination (4-digits/1-8-digits Abbreviated Code: depends on CM42>77)
CM90	Assign an access key for System Speed Dialing to the D^{term}s, as needed.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0B43: System Speed Dialing origination (4-digits Abbreviated Code)
A		

A

CM74

DESCRIPTION	DATA
Assign the stored number to each Memory Slot number.	• Y=0 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) Stored No.: Outgoing Call Access Code (Maximum 4 digits) + [,] + Called Party's No. (Maximum 26 digits) To set a pause into the stored No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0>38) after desired digits. NONE◀: No data
Assign the station name to be displayed to each Memory Slot number, by character codes or character.	• Y=1 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character Code (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX B: Character Code Table. ☞ Page B2 • Y=2 (1) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. (2) XX...XX: Station Name Character (Maximum 16 characters) NONE◀: No data

B

B

	DESCRIPTION	DATA
CM74	Assign the abbreviated code to each Memory Slot number that is assigned the stored number by CM74 Y=0.	• Y=5 (1) X-XXXXXXXX: Abbreviated Code X: 0-9 (2) X YY Z X : 0-9: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No. NONE◀: No data

NOTE 1: *4-digit (Fixed) abbreviated code is used for Series 3300 to 3500 software.*
1-8-digit abbreviated code is used for Series 3600 software or later.

NOTE 2: *Memory area of System Speed Dialing with 1-8-digit abbreviated code is also used as the memory area of Station Speed Dialing. Do not assign the same Memory Slot number of System Speed Dialing with 1-8-digit abbreviated code (set by CM74 Y=0) as Memory Slot number of Station Speed Dialing (set by CM73).*

NOTE 3: *Set the same number of digits as the digits of abbreviated code assigned by CM42>77 to the second data.*

NOTE 4: *When setting the number of digits for abbreviated code to 5-8, the minimum number of the abbreviated code that can be registered to the memory area is as follows.*
- *5-digit abbreviated code: 500*
- *6-digit abbreviated code: 333*
- *7-digit abbreviated code: 250*
- *8-digit abbreviated code: 200*

CM08	Specify System Speed Dialing security. (Stored number displays on D^{term} for an outgoing call by System Speed Dialing.)	(1) 043 (2) 0 : Not displayed 1◀: To display
	Specify Toll Restriction for an outgoing call by System Speed Dialing, if required.	(1) 044 (2) 0 : Not provided 1◀: To provide

END

TENANT SERVICE

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign a Tenant number to each station.	• Y=04 (1) X-XXXXXXXX: Station No. (2) 00 : Tenant No. 00 01◀-63: Tenant No. 01-63
CM30	Assign a Tenant number to each trunk.	• Y=01 (1) 000-255: Trunk No. (2) 00 : Tenant No. 00 01◀-63: Tenant No. 01-63
CM29	Assign a Numbering Plan Group number to each Tenant.	(1) 00-63: Tenant No. (2) 710-713: Numbering Plan Group 0-3
CM20	Assign required access codes for each Numbering Plan Group. To provide a trunk route for each Tenant, assign Tenant Block 00-23 to desired Trunk Route access code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A000-A097 801-818 A100-A152 100-163 300-323: Tenant Block 00-23
CM23	When Tenant Block 00-23 is assigned by CM20, assign a trunk route and Tenant number to the Tenant Block.	• Y=00-23 Tenant Block 00-23 (1) 00-63: Tenant No. (2) 100-163: Trunk Route 00-63
CM10	When an External Key for Day/Night Mode change or Class of Service change is required, assign the DK card to required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (level 0) and the third LEN (Level 2).*	(1) 000-763: LEN (2) E900-E963 : DK Card No. For PIM0/1: E900-E915 For PIM2/3: E916-E931 For PIM4/5: E932-E947 For PIM6/7: E948-E963 **NOTE 2:** *Circuit No. 3 of E963 is used for built-in External Key Interface of MP card by setting CM61.*
A		

	DESCRIPTION	DATA
A		
CM14	When an External Key for Day/Night Mode change or Class of Service change is required, assign the DK card to required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The DK card number must be assigned to the first LEN (level 0) and the third LEN (Level 2).*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) E900-E963 : DK Card No. For FP No. 00: E900-E915 For FP No. 01: E916-E931 For FP No. 02: E932-E947 For FP No. 03: E948-E963 **NOTE 2:** *Circuit No. 3 of E963 is used for built-in External Key Interface of MP card by setting CM61.*
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
CM61	To provide external keys for Day/Night Mode change or Class of Service change, assign a Tenant number to the DK card.	• Y=00 (1) XX Z XX: 00-31: DK Card No. assigned by CM10/CM14 (E900-E963) Z : 0-3: Circuit No. 633: MP Built-in External Key Interface (2) 00-63: Tenant No.
CM62	Specify the Tenants to be handled by each ATTCON Group. (INITIAL)	• Y=0-3 ATT Group 0-3 assigned by CM60 Y=00 (1) 00-63: Tenant No. (2) 0 : To handle 1◀: Not handled
B		

B

CM63

END

DESCRIPTION	DATA
Specify whether Inter-Tenant connection is available for station to station calling, Incoming Call Termination and TAS answer.	• Y=0 TAS Answer (1) XX ZZ XX: Tenant No. of TAS Answer Station ZZ : Tenant No. of Trunk (2) 0 : Allow 1◀: Restricted • Y=1 Station-to-Station Calling (1) XX ZZ XX: Tenant No. of Calling Station ZZ : Tenant No. of Called Station (2) 0 : Restricted 1◀: Allow • Y=2 Incoming Call Termination (1) XX ZZ XX: Tenant No. of Called Station ZZ : Tenant No. of Trunk (2) 0 : Restricted 1◀: Allow

TIE LINES

PROGRAMMING

START	DESCRIPTION	DATA
CM10	Assign a trunk number for the ODT card to the required LEN. **NOTE:** *The trunk number must be assigned to the first LEN (Level 0) and the second LEN (Level 1) of each LT slot.*	(1) 000-763: LEN (2) D000-D255: Trunk No.
CM14	Assign a trunk number for the ODT card to the required LEN. **[Series 3200 R6.2 software required]** **NOTE:** *The trunk number must be assigned to the first LEN (Level 0) and the second LEN (Level 1) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) D000-D255: Trunk No.
CM20	Assign a trunk route access code to each Tie Line trunk route.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (81/82) (2) 100-163: Trunk Route 00-63 (01/02)
CM30	Assign a trunk route and tenant number to each trunk.	• Y=00 (1) 000-255: Trunk No. (2) 00-63: Trunk Route No. (01/02) • Y=01 (1) 000-255: Trunk No. (2) 00-63: Tenant No. (00/00)
CM35	Assign trunk route data to the trunk route number assigned by CM30 Y=00. **NOTE 1:** *All circuits in one ODT card must be set to same type interface (2-wire or 4-wire).* **NOTE 2:** *For Type II signaling by 4ODT card, set JP1-4 switch to DOWN.*	• Y=105 2-wire E&M/4-wire E&M Trunk (1) 00-63: Trunk Route No. (2) 0 : 2-wire E&M Trunk 1◀: 4-wire E&M Trunk • Y=104 Polarity of E&M Trunk (1) 00-63: Trunk Route No. (2) 1 : E wire (Open), M wire (Open), Signaling (Type V) 2 : E wire (Ground), M wire (Battery), Signaling (Type I) 3◀: E wire (Ground), M wire (Ground), Signaling (Type V/Type II) **NOTE 2** **[Series 3300 software required]**
A		

A

CM35

DESCRIPTION	DATA
When you use the ODT card for 2-wire E&M trunk, set CM35 Y=100 to 14/15. (INITIAL)	• Y=100 Terminating and Balanced Network Impedance (1) 00-63: Trunk Route No. (2) 14: 2-wire E&M Trunk (for regular) 15: 2-wire E&M Trunk (for long line) NONE◀: For regular
NOTE: *When using Series 3600 software or later, a reset of the MP card is not required after this command is set/ changed.* *When changing the data with online, the data is valid after the trunk card is unplugged and plugged in.*	
Assign trunk route data to the trunk route number assigned by CM30 Y=00.	• Y=00 Kind of Trunk Route (1) 00-63: Trunk Route No. (01/02) (2) 04: Tie Line • Y=01 (1) 00-63: Trunk Route No. (01/02) < Incoming > < Outgoing > (2) 2 : DP-10PPS DP-10PPS 4 : DTMF DTMF 7◀: DTMF/DP DTMF • Y=02 IC/OG (1) 00-63: Trunk Route No. (01/02) (2) 1 : Incoming trunk 2 : Outgoing trunk 3◀: Bothway trunk • Y=04 Answer Signal from distant office (1) 00-63: Trunk Route No. (01/02) (2) 2 : Arrive 7◀: Not arrive • Y=05 Release Signal from distant office (1) 00-63: Trunk Route No. (01/02) (2) 1◀: Arrive • Y=08 Sending of Dial Pulse (1) 00-63: Trunk Route No. (01/02) (2) 3◀: Send

B

B

CM35

DESCRIPTION	DATA
	• Y=09 Incoming Connection Signaling (1) 00-63: Trunk Route No. (01/02) (2) 03: Wink Start 04: Delay Dial 05: Immediate Start 06: 2nd Dial Tone/Timing Start • Y=10 2nd DT sending on call termination (1) 00-63: Trunk Route No. (01/02) (2) 0 : No Tone 1◀: 2nd Dial Tone • Y=13 Maximum Number of Sending Digits (1) 00-63: Trunk Route No. (2) 001-254: 1-254 digits If no data is set, sender is released when time out occurs or the called station answers.
Assign the appropriate data for the characteristic of the distant PBX.	• Y=20 Sender start condition (1) 00-63: Trunk Route No. (01/02) (2) 00 :Wink Start 01 :Delay Dial 15◀: Timing Start (Prepause per CM35 Y=21) The above data should be set to each route according to the data for CM35 Y=09, as shown below. Data for CM35 Y=09 → Data for CM35 Y=20 03 → 00 04 → 01 05 → 15 06 → 15 • Y=21 Sender Prepause Timing (1) 00-63: Trunk Route No. (2) 00: 0 second 08 : 6.0 seconds 01: 0.5 seconds 09 : 7.0 seconds 02: 1.0 second 10 : 8.0 seconds 03: 1.5 seconds 11 : 9.0 seconds 04: 2.0 seconds 12 : 10.0 seconds 05: 2.5 seconds 13 : 11.0 seconds 06: 4.0 seconds 14 : 12.0 seconds 07: 5.0 seconds 15◀: 3.0 seconds

C

C

CM35

DESCRIPTION	DATA
When CM35 Y=01 is 2, assign the data for the DP Sender Characteristics.	• Y=23 DP Sender Inter Digital Pause (1) 00-63: Trunk Route No. (2) 0 : 300 ms. 1 : 400 ms. 2 : 500 ms. 3 : 600 ms. 4 : 700 ms. 5 : 900 ms. 6 : 1100 ms. 7◀: 800 ms. • Y=25 DP Sender Make Ratio (1) 00-63: Trunk Route No. (2) 0 : 39 % Make Ratio 1◀: 33 % Make Ratio • Y=45 DP Sender Release Timing (1) 00-63: Trunk Route No. (2) 0 : 2 seconds 1 : 4 seconds 2 : 6 seconds 3 : 8 seconds 4 : 12 seconds 5 : 14 seconds 6 : 16 seconds 7◀: 10 seconds
When CM35 Y=01 is 4, assign data for the DTMF Sender Characteristics.	• Y=24 DTMF Sender Inter Digital Pause (1) 00-63: Trunk Route No. (2) 0 : 32 ms. 1 : 64 ms. 2 : 80 ms. 3 : 96 ms. 4 : 160 ms. 5 : 192 ms. 6 : 240 ms. 7◀: 128 ms. • Y=26 DTMF Sender Signal Width (1) 00-63: Trunk Route No. (2) 0 : 64 ms. 1◀: 128 ms.

D

D

CM35

DESCRIPTION	DATA
	• Y=46 DTMF Sender Release Timing (1) 00-63: Trunk Route No. (2) 0 : 2 seconds 1 : 4 seconds 2 : 6 seconds 3 : 8 seconds 4 : 12 seconds 5 : 14 seconds 6 : 16 seconds 7◀: 10 seconds
Specify the desired Station Ringing Cadence.	• Y=33 Ringing Cadence (1) 00-63: Trunk Route No. (2) 2 : 1 second ON-2 seconds OFF 3◀: 2 seconds ON-4 seconds OFF To make this data assignment effective enter the data "1" for CM08>180.
Specify the Ringer Tone Pattern of the D^{term} to each trunk route.	• Y=34, 164 Ringer Tone Pattern (1) 00-63: Trunk Route No. (2) See the table below. **[Series 3200 R6.1 software required]**

Y=34	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

E

E

CM65

DESCRIPTION	DATA
Specify the ring frequency of the D^{term}. **[Series 3200 R6.1 software required]**	• Y=40 (1) 00-63: Tenant No. assigned by CM30 Y=01/CM12 Y=04 (2) See the table below.

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀	
		Electra Terminal/ D^{term} Series III	Elite Terminal/D^{term} Series E/ D^{term} Series i
0	Door Phone Ringer Tone	1024 + 1285 [Hz]/ 16 [Hz] Modulating Signal	1100 + 1400 [Hz]/ 16 [Hz] Modulating Signal
1	Ringer Tone 1	480 + 606 [Hz]/ 8 [Hz] Modulating Signal	520 + 660 [Hz]/ 8 [Hz] Modulating Signal
2	Ringer Tone 2	600 + 700 [Hz]/ 16 [Hz] Modulating Signal	660 + 760 [Hz]/ 16 [Hz] Modulating Signal
3	Ringer Tone 3	1024 [Hz] Envelop	1100 [Hz] Envelop
4	Ringer Tone 4	500 [Hz]	540 [Hz]
5	Ringer Tone 5	1024 [Hz]	1100 [Hz]
6	Not used	1285 + 1024 [Hz]	1400 + 1100 [Hz]
7	Not used	480 + 606 [Hz]/ 16 [Hz] Modulating Signal	520 + 660 [Hz]/ 16 [Hz] Modulating Signal

NOTE: *This data is effective only for D^{term} Series i.*
When using Electra Terminal/D^{term} Series III/Elite Terminal/D^{term} Series E, using D^{term} Series i with Series 3100 software or before, or when accommodating D^{term} Series i in TDM based Remote PIM, the second data is fixed to 1.

F

F

CM35

DESCRIPTION	DATA
Specify the value of the Tie Line Pad of ODT card.	• Y=19 (1) 00-63: Trunk Route No. (2) 0-3 : Programmable PAD (See CM42) 4-7◀: Fixed PAD (See the following Table)

CONNECTION PATTERNS (A-B)	PAD DATA OF B TRUNK			
	DATA=4 (T/R)	DATA=5 (T/R)	DATA=6 (T/R)	DATA=7 (T/R)
Station-ODT (4W E&M)			–3/–3	–3/–3
Tone-ODT (4W E&M)			0/0	0/0
COT/DID/ODT (2W E&M)/IPT-ODT (4W E&M)			–2/–2	0/0
ODT (4W E&M)-ODT (4W E&M)			0/0	0/0
DTI/BRT/PRT/CCT/Virtual IPT-ODT (4W E&M)			0/0	0/0
Station-ODT (2W E&M)			–3/–3	0/0
Tone-ODT (2W E&M)			0/0	0/0
COT/DID/ODT (2W E&M)/IPT-ODT (2W E&M)			0/0	0/0
ODT (4W E&M)-ODT (2W E&M)			0/0	0/0
DTI/BRT/PRT/CCT/Virtual IPT-ODT (2W E&M)			0/0	0/0

T/R: Transmit/Receive
+ : Gain
– : Loss

G

G

CM42

DESCRIPTION	DATA
When using the programmable PAD (CM35 Y=19, 2nd data=0-3), assign the PAD data.	(1) 50-65 (See the following Table) (2) 00-15 (See the following Table)

PATTERN / 1ST DATA (1)	PAD DATA PATTERNS				CONNECTING PATTERNS (A TRUNK-B TRUNK)
	CM35 Y=19 2ND DATA=0	CM35 Y=19 2ND DATA=1	CM35 Y=19 2ND DATA=2	CM35 Y=19 2ND DATA=3	
50 ≀ 65	50	54	58	62	STA-ODT
	51	55	59	63	TONE-ODT
	52	56	60	64	COT/DID/ODT (2W E&M)/IPT-ODT
	53	57	61	65	ODT (4W E&M)/DTI/BRT/PRT/CCT/Virtual IPT-ODT

PATTERNS / 2ND DATA (2)		PAD DATA OF B TRUNK (T/R) [dB]		REMARKS
		4W E&M	2W E&M	
00 ≀ 15	00	0/0	0/0	
	01	0/0	0/0	
	02	0/0	0/0	
	03	−2/−2	−3/−3	
	04	−3/−3	0/0	
	05	−12/−11	−6/−6	
	06	−16/−11	0/0	
	07	−6/−6	0/0	
	08 ≀ 15	Not Used		

T/R: Transmit/Receive
\+ : Gain
− : Loss

H

	DESCRIPTION	DATA
H		
CM63	Specify the restriction of incoming call termination to different tenants.	• Y=2 (1) XX ZZ XX: Tenant No. of called station ZZ : Tenant No. of Trunk Route (2) 0 : Restricted 1◀: Allowed
CM45	Provide DTMF Receivers for Tie Line incoming calls, if required.	• Y=1 (1) XX Z: DTMF Receiver No. XX: 00 (Built-in PBR on MP card) 01-15 (8RST Card No. assigned by CM10/CM14, E201-E215) Z : 0-3: Circuit No. (2) 0 : Only for Tie Line 1◀: For both station and Tie Line
END		

TIE LINE TANDEM SWITCHING

PROGRAMMING

START	DESCRIPTION	DATA
CM36	Specify the combination of Trunk Routes allowing the Tandem connection. The incoming trunk route must provide a release signal for the Tandem Connection. (See CM35 Y=05)	• Y=0 (1) XX ZZ XX: 00-63: Incoming Trunk Route ZZ : 00-63: Outgoing Trunk Route (2) 0 : Allow 1◀: Restricted
END		

HARDWARE REQUIRED

ODT card

TIMED FORCED RELEASE

[Series 3500 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM35	Provide the outgoing trunk route with forced release in designated time.	• Y=247 (1) 00-63: Trunk Route No. (2) 0 : To provide 1◀: Not provided
	Provide the incoming trunk route with forced release in designated time.	• Y=248 (1) 00-63: Trunk Route No. (2) 0 : To provide 1◀: Not provided
CM41	Specify the warning SST sending timer for forced release, Timer A, B and C respectively. **NOTE:** *Set the time from the start of communications to the warning SST is sent. Forced release is executed at 16 seconds later from the warning SST is sent.*	• Y=0 (1) 114: Timer A 115: Timer B 116: Timer C (2) 01-99: 64-6336 seconds (64 second increments) NONE◀: No data
CM12	Specify the warning SST sending timer for forced release to the required stations. **NOTE:** *This data is effective when the forced release is provided to the destination trunk route (CM35 Y=247 and CM35 Y=248 is set to 0).*	• Y=61 (1) X-XXXXXXXX: Station No. (2) 0 : Depends on Timer A 1 : Depends on Timer B 2 : Depends on Timer C 3◀: Forced Release is not provided
A		

	DESCRIPTION	DATA
A		
CM35	Specify the warning SST sending timer for forced release to the incoming trunk route of tandem connection. **NOTE:** *This data is effective when the forced release is provided to the outgoing trunk route of tandem connection (CM35 Y=247 is set to 0).*	• Y=249 (1) 00-63: Trunk Route No. (2) 0 : Depends on Timer A 1 : Depends on Timer B 2 : Depends on Timer C 3◀: Forced Release is not provided
CM08	Specify whether the operation of hooking/call holding after a station receives the warning SST is restricted, or not.	(1) 664 (2) 0 : Allow 1◀: Restricted
	Specify whether the shift from the communication between station and Trunk to Conference (Three/Four Party) while the timer for forced release is in progress is restricted, or not.	(1) 665 (2) 0 : Allow 1◀: Restricted
END		

TIMED QUEUE

PROGRAMMING

START	DESCRIPTION	DATA
CM41	Specify the timer data for this feature. If no data is set, the following data is applied: • Number of Call Attempts: 3 times • Interval Time of Call Attempt: 120-124 seconds • Duration of Calling: 28-32 seconds	• Y=0 (1) 35: Number of Times of Call Attempt (2) 01-07: Once-7 times If no data is set, the default setting is 3 times. (1) 36: Interval time of Call Attempt (2) 11-31: 48-124 seconds (4 second increments) If no data is set, the default setting is 120-124 seconds. (1) 37: Duration of Calling (2) 05-31: 20-124 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
CM90	Assign the Call Back feature to the required key on the D^{term}s, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0004
END		

HARDWARE REQUIRED

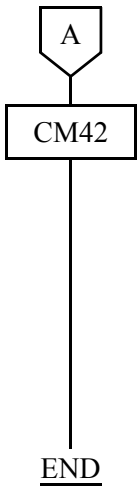
D^{term} and DLC card

TIMED REMINDER

PROGRAMMING

To provide the internal Music Source on the MP card:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Timed Reminder to required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Timed Reminder in Service Restriction Class A assigned by CM12 Y=02.	• Y=13 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Timed Reminder set and cancel.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (5*, 5#) (2) A024: Timed Reminder Set A025: Timed Reminder Cancel
CM48	Designate the type of tone source to be connected when answering a Timed Reminder call.	• Y=1 (1) 00: Tone Source of Timed Reminder (2) 1400: Hold Tone Source on MP card
CM90	Assign the Timed Reminder feature access key to a D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0024
CM08	Specify the timing for Timed Reminder Start.	(1) 228: Timed Reminder Start timing (2) 0 : At preset time 1◀: Before 5 minutes of preset time
CM41	Specify the ringing duration of a Timed Reminder call.	• Y=0 (1) 23 (2) 02-14: 8-56 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
A		



DESCRIPTION	DATA
Specify the number of Timed Reminder attempts before abandonment.	(1) 03 (2) 01-05 : 1 call-5 calls NONE◀: 5 calls
Specify the maximum number of Timed Reminder calls that can be set at the same time. **NOTE:** *This command is effective up to Series 3400 software.*	(1) 04 (2) 01-32 : 1 station-32 stations NONE◀: 10 stations

To provide an External Announcement Machine via COT card:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Timed Reminder to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Timed Reminder in Service Restriction Class A assigned by CM12 Y=02.	• Y=13 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Timed Reminder set and cancel.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (5*, 5#) (2) A024: Timed Reminder Set A025: Timed Reminder Cancel
CM10	Assign the COT card and DK card to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) 000-763: LEN (2) DB00-DB09: Interface Card No. for External Announcement Machine E800-E831 : DK Card No. For PIM0/1 : E800-E807 For PIM2/3 : E808-E815 For PIM4/5 : E816-E823 For PIM6/7 : E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface on MP card by setting CM44.*
CM14	Assign the COT card and DK card to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) DB00-DB09: Interface Card No. for External Announcement Machine E800-E831 : DK Card No. For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface on MP card by setting CM44.*
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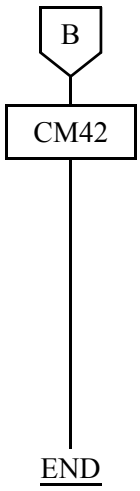
	DESCRIPTION	DATA
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
CM44	Assign the External Announcement Machine start function to the DK card.	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. 313: MP built-in External Equipment Interface (2) 0100: External Announcement Machine for Timed Reminder Calling
CM90	Assign the Timed Reminder feature access key to the D^{term}s, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0024
CM08	Specify the timing for Timed Reminder start.	(1) 228: Timed Reminder start timing (2) 0 : At preset time 1◀: Before 5 minutes of preset time
CM41	Specify the ringing duration of a Timed Reminder call.	• Y=0 (1) 23 (2) 02-14: 8-56 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
	Specify the duration of a Timed Reminder call.	• Y=0 (1) 52 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 60-64 seconds.

B



DESCRIPTION	DATA
Specify the number of Timed Reminder call attempts before abandonment.	(1) 03 (2) 01-05 : 1 call-5 calls NONE◀: 5 calls
Specify the maximum number of Timed Reminder calls that can be set at the same time. **NOTE:** *This command is effective up to Series 3400 software.*	(1) 04 (2) 01-32 : 1 station-32 stations NONE◀: 10 stations

To provide the internal announcement source by Digital Announcement Trunk (DAT card):

START	DESCRIPTION	DATA
CM10	Assign a Digital Announcement Trunk card number to the required LEN. To provide the restriction announcement for Timed Reminder call setting, assign the following DAT respectively. • DAT for Timed Reminder message • DAT for restriction announcement **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk card number to the required LEN. To provide the restriction announcement for Timed Reminder call setting, assign the following DAT respectively. • DAT for Timed Reminder message • DAT for restriction announcement **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM12	Assign Service Restriction Class A for Timed Reminder set and cancel.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Timed Reminder in Service Restriction Class A assigned by CM12 Y=02.	• Y=13 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
A		

A

	DESCRIPTION	DATA
CM20	Assign the access code for Timed Reminder set and cancel.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (5*, 5#) (2) A024: Timed Reminder Set A025: Timed Reminder Cancel
CM48	Designate the type of tone source to be connected when answering a Timed Reminder call.	• Y=1 (1) 00: Tone source of Timed Reminder (2) 0500: Digital Announcement Trunk
CM49	Assign the function of the Digital Announcement Trunk card.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk No. (EB002-EB127) assigned by CM10/CM14 (2) 0C XX: Answering Message on Timed Reminder XX : 00-63: Message No. • Y=08 (1) 00-63: Tenant No. (2) 00-63: Message No. assigned by CM49 Y=00
CM90	Assign the Timed Reminder feature access key to a D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0024
CM08	Specify the timing for Timed Reminder start.	(1) 228: Timed Reminder start timing (2) 0 : At preset time 1◀: Before 5 minutes of preset time
CM41	Specify the duration of a Timed Reminder call.	• Y=0 (1) 23: Timed Reminder call duration (2) 02-14: 8-56 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
	Specify the duration of massage replay for Timed Reminder.	• Y=0 (1) 52 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 60-64 seconds.

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	DESCRIPTION	DATA
CM42	Specify the number of Timed Reminder call attempts before abandonment.	(1) 03 (2) 01-05 : 1 call-5 calls NONE◀: 5 calls
	Specify the maximum number of Timed Reminder calls that can be set at the same time. **NOTE:** *This command is effective up to Series 3400 software.*	(1) 04 (2) 01-32 : 1 station-32 stations NONE◀: 10 stations
CM08	Specify the action when the number of Timed Reminder calls exceeds the maximum number assigned by CM42>04.	(1) 806 (2) 0 : Restrict Timed Reminder call setting 1◀: Set to 5 or 10 minutes prior to preset time
CM49	Assign the restriction announcement for Timed Reminder to the DAT card or MP built-in DAT	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk No. (EB002-EB127) assigned by CM10/CM14 (2) 1900: Restriction Announcement for Timed Reminder
CM20	To record, replay, or delete a message, assign the appropriate Digital Announcement Trunk access code.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete

END

HARDWARE REQUIRED

To provide the Internal Music Source:
MP card

To provide the External Announcement Machine:
COT card
DK card or MP card (built-in DK)
External Announcement Machine provided locally

To provide the internal digital announcement source:
DAT card or MP card (built-in DAT)

TRUNK-DIRECT APPEARANCES

PROGRAMMING

To provide Trunk-Direct Appearances on Analog trunk:

START	DESCRIPTION	DATA
CM30	Assign the terminating system for required C.O. trunks to Trunk-Direct Appearances.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. (2) 02: Trunk-Direct Appearances
	Provide the Trunk-Direct Appearances feature to the required C.O. trunk assigned by CM30 Y=02.	• Y=18 (1) 000-255: Trunk No. (2) 0: To provide
CM90	Assign the Trunk-Direct Appearances key to each D^{term}, as required.	• Y=00 (1) My Line No. + [,] + Key No. (2) D000-D255: Trunk No.
	Assign a Hold key for holding the Trunk-Direct Appearances call, to each D^{term}, as required. By this assignment, the held Trunk-Direct Appearances call can be transferred by voice call, and can be answered by the Trunk-Direct Appearances key on the destination station.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0058: Hold Key
CM08	Specify whether a Dial Tone is sent when the call is held by the Hold key for Trunk-Direct Appearances (CM90 Y=00>F0058).	(1) 365 (2) 0 : To send 1◀: Not sent
	Specify whether Hold Transfer for a trunk line placed in Consultation Hold is available or not.	(1) 161 (2) 0 : Available (Hold Transfer) 1◀: Not available (Consultation Hold)
END		

To provide enhanced Trunk-Direct Appearances on Analog trunk:

START	DESCRIPTION	DATA
CM90	Program enhanced Hold key to each D^{term}.	• Y=00 (1) My Line No. + , + Key No. (2) F0058: Hold Key
	Program Trunk Answer key.	(1) My Line No. + , + Key No. (2) F0059: Trunk Answer Key
CM20	Assign Trunk Answer to be used for analog telephones.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A059: Trunk Answer
	Assign Trunk Hold to be used for analog telephones.	(1) X-XXXX: Access Code (2) A058: Trunk Hold
CM30	Assign ID code for each C.O. trunk.	• Y=19 (1) 000-255: Trunk No. (2) ABCD: Trunk ID code
CM08	Assign Answer preference.	(1) 114 (2) 0 : Answer by 2-digit Trunk ID code [Answer Code+Trunk ID Code (CD)] 1◀: Answer by 4-digit Trunk ID code [Answer Code+Trunk ID Code (AB-CD)]
CM51	Assign Hold Recall to alternate destination.	• Y=21 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
END		

NOTE: *If the incoming call is routed via the Internal Automated Attendant feature (DAT card), the tenant number programmed in CM49 Y=01 must match the tenant number programmed in CM20 Y=01 for the incoming trunk.*

The table below shows the availability of the HOLD key (CM90 Y=00>F0058) on each condition.

Trunk-Direct Appearances (CM30 Y=18)	Trunk ID Code Assignment (CM30 Y=19)	Kind of Trunks	Trunk ID Code Display	Availability of HOLD Key (CM90 Y=00>F0058)
0 (Provide)	–	–	–	Available
1 (Not provided)	Not assigned	–	–	Not available
	Assign	CCIS trunk	–	Not available
		ISDN trunk	CM35 Y=146 is set to 0. (Trunk ID Code is displayed.)	Available
			CM35Y=146 is set to 1. (Calling/called sub-address is displayed)	Not available
		Other trunks	CM35 Y=75 is set to 0. (DID incoming LDN is displayed.)	Not available
			CM35 Y=75 is set to 1. (Trunk ID Code is displayed.)	Available

To provide Trunk-Direct Appearances on ISDN BRI trunk:
[Series 3800 software required]

NOTE: *ISDN Trunk Connection is required before setting following programming. Refer to "ISDN System Manual".*

START	DESCRIPTION	DATA
CM30	Assign the terminating system for required C.O. trunks to Trunk-Direct Appearances.	• Y=02 Day Mode • Y=03 Night Mode • Y=40 Mode A • Y=41 Mode B (1) 000-255: Trunk No. (2) 02 : Trunk-Direct Appearances 03 : Trunk-Direct Appearances+TAS 06 : Direct-In Termination+Trunk-Direct Appearances 11 : Attendant Console+Trunk-Direct Appearance 12 : Attendant Console+Trunk-Direct Appearance+TAS 31◀: DID, Tie Line and the call which is not handled by the PBX
	Provide the Trunk-Direct Appearances feature to the required C.O. trunk assigned by CM30 Y=02.	• Y=18 (1) 000-255: Trunk No. (2) 0: To provide
CM76	Assign the Number Conversion Block number for Development Table 0.	• Y=00 (1) X-XXXX: DID No. (2) 000-999 : Number Conversion Block No. NONE◀: No data
	Assign the Number Conversion Block number for Development Table 1.	• Y=90 (1) X-XXXXXXXX: DID No. (2) 000-999 : Number Conversion Block No. NONE◀: No data
A		

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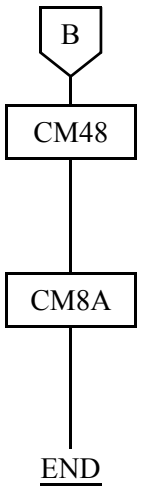
	DESCRIPTION	DATA
CM76	Assign the data for interpreting the digits received.	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) X-XXXXXXXX: Station No. to be terminated DXX: Change Terminating System to: D02: Trunk-Direct Appearances D03: Trunk-Direct Appearances+ TAS D06: Direct-In Termination+ Trunk-Direct Appearances
CM90	Assign a Trunk-Direct Appearances key to each D^{term}, as required.	• Y=00 (1) My Line No. + , + Key No. (2) D000-D255: Trunk No.
CM35	Assign a trunk access code sent to SMDR for outgoing call. **NOTE:** *This command is effective when CM35 Y=189 is not assigned.*	• Y=44 (1) 00-63: Trunk Route No. (2) 00-99: Trunk Access Code
	Assign a trunk access code for Trunk-Direct Appearances Multiline Operation.	• Y=189 (1) 00-63: Trunk Route No. (2) X-XX: Trunk Access Code X=0-9, A (*), B (#)
CM41	Specify the Timing Start when making ISDN call from a Single Line Telephone (PB/DP), D^{term} or Attendant Console.	• Y=0 (1) 50 (2) 03-14: 3-14 seconds (1 second increment) If no data is set, the default setting is 10 seconds.
	Specify the ORT timer when sending LCR. **NOTE:** *Second data 02 is available for Series 3600 or later.*	• Y=0 (1) 111 (2) 02-15: 2-15 seconds (1 second increment) If no data is set, the default setting is 7 seconds.

B



DESCRIPTION	DATA
Allow second Dial Tone for ISDN trunk route.	• Y=2 (1) 04: 2nd DT on ISDN trunks (2) 0: For ISDN trunk route, 2nd Dial Tone is provided.
To provide outgoing calls by pressing "#" key.	• Y=5000-5255 LCR Pattern No. 000-255 (1) 180 (2) 0 : To provide 1◀: Not provided

HARDWARE REQUIRED

D^{term}, DLC card, and COT card

TRUNK QUEUING-OUTGOING

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Trunk Queuing-Outgoing to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Trunk Queuing-Outgoing in Service Restriction Class A assigned by CM12 Y=02.	• Y=02 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for setting and resetting this service.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (*1, #1) (2) • If a different access code from Call Back is used. A000: Set A001: Reset • If the same access code as Call Back is used. A004: Set A005: Reset
CM90	Assign the Trunk Queuing-OG (Call Back) key to the required D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0000: Trunk Queuing-OG F0004: Trunk Queuing-OG/Call Back
CM35	Specify the Trunk Queuing-Outgoing capability for each trunk route.	• Y=28 (1) 00-63: Trunk Route No. (2) 0 : Restricted 1◀: Allow
END		

NOTE: *To provide Trunk Queuing-Outgoing in conjunction with Least Cost Routing-3/6 Digit, you must set Route Pattern No. 000-126 (CM8A Y=0000-0126). Route Pattern No. 127-255 cannot be used for Trunk Queuing-Outgoing with Least Cost Routing-3/6 Digit.*

TRUNK-TO-TRUNK CONNECTION

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	• Y=07 (1) X-XXXXXXXX: My Line No. (2) 00-15◀: Service Restriction Class C
CM15	Provide the switch hook flash capability during C.O. line connection, to the required stations.	• Y=90, 91 (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 1◀: Allow
CM36	Specify the combination of trunk routes allowing the Trunk-to-Trunk Connection.	• Y=0 (1) XX ZZ XX: 00-63: Incoming trunk route ZZ : 00-63: Outgoing trunk route (2) 0 : Allow 1◀: Restricted
CM08	Provide the system with Ring Transfer for Call Transfer-All Calls to a trunk when a station holds another station or trunk.	(1) 253 (2) 0: Available
	Provide the system with forced release when a tandem call duration passes a predetermined time.	(1) 029 (2) 0 : To disconnect 1◀: To continue
CM35	Allow or restrict forced release of tandem connection for the incoming trunk route. This data is available when CM08>029 is set to 0.	• Y=119 (1) 00-63: Trunk Route No. (2) 0 : Allow 1◀: Restricted
CM41	Specify the forced release timing for tandem call.	• Y=0 (1) 54 (2) 01-06: 64-224 minutes (32 minute increments) If no data is set, the default setting is 96-128 minutes
A		

	DESCRIPTION	DATA
A		
CM08	Provide the system with Trunk-to-Trunk Connection when no release signal arrives from the incoming trunk route and answer signal arrives from the outgoing trunk route.	(1) 324 (2) 0 : Available 1◀: Not available
	Provide the system with Trunk-to-Trunk Connection transferred by a station or an attendant, when no answer signal arrives and release signal arrives from the outgoing trunk route.	(1) 028 (2) 0 : Available 1◀: Not available
CM41	Specify the forced release timing for tandem connection when the called party does not answer. This data is available when no release signal arrives from incoming trunk route.	• Y=0 (1) 55 (2) 01-13: 12-60 seconds (4 second increments) If no data is set, the default setting is 20-24 seconds.
END		

To provide the AMP trunk for Trunk-to-Trunk Connection:

START	DESCRIPTION	DATA
CM10	Assign the card number of the AMP trunk (AMP card). **NOTE:** *The AMP card number must be assigned to both of the first LEN (Level 0) and the third LEN (Level 2) of each slot.*	(1) 000-763: LEN (2) Card No. of AMP trunk For PIM0/1: C100-C115 For PIM2/3: C116-C131 For PIM4/5: C132-C147 For PIM6/7: C148-C163
CM14	Assign the card number of the AMP trunk (AMP card). **[Series 3200 R6.2 software required]** **NOTE:** *The AMP card number must be assigned to both of the first LEN (Level 0) and the third LEN (Level 2) of each slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) Card No. of AMP trunk For FP No. 00: C100-C115 For FP No. 01: C116-C131 For FP No. 02: C132-C147 For FP No. 03: C148-C163
CM38	Assign the AMP patterns to each combination of the trunk routes.	• Y=00 (1) XX ZZ XX: 00-63: Incoming trunk route ZZ : 00-63: Outgoing trunk route (2) 00-14: AMP pattern No. 00-14 15◀ : Not use the AMP trunk
	Assign the gain value of each AMP pattern.	• Y=01 (1) 00-14: AMP pattern No. 00-14 (2) X Z X: AGC (Automatic Gain Control) 0 : 0 dBr 1 : +4 dBr 2 : –4 dBr 3◀: Through (assigned by Fixed Gain) Z: Fixed Gain 0 : 12 dB 1 : 8 dB 2 : 4 dB 3◀: 0 dB
A		

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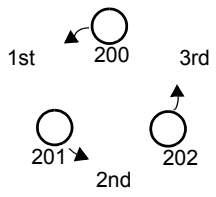
CM38

DESCRIPTION	DATA
Assign the Echo Canceller function to each AMP pattern.	• Y=02 (1) 00-14: AMP pattern No. 00-14 (2) 0 : Through 1◀: Normal
Assign the Gain Controller of Echo Canceller to each AMP pattern.	• Y=03 (1) 00-14: AMP pattern No. 00-14 (2) 0 : ON 1◀: OFF
Select the mode of Tone Disabler on each AMP pattern.	• Y=04 (1) 00-14: AMP pattern No. 00-14 (2) 0 : G164 1◀: G165
Specify the detect timing of Tone Disabler on each AMP pattern.	• Y=05 (1) 00-14: AMP pattern No. 00-14 (2) 0 : 0 second 1◀: 2 seconds
Specify the channels connected to each AMP pattern.	• Y=06 (1) 00-14: AMP pattern No. 00-14 (2) 0 : Incoming Route: Tie Line Outgoing Route: C.O. Line 1◀: Incoming Route: C.O. Line Outgoing Route: Tie Line
Specify the timing of AMP trunk connection on each AMP pattern.	• Y=07 (1) 00-14: AMP pattern No. 00-14 (2) 0 : When dialing is finished 1◀: When answering

END

UNIFORM CALL DISTRIBUTION (UCD)

PROGRAMMING

START	DESCRIPTION	DATA
CM17	For each UCD group, assign station numbers, one by one, in the order of hunting. **NOTE:** *Up to 60 stations can be assigned into a single UCD group.* **Example:** For setting station numbers 200, 201, 202 into one UCD group. 1st Operation (1) 200 (2) 201 2nd Operation (1) 201 (2) 202 3rd Operation (1) 202 (2) 200  	• Y=0 (1) X-XXXXXXXX: Station No. (2) X-XXXXXXXX: Another station No. to be linked
	Assign the Pilot station and Member station.	• Y=1 (1) X-XXXXXXXX: UCD Station No. (2) 0◀: Member station 1 : Pilot station
	Assign the UCD group number.	• Y=2 (1) X-XXXXXXXX: UCD Station No. (2) 00-15: UCD Group 00-15
	Specify the UCD service for each type of call.	• Y=4 Internal Call (1) X-XXXXXXXX: Pilot Station No. of UCD group (2) 0 : Not provided 1◀: To provide • Y=5 C.O. (DDD/FX/WATS) Incoming Call (1) X-XXXXXXXX: Pilot Station No. of UCD group (2) 0 : Not provided 1◀: To provide
A		

	DESCRIPTION	DATA
A		
CM17		• Y=6 Tie Line incoming call (1) X-XXXXXXXX: Pilot Station No. of UCD group (2) 0 : Not provided 1◀: To provide • Y=7 DID/Automated Attendant Call (1) X-XXXXXXXX: Pilot Station No. of UCD group (2) 0 : Not provided 1◀: To provide • Y=B Designation of number of queuing in each UCD group (1) X-XXXXXXXX: Pilot Station No. of UCD group (2) 0 : To provide (See CM42>16) 1◀: Not provided (No limit)
CM42	Specify the maximum number of queuing in each UCD group.	(1) 16 (2) 01-99 : 1 call-99 calls NONE◀: No limit
CM41	Specify the call waiting time before answer or abandonment for PEG Count analysis.	• Y=0 (1) 16 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
CM20	Assign the access code for UCD station Busy Out Set and Reset.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A044: Busy Out Set A045: Busy Out Reset
CM90	Assign the UCD Busy Out key on the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0044: UCD Busy Out
	Assign the Release key on the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1020: Release
B		

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CM08

DESCRIPTION	DATA
Specify the processing for an incoming call when all UCD stations are busy.	(1) 212 (2) 0 : Busy Tone Connection 1◀: Queuing
Specify the processing for a held call after setting the UCD Busy Out.	(1) 214: For the held call from Tie Line (2) 0 : Reconnected by Switch Hook Flash 1◀: Disconnected
	(1) 215: For the held call from C.O. Line (2) 0 : Reconnected by Switch Hook Flash 1◀: Disconnected
Specify that the transferred C.O. call from a station or an attendant is placed into queuing mode when all UCD stations are busy. **NOTE:** *This data is only effective when CM08>212 is set to 1.*	(1) 227 (2) 0 : The call is placed into queuing mode **NOTE** 1◀: Recall to the transferring station when the call is transferred from station, or Attendant Camp-On is set when the call is transferred from Attendant
Enable the UCD Busy Out set and reset from the secondary extension.	(1) 442 (2) 0 : Available 1◀: Not available

END

BUSY IN/BUSY OUT-UCD

PROGRAMMING

To provide UCD Busy Out indication on DSS Console:

START	DESCRIPTION	DATA
CM08	Provide the system with UCD Busy Out indication on DSS Console.	(1) 265 (2) 0: To provide
CM97	Assign the function key on each DSS Console.	(1) DSS Console No. (00-31) + [,] + Function Key No. (57-59) (2) F1055: UCD Busy Out
END		

CALL WAITING INDICATION-UCD

To provide the LEDs on the D^{term} for UCD Call Waiting Indication:

PROGRAMMING

START

	DESCRIPTION	DATA
CM08	Assign the incoming call to queuing mode when all UCD stations are busy.	(1) 212 (2) 1◀: Queuing
CM42	Specify the maximum number of queuing in each UCD group for controlling call waiting lamp of a D^{term}.	(1) 15 (2) 01-99 : 1 call-99 calls NONE◀: 1 call

NOTE: *Depending on the number of queuing station/trunk, lamp indication pattern on a D^{term} is different as shown below:*

N=Number of queuing station/trunk

CONDITIONS	LAMP INDICATION
2nd Data=01	Steady on red irrespective of number of queuing station/trunk
1≤N<2nd Data (2nd Data≠01)	Steady on red
2nd Data≤N (2nd Data≠01)	Flashing red

CM90	Assign the Call Waiting Indication LED to the required D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1280-F1295: UCD Group 0-15

END

To provide an external indicator for UCD Call Waiting:

START	DESCRIPTION	DATA
CM08	Assign the incoming call to queuing mode when all UCD stations are busy.	(1) 212 (2) 1◀: Queuing
CM42	Specify the maximum number of queuing in each UCD group for controlling external indicator.	(1) 15 (2) 01-99 : 1 call-99 calls NONE◀: 1 call

NOTE: *Depending on the number of queuing station/trunk, lamp indication pattern on the external indicator is different as shown below:*

N=Number of queuing station/trunk

CONDITIONS	LAMP INDICATION
2nd Data=01	Lamp on irrespective of number of queuing station/trunk (For the indication pattern, see CM59 in next page.)
N<2nd Data (2nd Data≠01)	Lamp off
2nd Data≤N (2nd Data≠01)	Lamp on (For the indication pattern, see CM59 in next page.)

CM10	Assign the DK card to the required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) 000-763: LEN (2) E800-E831: DK Card No. For PIM0/1: E800-E807 For PIM2/3: E808-E815 For PIM4/5: E816-E823 For PIM6/7: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface on MP card by setting CM44.*
CM14	Assign the DK card to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The DK card number must be assigned to the first LEN (Level 0) and the third LEN (Level 2) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) E800-E831: DK Card No. For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface on MP card by setting CM44.*

A

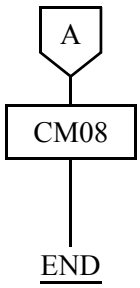
	DESCRIPTION	DATA
A		
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
CM44	Set the function of UCD Call Waiting Indication to the DK.	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. 313: MP Built-in External Equipment Interface (2) 14XX XX: 00-15: UCD Group No. assigned by CM17
CM59	Specify the UCD Call Waiting Indicator indication pattern.	(1) 00 (2) 01 : 30 IPM (1 second ON/OFF) 02 : 60 IPM (0.5 seconds ON/OFF) 03 : 120 IPM (0.25 seconds ON/ OFF) 07 : Steady on NONE◀: 120 IPM (0.25 seconds ON/ OFF)
END		

DELAY ANNOUNCEMENT-UCD

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Digital Announcement Trunk Access (Record/Replay/Delete) to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Assign Digital Announcement Trunk Access in Service Restriction Class A assigned by CM12 Y=02.	• Y=33 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM10	Assign a Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card No. must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card No. must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM17	Specify the pattern of message sent to each UCD group.	• Y=A (1) X-XXXXXXXX: Pilot Station No. of UCD group (2) 0 : To send periodically 1◀: To send only once
A		

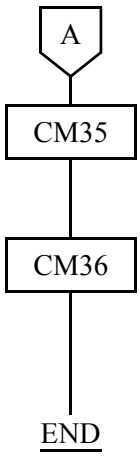
	DESCRIPTION	DATA
A		
CM41	If the data for CM17 Y=A is "0", set the interval time for UCD Delay Announcement.	• Y=0 (1) 47 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
	Specify the UCD Delay Announcement connection timer.	• Y=0 (1) 67 (2) 01-32: 4-128 seconds (4 second increments) If no data is set, the default setting is 8-12 seconds.
	Specify the maximum UCD call waiting time before answer or abandonment for UCD PEG Count, and waiting time before UCD Delay Announcement.	• Y=0 (1) 16 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
CM49	Assign the UCD Delay Announcement function to the required Digital Announcement Trunk.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. (EB002-EB127) assigned by CM10/CM14 (2) 0B0XX: UCD Delay Announcement 11XX : UCD Second Delay Announcement XX : 00-15: UCD group No.
CM20	To record, replay and delete a message, assign the Digital Announcement Trunk access code, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access code (2) A100: Record A101: Replay A102: Delete
CM51	When transferring the call to a station or Attendant after the 1st interval time of UCD Delay Announcement, assign the destination.	• Y=17 (1) 00-63: Tenant No. (2) Destination: X-XXXXXXXX: Station No. E000 : Attendant Console
A		



DESCRIPTION	DATA
Specify a diversion display on a D^{term} or Attendant Console when transferring a UCD call.	(1) 357 (2) 0 : Available 1◀: Not available

To set an outside party as the UCD overflow destination after the delay announcement:

START	DESCRIPTION	DATA
CM17	Specify the pattern of message sent to each UCD group to send periodically.	• Y=A (1) X-XXXXXXXX: Pilot Station No. of UCD group (2) 0: To send periodically
CM51	When transferring the call to an outside party after the 1st interval time of UCD Delay Announcement, assign the destination.	• Y=17 (1) 00-63: Tenant No. (2) Destination: X-XXXXXXXX: Virtual Line Station No. assigned by CM11
CM11	Assign the Virtual Line station number to the required Virtual LEN.	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Line Station No.
CM12	Assign Service Restriction Class A to the Virtual Line station.	• Y=02 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) XXZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-All Calls-Outside in Service Restriction Class A assigned by CM12 Y=02.	• Y=26 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CME6	Set Call Forwarding-All Calls-Outside to the Virtual Line station number assigned by CM11.	• Y=00 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) Destination No. : X-XXXX + , + YY...Y X-XXXX : Outgoing Trunk/LCR Group Access Code (1-4 digits) , : Separate Mark YY...Y : Called No. (Maximum 26 digits)
A		



DESCRIPTION	DATA
To apply Call Forwarding-All Calls-Outside, set the trunk route combinations for Tandem Connection.	• Y=05 (1) 00-63: Trunk Route No. **NOTE** (2) 1◀: Release signal arrives **NOTE**
NOTE: *For Resident System Programming, refer to the Command Manual.*	• Y=0 (1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=05 (2) 0: Allow

HUNT PAST NO ANSWER-UCD

PROGRAMMING

Refer to CALL FORWARDING-NO ANSWER. ☞ *Page 142*

IMMEDIATE OVERFLOW-UCD

PROGRAMMING

Refer to CALL FORWARDING-BUSY LINE. ☞ *Page 140*

PRIORITY QUEUING-UCD

PROGRAMMING

START	DESCRIPTION	DATA
CM35	Assign Priority Queuing per trunk route.	• Y=60 (1) 00-63: Trunk Route No. (2) 0 : To provide 1◀: Not provided
CM76	Assign Priority Queuing per DID incoming LDN, if Digit Conversion is provided (CM35 Y=18 is set to 0).	• Y=11 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : Not provided 1◀: To provide
END		

QUEUE SIZE CONTROL-UCD

PROGRAMMING

Refer to UNIFORM CALL DISTRIBUTION (UCD). ☞ *Page 720*

SILENT MONITOR-UCD

PROGRAMMING

To monitor a UCD call, with or without a warning tone:

NOTE: *Monitoring telephone conversations may be illegal under certain circumstances and laws. Consult a legal advisor before implementing the monitoring of telephone conversations. Some federal and state laws require a party monitoring a telephone conversation to use beep-tones, to notify all parties to the telephone conversation, and/or obtain consent from all parties to the telephone conversation. Some of these laws provide strict penalties for illegal monitoring of telephone conversations.*

START	DESCRIPTION	DATA
CM08	Specify the warning tone sent to connected stations when monitoring a station-to-station or station-to-trunk call.	(1) 259 (2) 0 : No tone 1◀: One warning tone
	Specify whether the warning tone is sent to the outside party when monitoring a station-to-trunk call.	(1) 076 (2) 0 : To send 1◀: Not sent
CM12	Assign Service Restriction Class A for monitoring stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow monitoring stations in Service Restriction Class A assigned by CM12 Y=02.	• Y=103 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM12	Assign Service Restriction Class A for monitored stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow being monitored in Service Restriction Class A assigned by CM12 Y=02.	• Y=104 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
A		

	DESCRIPTION	DATA
A		
CM20	Assign the access code for monitor, if required.	• Y=0-3 Number Plan Group 0-3 (1) X-XXXX: Access Code (2) A033: Monitor
CM90	Assign a monitoring function key to the required D^{term}s.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0033: Monitoring
CM08	Specify the action of monitoring station after the hold/hooking key is pressed in the monitored station or the monitored station becomes idle. **[Series 3500 software required]**	(1) 560 (2) 0 : Keep monitoring 1◀: Stop monitoring
CM48	When setting the second data of CM08>560 to 0 (keep monitoring), set the music for Internal Hold Tone that is sent to monitoring station. **NOTE 1:** *When PN-CP24-D/PN-CP26-B/PN-CP27-B/PN-CP31-D is used as MP card, the following tone sources are not available: "It's a small world (2nd data 05)", "Let it be (2nd data 07)", and "If you love me (2nd data 09)". "Minuet" will be set instead of those tone sources.* **NOTE 2:** *This data setting is effective only for the legacy terminal. For D^{term}IP, this data setting is not effective. D^{term}IP uses the tone source in IP Adapter (Minuet).*	• Y=3 (1) 01 (2) 00 : Nocturne 01 : Minuet 02 : Fur Elise 03 : The Maiden's Prayer 04 : When the saints go marching in 05 : It's a small world 06 : Spring (by four seasons) 07 : Let it be 08 : Ich bin ein Musikante (German folk song) 09 : If you love me 10 : Amaryllis (French folk song) NONE◀: Minuet
	Define the type of call to be provided with Hold Tone on the MP card.	• Y=0 (1) 02: Internal Call (2) 1400: Hold Tone Source on MP card
END		

HARDWARE REQUIRED

To provide the delay announcement for UCD:
DAT card or MP card (built-in DAT)

To provide the LEDs on the D^{term}:
D^{term} and DLC card

To provide the external Call Waiting Indicator:
DK card or MP (built-in External Equipment Interface)
External Indicator provided by the customer

Requirement for External Indicator:
Control Method: Ground/Battery (Maximum 125 mA)
Type: Visual and/or Audible type with volume control

UNIFORM NUMBERING PLAN (UNP)-VOICE AND DATA

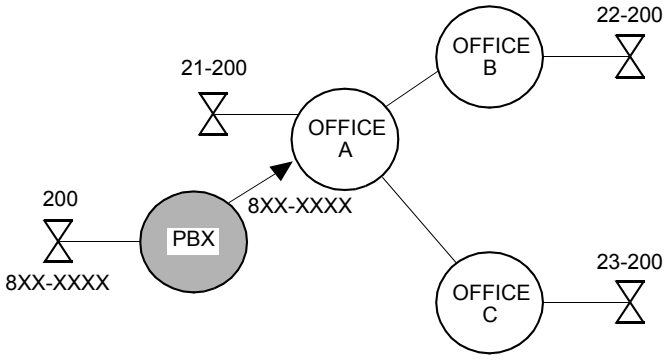
PROGRAMMING

For an open numbering system:

START	DESCRIPTION	DATA
CM20	Assign an access code for LCR Group 0-3.	• Y=0-3 Numbering Group 0-3 (1) X-XXXX: Access Code (2) A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	• Y=A000 (1) 0-3: LCR Group 0-3 (2) 4005-4007: Area Code Development Pattern No. 5-7
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	• Y=4005-4007 Area Code Development Pattern No. 5-7 (1) NXX/1NXX: Area Code (Maximum 8 digits) (2) 0000-0255: Route Pattern No. 000-255
	Assign an area code for Intra-office terminations, if required.	• Y=4005-4007 Area Code Development Pattern No. 5-7 (1) X-XXXXXXXX: Area Code (1-8 digits) (2) 8000 : Intra-office termination 8001-8008: 1-8 digits Intra-office station
	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.	• Y=0000-0255 Route Pattern No. 000-255 (1) 1-4: Order of LCR Selection 1: 1st 2: 2nd 3: 3rd 4: 4th (2) XXX ZZ XXX: 000-255: LCR Pattern No. ZZ : 00-63: Trunk Route No.
A		

	DESCRIPTION	DATA
A		
CM8A	Assign the digits to be deleted from the calls to distant offices. To delete all digits of an area code:	• Y=5000-5255 LCR Pattern No. 000-255 (1) 151: Deletion of all digits of area code (NXX, 1NXX) assigned by CM8A Y=4000-4007 (2) 0: To delete
	To delete the designated digit of an area code:	• Y=5000-5255 (1) 153: Designation of digit to be deleted (2) 00 : No digits deleted 01-10: First digit deleted-First 10 digits deleted CCC : No digits deleted
	Assign the digits to be added to the digits sent to the distant office.	• Y=5000-5255 (1) 100: Designation of Digit Addition Pattern No. (2) 9000-9255 : Digit Addition Pattern No. 000-255 CCC : No digits added • Y=9000-9255 Digit Addition Pattern No. 000-255 (1) 0: Entry of digit code to be added (2) X-X...X: Digits to be added (Maximum 32 digits) X=0-9, A (*), B (#), C (Fixed Pause), D (Programmable Pause)
CM35	Assign the digits to be added to the required trunk routes when adding digits to those received from a distant office.	• Y=17 (1) 00-63: Trunk Route No. (2) 00-09: Add “0”-Add “9” 10 : Add 2 digits per CM50 Y=00>0
	Assign the data for digit deletion to the required trunk routes for deleting the first one or two digits received from a distant office.	• Y=17 (1) 00-63: Trunk Route No. (2) 11: Delete first digit 12: Delete first 2 digits
CM50	If two digits are to be added (CM35 Y=17, 2nd data=10), assign the digits to be added.	• Y=00 (1) 0 (2) XX: Digits to be added
END		

Example 1: When the PBX is an end office in a network employing an Open Numbering System, office A requires all the digits dialed on an incoming call from the PBX.

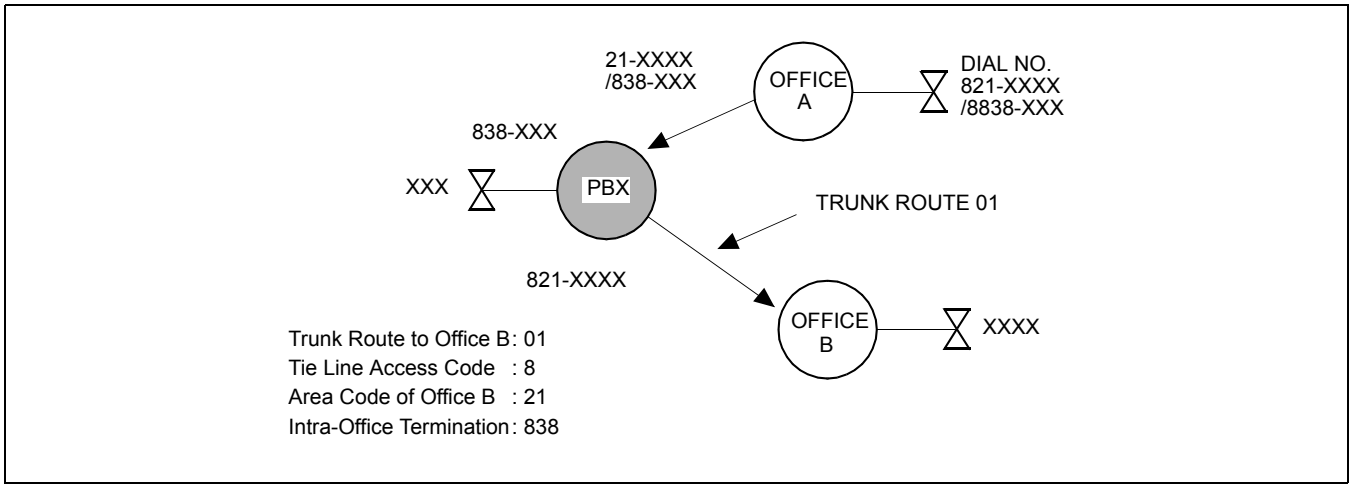


Trunk Route : 0
Tie Line Access Code : 8
Area Code of Office A : 21
Area Code of Office B : 22
Area Code of Office C : 23
Numbering Plan Group : 0

Programming for **Example 1:**

COMMAND CODE	1ST DATA	2ND DATA	REMARKS
20 Y=0	8	A126	Assignment of Access Code 8 of LCR Group 0.
8A Y=A000	0	4005	Assignment of Area Code Development Pattern No. 5.
8A Y=4005	21	0000	Assignment of Route Pattern
8A Y=4005	22	0000	No. 00 to Area Codes 21, 22, and 23.
8A Y=4005	23	0000	
8A Y=0000	1	00000	Assignment of the order of LCR selection (1st) for Route Pattern No. assigned by Y=4005.
8A Y=5000	100	9000	Assignment of Digit Addition Pattern No. 000.
8A Y=9000	0	8	Assignment of the digital code to be added for each area code.

Example 2: When the PBX is a Tandem Office in the network.



Programming for **Example 2:**

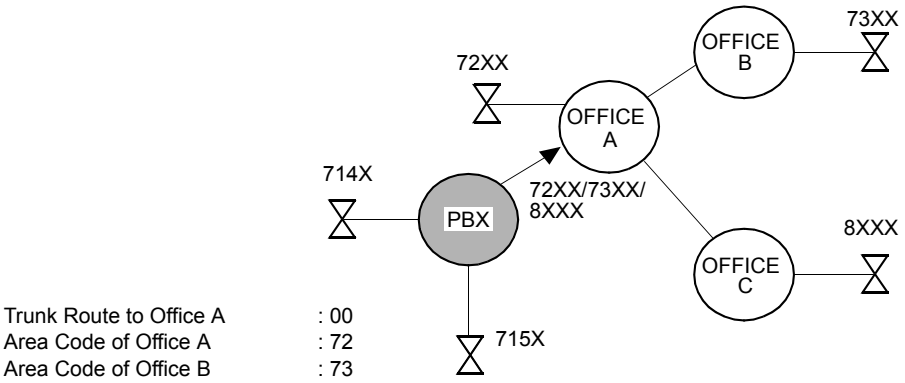
COMMAND CODE	1ST DATA	2ND DATA	REMARKS
20 Y=0	8	A126	Assignment of Access Code 8 of LCR Group 0.
8A Y=A000	0	4005	Assignment of Area Code Development Pattern No. 5.
8A Y=4005	21	0001	Assignment of Route Pattern No. 001 to Area Code 21 of office B.
8A Y=4005	838	8000	Assignment of Intra-Office Termination to the office code 838.
8A Y=0000	1	00001	Assignment of the order of LCR selection (1st) for Route Pattern No. assigned by Y=4005.

• For Closed Numbering System

START	DESCRIPTION	DATA
CM20	Assign an access code for LCR Group 3.	• Y=0-3 Numbering Group 0-3 (1) X-XXXX: Access Code (2) A129: LCR Group 3
CM8A	Assign an Area Code Development Pattern number to LCR Group 3.	• Y=A000 (1) 3: LCR Group 3 (2) 4005-4007: Area Code Development Pattern No. 5-7
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	• Y=4005-4007 Area Code Development Pattern No. 5-7 (1) NXX/1NXX: Area Code, Maximum 8 digits (2) 0000-0255: Route Pattern No. 000-255
	Assign an area code (station number) for Intra-Office Terminations, if required.	• Y=4005-4007 Area Code Development Pattern No. 5-7 (1) X-XXXXXXXX: Area Code (Maximum 8 digits) (2) 8001-8008: 1-8 digits Intra-office station
	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.	• Y=0000-0255 Route Pattern No. 000-255 (1) 1-4: Order of LCR Selection 1: 1st 2: 2nd 3: 3rd 4: 4th (2) XXX ZZ XXX: 000-255: LCR Pattern No. ZZ : 00-63: Trunk Route No.
	Assign the digits to be deleted when deleting digits of an area code sent to a distant office. To delete all digits of an area code:	• Y=5000-5255 LCR Pattern No. 000-255 (1) 151: Deletion of all digits of area code (NXX, 1NXX) assigned by CM8A Y=4005-4007 (2) 0: To delete
A		

	DESCRIPTION	DATA
A		
CM8A	To delete the designated digits of an area code:	• Y=5000-5255 (1) 153: Designation of digit to be deleted (2) 00 : No digits deleted 01-10: First digit deleted-First 10 digits deleted CCC : No digits deleted
	Assign the digits to be added when adding digits to those sent to a distant office.	• Y=5000-5255 (1) 100: Designation of digit Addition Pattern No. (2) 9000-9255: Digit Addition Pattern No. 000-255 CCC : No digits added
		• Y=9000-9255 Digit Addition Pattern No. 000-255 (1) 0 (2) X-X...X: Digits to be added (Maximum 32 digits) X=0-9, A (*), B (#), C (Fixed Pause), D (Programmable Pause)
CM35	Assign the digit to be added to the required trunk routes when adding digits to those received from a distant office.	• Y=17 (1) 00-63: Trunk Route No. (2) 00-09: Add “0”-Add “9” 10 : Add 2 digits per CM50 Y=00>0
	Assign the data for digit deletion to required trunk routes for deleting the first one or two digits received from a distant office.	• Y=17 (1) 00-63: Trunk Route No. (2) 11: Delete first digit 12: Delete first 2 digits
CM50	If two digit addition is required (CM35 Y=17, 2nd data=10), assign the digits to be added.	• Y=00 (1) 0 (2) XX: Digits to be added
END		

Example 1: When the PBX is an end office in a network employing a Closed Numbering System.

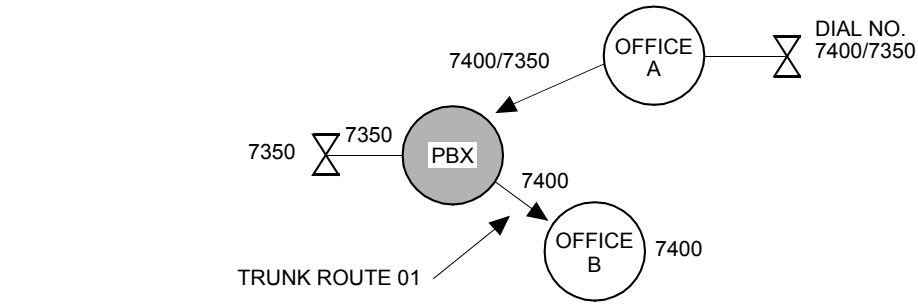


Trunk Route to Office A : 00
Area Code of Office A : 72
Area Code of Office B : 73
Area Code of Office C : 8
Area Code of Intra-Office Station : 715
Numbering Plan Group : 0

Programming for **Example 1:**

COMMAND CODE	1ST DATA	2ND DATA	REMARKS
20 Y=0	7	A129	Assignment of Access Code (7, 8) to LCR Group
20 Y=0	8	A129	3.
8A Y=A000	0	4005	Assignment of Area Code Development Pattern No. 5.
8A Y=4005	72	0000	Assignment of Route Pattern No. 000 to Area
8A Y=4005	73	0000	Code (72, 73, 8).
8A Y=4005	8	0000	
8A Y=4005	715	8004	Assignment of the 4-digit Intra-Office Station to the Area Code 715.
8A Y=0000	1	00000	Assignment of the order of LCR selection (1st) for Route Pattern No. assigned by CM8A Y=4005.

Example 2: When the PBX is a Tandem Office in the network.



Trunk Route to Office B : 01
Area Code of Office B : 740
Area Code of Intra-Office Station : 735
Numbering Plan Group : 0

Programming for **Example 2:**

COMMAND CODE	1ST DATA	2ND DATA	REMARKS
20 Y=0	7	A129	Assignment of Access Code 7 of LCR Group 3.
8A Y=A000	3	4005	Assignment of Area Code Development Pattern No. 5.
8A Y=4005	740	0001	Assignment of Route Pattern No. 001 to Area Code 740 of Office B.
8A Y=4005	735	8004	Assignment of the 4-digit Intra-Office Station to the Area Code 735.
8A Y=0000	1	00001	Assignment of the order of LCR selection (1st) for Route Pattern No. assigned by CM8A Y=4005.

VARIABLE TIMING PARAMETERS

PROGRAMMING

START	DESCRIPTION	DATA
CM41	Specify the Timing Parameters according to the user's requirements. If no data is set (Displayed "NONE") the standard timing which is initially set is applied.	• Y=0-3 (1) XX: See the Command Manual. (2) XX: See the Command Manual.
END		

VOICE GUIDE

PROGRAMMING

To provide the message that is sent when a station goes off hook while Message Waiting/Call Forwarding-All Calls/Do Not Disturb service is set to the station:

START	DESCRIPTION	DATA
CM08	Specify the multiple connections of the Digital Announcement Trunk (DAT card) on Announcement Service.	(1) 124 (2) 0 : Available 1◀: Not available (Single connection)
CM10	Assign a Digital Announcement Trunk card number to the required LEN. **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1 : EB002-EB031 For PIM2/3 : EB032-EB063 For PIM4/5 : EB064-EB095 For PIM6/7 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM14	Assign a Digital Announcement Trunk card number to the required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The Digital Announcement Trunk card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00 : EB002-EB031 For FP No. 01 : EB032-EB063 For FP No. 02 : EB064-EB095 For FP No. 03 : EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in Digital Announcement Trunk of the MP card.*
CM12	Assign Service Restriction Class A for Announcement Service to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
A		

	DESCRIPTION	DATA
A		
CM15	Allow Announcement Service in Service Restriction Class A assigned by CM12 Y=02.	• Y=34 Group 0 • Y=35 Group 1 • Y=36 Group 2 • Y=37 Group 3 • Y=38 Group 4 • Y=39 Recording for Announcement Service (Group 0-4) (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign access codes for Announcement Service.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A103: Record (Group 0-4) A104: Replay (Group 0) A105: Replay (Group 1) A106: Replay (Group 2) A107: Replay (Group 3) A108: Replay (Group 4) A109: Delete (Group 0-4)
CM48	Specify the dial tone, which is sent when a station goes off hook while the service is set for the station, as Special Dial Tone.	• Y=2 (1) 12: Dial Tone on setting Message Waiting 13: Dial Tone on setting Call Forwarding-All Calls 14: Dial Tone on setting Do Not Disturb (2) 0: Special Dial Tone
CM15	Allow Voice Guide set by CM48 Y=2>12, 13, 14 in Service Restriction Class A assigned by CM12.	• Y=116 (1) 00-15: Service Restriction Class A assigned by CM12 (2) 1◀: Allow
CM49	Assign the Voice Guide function for each Digital Announcement Trunk card.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. assigned by CM10/CM14 (EB002-EB127) (2) 17XX: Voice Guide XX : 00-63: Message No.
	Assign the Message sent when the station goes off hook.	• Y=13 (1) 00: Message sent when Message Waiting is set 03: Message sent when Call Forwarding-All Calls/Do Not Disturb is set (2) 00-63: Message No.
END		

NOTE 1: *While both Message Waiting and Call Forwarding-All Calls/Do Not Disturb Service are set to the station, the message assigned by CM49 Y=13>00 is sent.*

NOTE 2: *While Message Reminder (from station/attendant) Service is set to the station, the message assigned by CM49 Y=13>00 is sent.*

NOTE 3: *While Split Call Forwarding-All Calls Service is set to the station, the message assigned by CM49 Y=13>03 is sent.*

To provide the Message which is sent when the service feature setting to the station is completed or canceled:

START	DESCRIPTION	DATA
CM49	Assign the Voice Guide function for each Digital Announcement Trunk card.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. assigned by CM10/ CM14 (EB002-EB127) (2) 17XX: Voice Guide XX : 00-63: Message No.
	Assign the Message number when service setting is completed or canceled to station.	• Y=13 (1) 01: Message sent when service is set 02: Message sent when service is canceled (2) 00-63: Message No.
CM41	Message Replay Timer for Announcement Service.	• Y=0 (1) 53 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 60-64 seconds.
END		

HARDWARE REQUIRED

DAT card or MP card (Built-in DAT)

VOICE MAIL INTEGRATION

PROGRAMMING

In addition to the programming of CALL FORWARDING-ALL CALLS/BUSY LINE/NO ANSWER, do the following programming.

START	DESCRIPTION	DATA
CM08	Specify whether Ringing Transfer to an Attendant via VMS is available.	(1) 063 (2) 0 : Available 1◀: Not available
	Specify the sending of the Mail Box number to the VMS when the VMS is recalled after transferring a call to an unanswered station.	(1) 333 (2) 0 : To send 1◀: Not sent
CM13	Provide Message Waiting service for a station with MW lamp.	• Y=03 (1) X-XXXXXXXX: Station No. (2) 0: To provide
	Provide VMS service for a station port interfaced with the VMS (VMS station).	• Y=10 (1) X-XXXXXXXX: Station No. (2) 0: To provide
	Provide Message Waiting service for a VMS station port.	• Y=13 (1) X-XXXXXXXX: Station No. (2) 0: To provide
CM12	Assign Service Restriction Class A for Message Waiting to a station with a MW lamp and a VMS station port.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Message Waiting in Service Restriction Class A assigned by CM12 Y=02.	• Y=24 Station with MW lamp • Y=40 VMS Station (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
A		

A

	DESCRIPTION	DATA
CM20	Assign the access code for MW lamp set/reset from a VMS station port.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access code (2) A040: Set A041: Reset
	Assign the access code to retrieve a message from the VMS and search Message Reminder/ Message Waiting.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access code (2) A146: Search A147: Retrieve
CM50	Assign the access code to be sent out to a VMS after/before a Mail Box number, if required. **NOTE 1:** *"C" or "D" should not be assigned as the first digit of an access code, to insert prepause timing. Prepause timing is assigned by CM41 Y=0>44.* **NOTE 2:** *If "C" is inserted in the access code, it can be used as a pause (1.5 seconds). To provide a programmable pause, insert "D" instead of "C" (Programmable Pause: CM41 Y=0>38).*	• Y=00 (1) 3: Access Code to be sent out before a Mail Box No. **NOTE 1** 4: Access Code to be sent out after a Mail Box No. (2) XX-XXXX: Access code to be sent out to a VMS X: 0-9, A (*), B (#), C/D (Pause) **NOTE 2** NONE ◀: Not sent out
CM41	Specify the prepause timing, DTMF signal width, and Inter-digital pause for VMS.	• Y=0 (1) 44: Prepause Timing (2) 00-12, 13: 0-12, 0.5 seconds If no data is set, the default setting is 1 second.
	Specify the DTMF signal width for VMS.	• Y=0 (1) 48 (2) 01: 64 ms. 02: 128 ms. If no data is set, the default setting is 128 ms.
	Specify the DTMF inter-digital pause for VMS.	• Y=0 (1) 49 (2) 01: 32 ms. 05: 120 ms 02: 64 ms. 06: 160 ms. 03: 80 ms. 07: 200 ms. 04: 100 ms. 08: 240 ms. If no data is set, the default setting is 160 ms.

B

	DESCRIPTION	DATA
B		
CM77	Assign VMS display, if required.	• Y=0 By Character Code (1) X-XXXXXXXX: Station No. (2) 564D53: VMS character code • Y=1 By Character (1) X-XXXXXXXX: Station No. (2) VMS (Character)
CM51	Assign the VMS station as the destination of a call from a station which is set Message.	• Y=15 (1) 00-63: Tenant No. (2) X-XXXXXXXX: VMS Station No.
CM90	Assign the MW lamp on a D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1005
	To access the VMS from DESKCON, assign Out Pulse (DTMF signal) -short/long key.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6112: Out Pulse (DTMF signal)-short F6113: Out Pulse (DTMF signal)-long
CM41	When Out Pulse (DTMF signal)-long is designated by CM90, assign the DTMF signal width. **NOTE:** *When Out Pulse (DTMF signal)-short is designated by CM90, DTMF signal width is set to 128 ms. (Fixed).*	• Y=0 (1) 14: DTMF signal width (2) 01-50: 64-3200 ms. (64 ms. increments) If no data is set, default setting is 512 ms.
	To allow Voice Mail Private Password:	
CM65	Assign Password Privacy for the Tenant number of the VMS ports. **NOTE:** *This is effective for ports assigned as VMS ports in CM13 Y=10.*	• Y=30 (1) 00-63: Tenant No. of VMS ports (2) 0 : Allow 1◀: Not allowed
END		

To provide the Message Waiting Indication per line when a D^{term} accommodates multiline:

START	DESCRIPTION	DATA
CM11	Assign a Virtual Line station number to required Virtual LEN.	(1) 000-255: Virtual LEN **[Series 3300 software or before]** 0000-1019: Virtual LEN **[Series 3400 software or later]** (2) X-XXXXXXXX: Virtual Line station No.
	The Virtual LEN has no relation with the physical LEN used in CM10/CM14. Therefore, any Virtual LEN can be assigned to each Virtual Line station number. However, the Virtual Line station number should be different from Single line number assigned by CM10/CM14.	
CM90	Accommodate the Virtual Line to the D^{term}.	• Y=00 (1) My Line No. + [,] + Key No. (2) X-XXXXXXXX: Virtual Line station No.
CM08	Provide the system with Message Waiting indication on Line Key of D^{term}.	(1) 140 (2) 0: Available
CM12	Specify the Message Waiting Lamp Indication on Line/Trunk/Feature keys of D^{term}.	• Y=62 (1) X-XXXXXXXX: Station No. (2) 0 : Not indicated 3◀: Message Waiting Lamp Indication (effective when CM08>140: 0)
END		

VOICE MAIL TRANSFER

To transfer a call from an Attendant to a VMS, if Camp-On is set to the transferred destination, and that is not answered by predetermined timing:

START	DESCRIPTION	DATA
CM08	Provide the system with VMS transfer.	(1) 428: VMS transfer with Camp-On (2) 0: To provide
CM41	Specify the timer of Attendant Recall for Camp-On.	• Y=0 (1) 00: Attendant Recall Timer (2) 01-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) If no data is set, the default setting is 31.2-33.6 seconds.
CM51	Specify the destination VMS station number when a Camp-On call is not answered. The first data should be the tenant number of the destination station called.	• Y=18 Destination VMS No. assignment (1) 00-63: Tenant No. (2) X-XXXXXXXX: VMS Pilot No.
END		

To transfer a call from an Attendant or a station to a VMS by dialing of a Single Digit Feature Access Code "9" or by pushing a function key, while hearing RBT or BT from the destination station:

START	DESCRIPTION	DATA
CM08	Specify whether dialing of the Single Digit Feature Access Code is available or not while hearing RBT.	(1) 156: Single Digit Feature Access Code while hearing RBT (2) 0 : Available 1◀: Not available
	Specify whether dialing of the Single Digit Feature Access Code is available or not while hearing BT.	(1) 208: Single Digit Feature Access Code while hearing BT (2) 0 : Available 1◀: Not available
CM51	Specify the destination VMS station number by transferring with Single Digit Feature Access Code or a function key. The first data should be the tenant number of the destination station called.	• Y=18 Destination VMS No. assignment (1) 00-63: Tenant No. (2) X-XXXXXXXX: VMS Pilot No.
CM90	To the DESKCON or the D^{term}, assign a function key to transfer a call to a VMS while hearing RBT or BT, if required.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6123: Transferring to VMS (1) My Line No. + [,] + Key No. (2) F5001: Transferring to VMS
END		

To provide a D^{term} with One Touch keys to send Called Number + DTMF Signal after the called party answered, for VMS operations (such as "VMS Extension number + Mail Box number or Password"), refer to the programming (2), (4) in the "STATION SPEED DIALING". ☞ *Page 671*, ☞ *Page 673*

HARDWARE REQUIRED

For interfacing to a VMS with Analog Dialogic Board: LC card
For interfacing to a VMS with Digital Dialogic Board: DLC card
For providing the Single-Line Telephone with a Message Waiting Lamp: 4LCD/8LC card
For providing the D^{term}: DLC card

WHISPER PAGE

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for required stations.	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Specify Service Restriction Class A for whispering station and whispered station.	• Y=111 Whispering station • Y=112 Whispered station (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Restricted 1◀: Allow
CM20	Assign the access code for Whisper Page.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access code (2) A188: Whisper Page
CM90	Provide the D^{term} (whispering side) with a Whisper Page key, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0A88: Whisper Page
CM08	Specify whether the call termination to My Line is restricted or allowed, while the station user makes a call with a Sub Line or trunk line on the D^{term}.	(1) 268 (2) 0 : Restricted 1◀: Allow
	Specify Busy/Idle status check method as "Station Base" or "Extension Base".	(1) 269 (2) 0 : Station base 1◀: Extension base
	NOTE: *When CM08>268 and CM08>269 is set to "0", Whisper Page is available for the extension which is making a call with a secondary extension or trunk line on the D^{term}.*	
CM48	Specify the dial tone, which is sent to the other party when the whispered station answers the Whisper Page.	• Y=2 (1) 17 (2) 0 : No Tone 1◀: Hold Tone
END		

CHAPTER 2

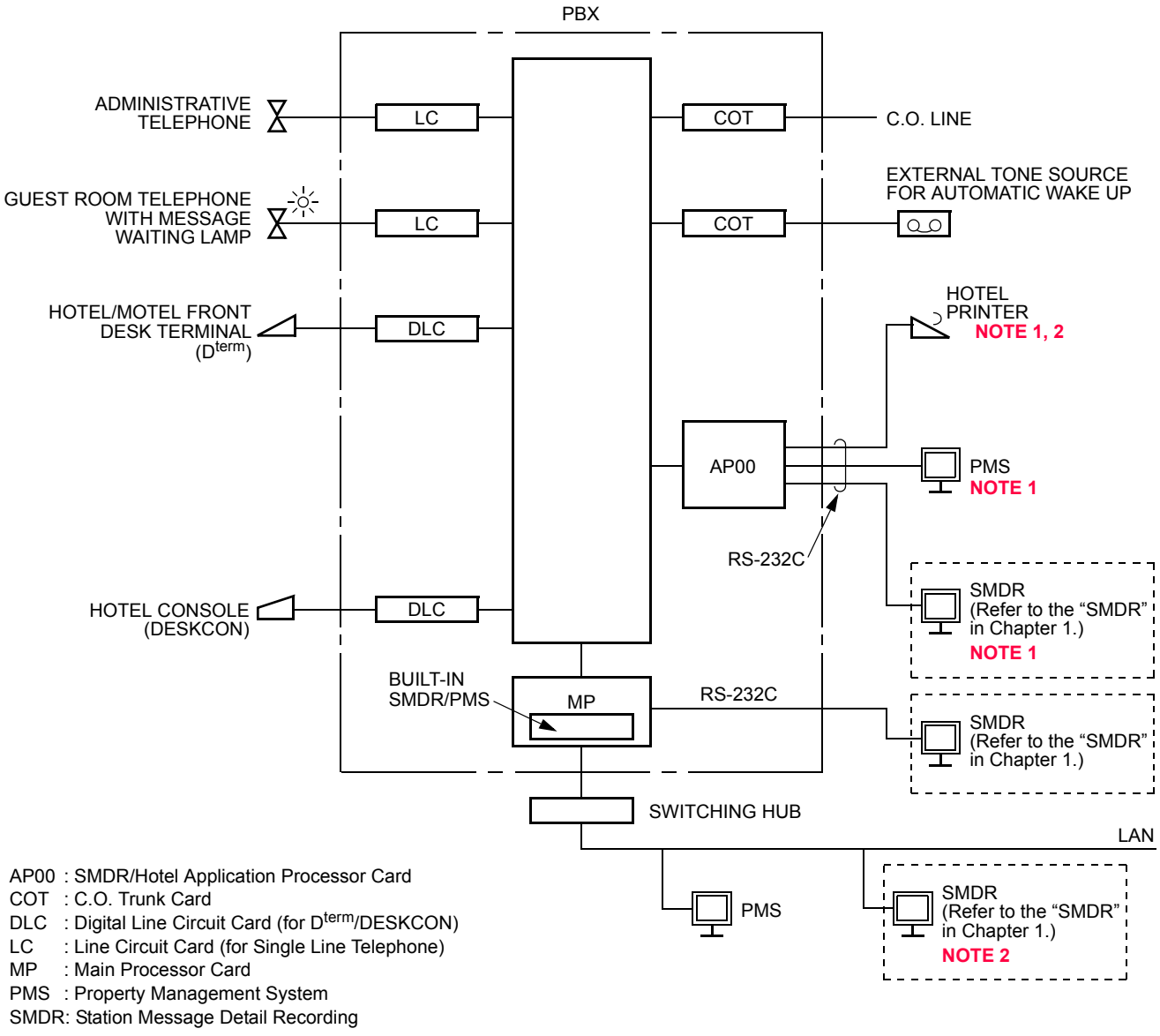
HOTEL FEATURES

This chapter explains the system outline, system capacity, system specifications, system programming and hardware requirements for the Hotel System.

HOTEL SYSTEM OUTLINE

The figure below shows the system outline of hotel system.

System Outline of Hotel System



AP00 : SMDR/Hotel Application Processor Card
COT : C.O. Trunk Card
DLC : Digital Line Circuit Card (for D^{term}/DESKCON)
LC : Line Circuit Card (for Single Line Telephone)
MP : Main Processor Card
PMS : Property Management System
SMDR: Station Message Detail Recording

NOTE 1: *PMS, SMDR 1400 IMS Format and Hotel Printer are not available for AP00-B/AP00-D card with MRCA program.*

NOTE 2: *SMDR 1400 IMS Format and Hotel Printer are not available for Built-in SMDR/Built-in PMS.*

Application Processor/Main Processor

- PMS with AP00 on RS-232C
  The Application Processor (AP) manages guest or administration room status and stores call information on each guest or administrative station. The AP also provides RS-232C interface ports for a Property Management System (PMS) terminal, a Station Message Detail Recording (SMDR) terminal and a Hotel Printer.

- MP built-in PMS on IP
  [Series 3400 software required]
  The Main Processor (MP) manages guest or administration room status and stores call information on each guest or administrative station. The MP also provides a LAN interface port for a Property Management System (PMS) terminal or a Station Message Detail Recording (SMDR) terminal.

Hotel Console

The DESKCON is programmed as a Hotel Console. The Hotel Console can access Room Cutoff (individual and group), Automatic Wake Up, Message Waiting, or Do Not Disturb (individual and group) with the function keys; in addition to the attendant features and functions.

Hotel/Motel Front Desk Terminal

The D^{term} can be programmed to function as a Hotel/Motel Front Desk Terminal. This allows setting and canceling of the following hotel features:

- Automatic Wake Up
- Check In/Check Out **NOTE**
- Do Not Disturb
- Do Not Disturb-Override
- Message Waiting
- Room Cutoff
- Room Status **NOTE**
- Hotel/Motel Toll Restriction Change-Guest Station

NOTE: *When MP built-in PMS on IP is provided, you can set and cancel these hotel features only from PMS.*
- *Check In/Check Out*
- *Room Status*

Property Management System (PMS)

The PBX provides a data link interface to the customer supplied Property Management System (PMS) accommodating hotel management features. The PMS can be any computer connected to the PBX via a RS-232C interface or a LAN interface. It communicates with the PBX using the specified protocols.

The data link interface allows the PMS to accommodate both front- and back-office hotel management features, by providing a means of communication between the PMS and the PBX for features such as Check In/Check Out, Message Waiting, Station Message Detail data, and control functions such as Do Not Disturb and Room Cutoff.

The PMS can communicate with the PBX to obtain the following information:

(1) Maid Status
This information can be entered from either a guest room telephone or Front Desk Terminal, and will automatically be transmitted to the PMS for data update.

(2) Message Waiting Lamp Status Change
This information can be entered from the Attendant Console or Front Desk Terminal. It is then automatically transmitted to the PMS for data update. If the automatic MW lamp off feature is activated, MW data is cleared and status is sent to PMS.

(3) Station Message Detail Data
This information is transmitted to the PMS after completion of each local and toll call.

(4) Wake Up Service
This information can be entered from the Attendant Console, Front Desk Terminal or guest room station, and will be automatically transmitted to the PMS for data update.

(5) Do Not Disturb/Room Cutoff
This information can be entered from the Attendant Console or Front Desk Terminal, and will be transmitted to the PMS by request from the PMS.

(6) Check In/Check Out
When PMS with AP00 on RS-232C is provided, this information can be entered from the Attendant Console or Front Desk Terminal, and will be automatically transmitted to the PMS for status update.

NOTE: *When MP built-in PMS on IP is provided, this information can be entered only from the PMS and will be transmitted to the PBX for status update.*

(7) Room data image messages indicating requests for data base updates and data base images.

(8) Room change, room swap and room copy for data update.

NOTE: *Room copy is available only when MP built-in PMS on IP is provided.*

(9) Room occupancy change and room data change for data update.

(10) Routine activity checks between the PMS and the PBX.

(11) Hotel/Motel DID Number Allocation to Guest Station
Hotel/Motel DID Number Allocation to Guest Station is set/canceled from PMS.
This information is sent to PMS when the DID number is set/canceled.

NOTE: *Hotel/Motel DID Number Allocation to Guest Station is available only when MP built-in PMS on IP is provided.*

The PMS can send the following information to the PBX.

(1) Maid status
(2) MW lamp status changes
(3) Telephone restriction status changes
(4) Check In/Out messages
(5) Room data image inquiry
(6) Wake Up status changes
(7) Room change, room swap and room copy **NOTE**
(8) Room occupancy and room data change
(9) Status inquiry for routine activity checks
(10) Guest Name and Guest Room Information to be displayed on Administrative Station, Front Desk Terminal and Hotel Console **NOTE**
(11) Hotel/Motel DID Number Allocation to Guest Station **NOTE**

NOTE: *Room copy, Guest Room Information display and DID Number Allocation to Guest station are available only when MP built-in PMS on IP is provided.*

Station Message Detail Recording (SMDR)

The Station Message Detail Recording (SMDR) sends out the outgoing/incoming C.O. call information to an external SMDR terminal (Personal Computer). The SMDR is usually used in conjunction with the PMS and used for the following purposes.

- Management of guest/administrative station call
  The PMS does not manage the guest/administrative station call.

- Backup of guest/administrative station call for a PMS failure

- Management of either guest or administrative station call
  For example, the SMDR manages an administrative station call, and the PMS manages a guest station call

Hotel Printer

When PMS with AP00 on RS-232C is provided, the various system messages and the guest room status can be obtained through a locally provided Hotel Printer. The following information is automatically printed out as a system message:

- Wake Up attempts whether successful or not.
- Remaining messages for the station which is set to Check Out.
- Codes and quantities of the goods requested from a guest room by Direct Data Entry.

If the print out function key is provided on the Front Desk Terminal, the status of the following features are printed out when the feature is set or reset and Room Status print out is activated:

- Automatic Wake Up
- Check In/Check Out
- Do Not Disturb
- Message Waiting
- Room Cutoff
- Room Status-individual guest station/all guest stations

HOTEL SYSTEM CAPACITY

ITEM	CAPACITY
Guest/Administrative Station	512 **[Series 3300 software or before]** 1020 **[Series 3400 software or later]**
Front Desk Terminal	8
Hotel Console	8
Hotel Printer	2
I/O port for PMS/SMDR/Hotel Printer	2
I/O port for SMDR/PMS via LAN	1
I/O port for Hotel Printer	2

HOTEL SYSTEM SPECIFICATIONS

- PMS/SMDR Interface via RS-232C/Hotel Printer Interface

ITEM	SPECIFICATIONS	
	PMS/SMDR INTERFACE	HOTEL PRINTER INTERFACE
Physical Interface	RS-232C	RS-232C
Synchronization	Asynchronous	Asynchronous
Protocol	IMS Procedure	-
Transmission Speed	1200/2400/4800/9600 bps (for PN-AP00-B with AP00 program) NOTE 300/1200/2400/4800/9600/19200 bps (for PN-AP00-B/PN-AP00-D with MRCA program)	1200/2400/4800 bps
I/O port	No. 0-3 port of AP00-B/AP00-D card	No. 0/3 port of AP00-B/AP00-D card

NOTE: *For the port 1 and port 3 of AP00-B card with AP00 program, data speed cannot be set to 9600 bps.*

- PMS/SMDR Interface via LAN

ITEM	SPECIFICATIONS
Physical layer	Ethernet
Connection layer	The Ethernet packet format complies with the DIX standard.
TCP/IP protocol	ARP, IP, ICMP, UDP, TCP
Socket interface	Complies with 4.3 BSD socket interface
Transport protocol	TCP stream type protocol
Application port number	SMDR: 60010 (fixed) PMS : 60050 (fixed)
Number of connection	1
Client/Server	Client : SMDR/PMS terminal Server: PBX
Transmission code	7-bit ASCII code
Quasi-normal restriction condition	1. When connection is closed 2. Status monitoring text

NOTE: *The MP card in Main site communicates with the SMDR/PMS terminal. Therefore, in the communication settings in SMDR/PMS terminal side, set the IP address to be connected to the address specified by office data (CM0B Y=00>00 or CM0B Y=02>03), and application port number shown in the above table.*

HOTEL FEATURE LIST

Hotel Feature List

×: Applicable –: Not applicable

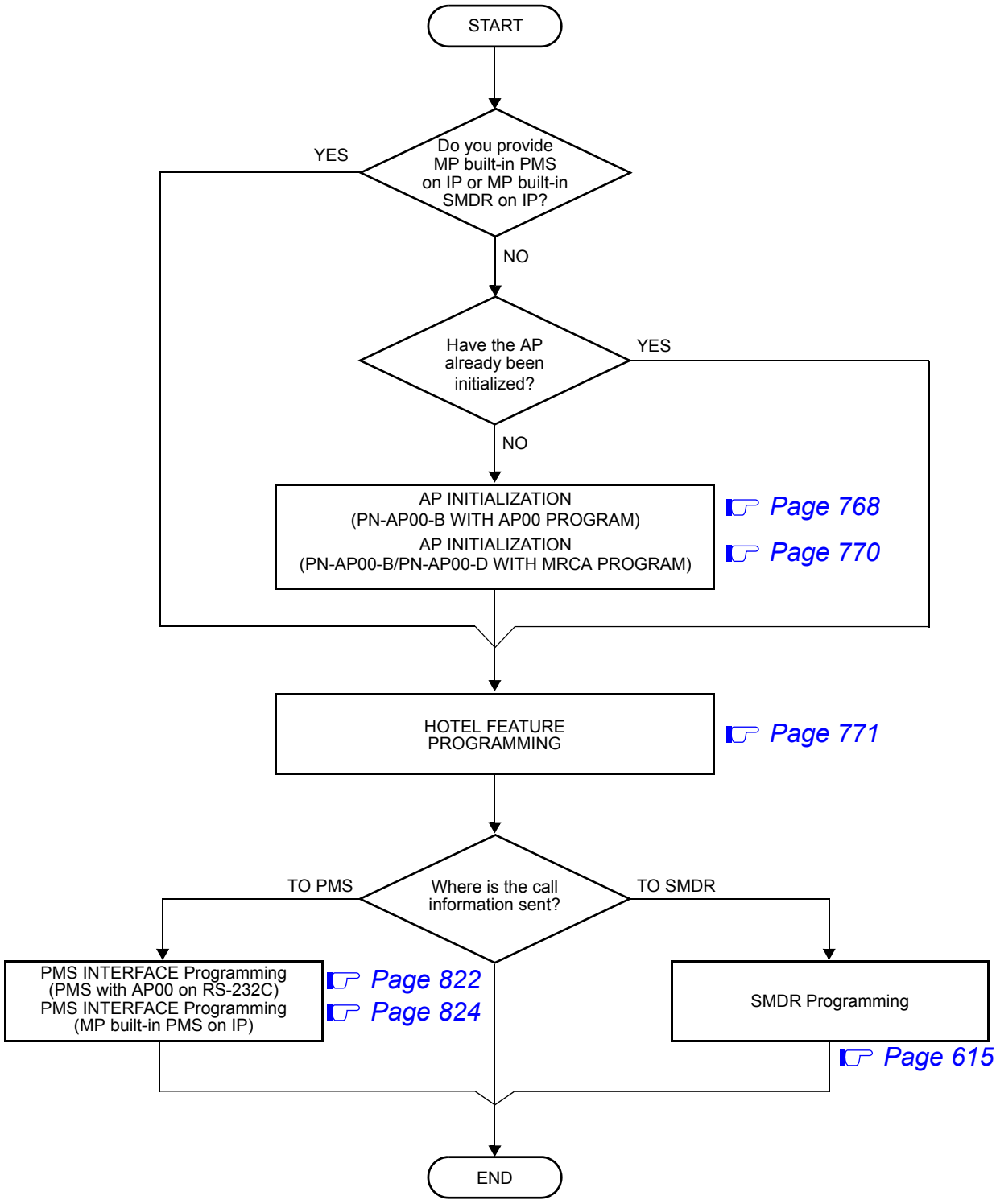
FEATURE NAME	APPLICATION				
	GUEST	ADMINISTRATIVE	FRONT DESK TERMINAL	HOTEL CONSOLE	PMS
Automatic Wake Up	×	×	×	×	×
Check In/Check Out **NOTE 1**	–	–	×	–	×
Direct Data Entry	×	–	–	–	×
Do Not Disturb-Hotel/Motel	×	×	×	×	×
Do Not Disturb-System **NOTE 2**	–	–	×	×	–
Hotel/Motel Attendant Console	–	–	–	×	–
Hotel/Motel DID Number Allocation to Guest Station **[Series 3900 software required]**	×	–	–	–	×
Hotel/Motel Front Desk Instrument	–	–	×	–	–
Hotel/Motel Toll Restriction Change-Guest Station **[Series 3900 software required]**	×	–	×	×	–
House Phone	×	×	×	×	–
Maid Status	×	×	×	–	×
Message Registration	–	–	×	–	×
Message Waiting **NOTE 2**	–	×	×	×	×
Property Management System Interface	–	–	–	–	–
Room Cutoff **NOTE 2**	–	–	×	×	×
Room Status **NOTE 2**	–	–	×	×	–
Single Digit Dialing	×	×	×	×	–

NOTE 1: *For MP built-in PMS on IP, only PMS can set/cancel this feature to a guest station.*
For PMS with AP00 on RS-232C, Front Desk Terminal, Hotel Console or administrative station can set/cancel this feature to a guest station.

NOTE 2: *Front Desk Terminal, Hotel Console or administrative station can set/cancel this feature to a guest station.*

HOTEL SYSTEM PROGRAMMING SUMMARY

Programming Summary for Hotel System



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JULY/01/2006

HOTEL SYSTEM PROGRAMMING

PRECAUTION

Before programming the system data for the Hotel feature, confirm that the system is under the following status.

- The system is under On-Line mode. ("RUN" lamp is flashing on the MP card.)
- The AP00 card is mounted in the correct location. (for SMDR with AP00, PMS with AP00, or Hotel Printer)
- All the system data pertaining to the station, trunks, and service features have already been programmed.

STATION NUMBER DATA LOADING

The AP00 stores the station number data loaded from the MP. When station numbers have been added, deleted or changed by CM10/CM14, the station number data must be reloaded to the AP00 by the following procedure.

(1) Flip the MB switch of the AP00 to UP position.

(2) Return the MB switch to DOWN position.

(3) The "**** AP00 START ****" message is printed if a printer provided.

(4) The "SORT COMPLETE" message is printed when the station number has been sent to the AP00.

DIGITS OF STATION NUMBER

The maximum digits of the station number is remitted according to the interface between the system and the PMS as follows.

- PMS with AP00 on RS-232C: maximum 4 digits
- MP built-in PMS on IP: maximum 6 digits **[Series 3400 software is required]**

AP INITIALIZATION (PN-AP00-B WITH AP00 PROGRAM)

This section explains the data assignment to make the AP active.
You can skip the data assignment explained on this section, if one of the following AP related features has been activated; Station Message Detail Recording (SMDR), Message Center Interface (MCI), Property Management System (PMS), or Hotel Printer. You can distinguish whether the AP is active or not by the RUN lamp indication. The RUN lamp flashes on green color when the AP is in active.
When you install the AP00 for the first time, you should assign the data shown below.

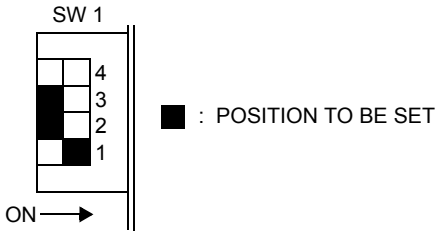
START

CM05

Assign an AP number to the AP00 card.
The AP number must match the SENSE switch setting on the AP00 card.

(INITIAL)

On the AP00 card, set SW1 switch as shown below.



- Y=0

(1) 04-15, 20-31: AP No.
(2) 04: AP00 card

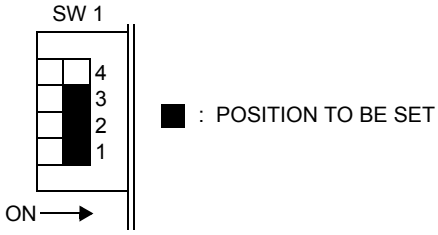
SW1-4 should be set as follows;
ON : The AP No. is 04-15
OFF: The AP No. is 20-31

CMD101

Load the initial data into the AP00 card.

(AP OFF LINE)

On the AP00 card, set the SW1 switch as shown below:



(1) 0000
(2) CCC

SW1-4 should be set as follows;
ON : The AP No. is 04-15
OFF: The AP No. is 20-31

END

AP CONTROLLED STATIONS

[Series 3400 software required]

In Billing/Hotel features using the AP00 card (PN-AP00-B with AP00 program), a maximum of 504 stations can be controlled by the AP00 card. When 505 or more stations are accommodated in a system, you have to specify to each station whether a station is controlled by AP00 card or not.

START	DESCRIPTION	DATA
CM12	Specify to each station whether a station is controlled by AP00 card or not.	• Y=49 (1) X-XXXX: Station No. (2) 0 : Not controlled 1 : Controlled 3◀: Only 504 stations are controlled in order of station registration (The stations after the 504th are not controlled)

NOTE: *You can confirm the stations assigned by CM12 Y=49. Execute CM12 Y=91 10 minutes after AP initialization completed. Enter the first data which was assigned by CM12 Y=49, the system displays the second data. Check CM12 Y=49 data setting when NONE is displayed even though a station is set as a controlled station by AP00 card.*

CM12 Y=91 (Confirmation of stations controlled by AP00 card)
(1) X-XXXX: Station No.
(2) 000-503: Controlled Station No. 000-503
NONE : Not controlled

END

AP INITIALIZATION (PN-AP00-B/PN-AP00-D WITH MRCA PROGRAM)

[Series 3300 software required]

This section explains the data assignment to make the AP active.
You can skip the data assignment explained on this section, if one of the following AP related features has been activated; Station Message Detail Recording (SMDR) with NEAX 2400 IMS Format, Message Center Interface (MCI) or Do Not Disturb group set/cancel at specified timing in advance. You can distinguish whether the AP is active or not by the RUN lamp indication. The RUN lamp flashes on green color when the AP is in active.
When you install the AP00 the first time, you should assign the data shown below.

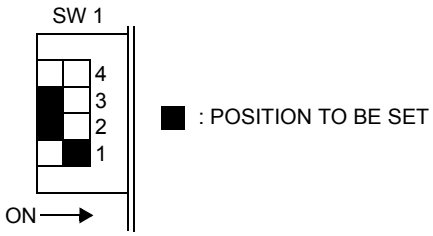
START

CM05

Assign an AP number to the AP00 card. The AP number must match the SENSE switch setting on the AP00 card.

(INITIAL)

On the AP00 card, set SW1 switch as shown below.



DATA

- Y=0

(1) 04-15, 20-31: AP No.
(2) 45: PN-AP00-B/PN-AP00-D card with MRCA program

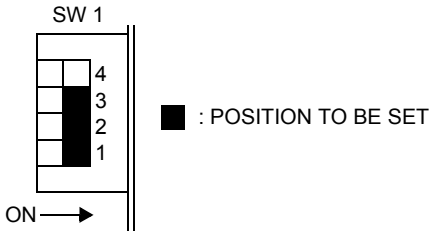
SW1-4 should be set as follows;
ON : The AP No. is 04-15
OFF: The AP No. is 20-31

CMDD99

Load the initial data into the AP00 card.

(AP OFF LINE)

On the AP00 card, set the SW1 switch as shown below.



(1) 0000
(2) CCC

SW1-4 should be set as follows;
ON : The AP No. is 04-15
OFF: The AP No. is 20-31

END

HOTEL FEATURE PROGRAMMING

AUTOMATIC WAKE UP

PROGRAMMING

To provide Automatic Wake Up from a guest station or administrative station, or Front Desk Terminal, or PMS:

NOTE: *PMS with AP00 on RS-232C is not available when using PN-AP00-B/PN-AP00-D with MRCA program.*

START	DESCRIPTION	DATA
CM08	Specify whether the printing of each hotel feature record with the printer using the PN-AP00-B/PN-AP00-D card (with MRCA program) is available or not. **[Series 3600 software required]**	(1) 835 (2) 0 : Available 1◀: Not available
CM12	Assign Service Restriction Class A to required guest or administrative station.	• Y=02 (1) X-XXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Automatic Wake Up in Service Restriction Class A assigned by CM12 Y=02.	• Y=13 Guest station • Y=20 Administrative station allowing single Wake Up Time operation • Y=21 Administrative station allowing multiple Wake Up Time operation (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1 ◀: Allow
	Allow Digital Announcement Trunk access (Record/Replay/Delete) in the Service Restriction Class A assigned by CM12 Y=02, if required.	• Y=33 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1 ◀: Allow
A		

A

	DESCRIPTION	DATA
CM20	Assign the access code for Wake Up call set or reset. **NOTE:** *This data assignment is not required when Wake Up is set by PMS.*	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A024: Wake Up set from guest A025: Wake Up cancel from guest A027: Wake Up set from administrative station with Single Wake Up Time operation **NOTE** A028: Wake Up set from administrative station with Multiple Wake Up Time operation **NOTE**
	When providing the DAT as the internal announcement source, assign the access code to record, replay, and delete a message, respectively.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete
CM48	Designate the type of tone source for Wake Up call. **NOTE:** *When the second data is set to "External Tone Source", system reset is required.*	• Y=1 (1) 00: Tone Source of Wake Up Call (2) XX 00 XX: 00: No Tone 02: External Tone Source (INITIAL) 05: Digital Announcement Trunk 14: Hold Tone Source on MP card 15: Internal Tone Generator
CM10	When an External Announcement Machine is required, assign the COT card and DK card to required LEN. **NOTE 1:** *The DK card number must be assigned to the first LEN (level 0) and the third LEN (Level 2).*	(1) 000-763: LEN (2) DB00-DB09: Interface card No. for External Announcement Machine E800-E831 : DK Card For PIM0/1: E800-E807 For PIM2/3: E808-E815 For PIM4/5: E816-E823 For PIM6/7: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*

B

B

	DESCRIPTION	DATA
CM14	When an External Announcement Machine is required, assign the COT card and DK card to required LEN. **[Series 3200 R6.2 software required]** **NOTE 1:** *The DK card number must be assigned to the first LEN (level 0) and the third LEN (Level 2).*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) DB00-DB09: Interface card No. for External Announcement Machine E800-E831 : DK Card For FP No. 00: E800-E807 For FP No. 01: E808-E815 For FP No. 02: E816-E823 For FP No. 03: E824-E831 **NOTE 2:** *Circuit No. 3 of E831 is used for built-in External Equipment Interface of MP card by setting CM44.*
CM08	Specify ON/OFF condition for external relay/ external key on MP built-in DK00 card.	(1) 700 (2) 0 : ON (Ground Start) OFF (Ground Off [Open]) 1◀: ON (Ground Off [Open]) OFF (Ground Start)
CM10	When the DAT is required, assign the DAT to the required LEN. To provide the restriction announcement for Wake Up call setting, assign the following DAT respectively. • DAT for Wake Up message • DAT for restriction announcement **NOTE 1:** *The DAT card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) 000-763: LEN (2) EB002-EB127: Digital Announcement Trunk Card No. For PIM0/1: EB002-EB031 For PIM2/3: EB032-EB063 For PIM4/5: EB064-EB095 For PIM6/7: EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in DAT of MP card.*

C

C

	DESCRIPTION	DATA
CM14	When the DAT is required, assign the DAT to the required LEN. To provide the restriction announcement for Wake Up call setting, assign the following DAT respectively. • DAT for Wake Up message • DAT for restriction announcement **[Series 3200 R6.2 software required]** **NOTE 1:** *The DAT card number must be assigned to the first LEN (Level 0), the third LEN (Level 2), the fifth LEN (Level 4) and the seventh LEN (Level 6) of each LT slot.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) EB002-EB127: Digital Announcement Trunk Card No. For FP No. 00: EB002-EB031 For FP No. 01: EB032-EB063 For FP No. 02: EB064-EB095 For FP No. 03: EB096-EB127 **NOTE 2:** *EB000 and EB001 are dedicated to built-in DAT of MP card.*
CM44	When an External Announcement Machine is required, assign the function for Wake Up to the DK card or MP built-in DK.	(1) XX Y XX: 00-31: DK Card No. assigned by CM10/CM14 (E800-E831) Y : 0-3: Circuit No. 313: MP built-in External Equipment Interface (2) 0100: External Announcement Machine for Wake Up Call
CM08	Specify the sending Wake Up message to Hotel Printer and PMS, when setting Wake Up feature from guest station.	(1) 200 (2) 0: Available
	Specify the timing for Wake Up call start.	(1) 228: Wake Up Call Start Timing (2) 0 : At preset time 1◀: 5 minutes prior to preset time

D

D

	DESCRIPTION	DATA
CM08	Specify the condition for printing the Wake Up call information if Hotel Printer is provided.	(1) 282:"RING ON OK" when call starts 283:"STATION BUSY" when station is busy 284:"CONNECTION BLOCK" when call is unsuccessful 286:"STATION ANSWER" when station answers 287:"STATION NO ANSWER" when station does not answer (2) 0 : Not printed 1◀: To print
	Specify whether Automatic Wake Up record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Automatic Wake Up.	(1) 267 (2) 0 : Available 1◀: Not available
CM90	Assign the function keys for Automatic Wake Up to the D^{term} of guest room station or administrative station, if provided. **NOTE:** *This data assignment is not required when Wake Up is set by PMS.*	• Y=00 (1) My Line No. + [,] + Key No. (2) F0024: Automatic Wake Up set/reset from guest station F0027: Automatic Wake Up set/reset from administrative station with Single Wake Up Time operation. **NOTE** F0028: Automatic Wake Up set/reset from administrative station with Multiple Wake Up Time operation. **NOTE**
	Assign the function keys for Automatic Wake Up to the Front Desk Terminal. **NOTE:** *This data assignment is not required when Wake Up is set by PMS.*	• Y=00 (1) My Line No. + [,] + Key No. (2) F1067: Automatic Wake Up **NOTE** F1074: Set F1075: Reset F1077: Release

E

E

	DESCRIPTION	DATA
CM49	When providing DAT, assign the answering message for Wake Up to the DAT card or MP built-in DAT.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk Card No. assigned by CM10/ CM14 (2) 0C XX: Answering message on Automatic Wake Up XX : 00-63: Message No. • Y=08 (1) 00-63: Tenant No. (2) 00-63: Message No. assigned by CM49 Y=00
CM41	Specify the duration of Wake Up call.	• Y=0 (1) 23 (2) 02-14: 8-56 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
	When providing the DAT, specify the duration of message replay timer for Automatic Wake Up.	• Y=0 (1) 52 (2) 01-99: 0-396 seconds (4 second increments) If no data is set, the default setting is 60-64 seconds.
CM42	Specify the number of Wake Up call attempts before abandonment.	(1) 03 (2) 01-05 : 1 call-5 calls NONE◀: 5 calls
	Specify the maximum number of Wake Up calls can be set at the same time. **NOTE:** *This command is effective up to Series 3400 software.*	(1) 04 (2) 01-32 : 1 station-32 stations NONE◀: 10 stations

F

F

	DESCRIPTION	DATA
CM08	Specify the action when the number of Wake Up calls exceeds the maximum number assigned by CM42>04.	(1) 806 (2) 0 : Restrict Wake Up call setting 1◀: Set to 5 or 10 minutes prior to preset time
CM49	Assign the restriction announcement for Wake Up call to the DAT card or MP built-in DAT.	• Y=00 (1) 000-001: Built-in DAT on MP card 002-127: Digital Announcement Trunk No. (EB002-EB127) assigned by CM10/CM14 (2) 1900: Restriction Announcement for Wake Up call
CMD000	Send Wake Up message to PMS when setting Wake Up feature, if PMS with AP00 on RS-232C is provided.	(1) 134 (2) 1: To send
	Specify the sending of result of Wake Up message when performing Wake Up feature.	(1) 135 (2) 1: To send
	Specify whether the printing of Wake Up set/cancel from Front Desk Terminal is available or not. **NOTE:** *This data is effective when Wake Up is set/canceled to individual station from Front Desk Terminal.*	(1) 156 (2) 0◀: Available 1 : Not available
CMD015	Assign the Service Class number for CMD016 to required stations, if PMS with AP00 on RS-232C is provided.	(1) X-XXXX: Guest/Administrative station No. (2) 00◀-15: Service Class No.
CMD016	Send Room Status Code which includes Wake Up record, to PMS, if PMS with AP00 on RS-232C is provided.	(1) XX 05: Room Status Code sending to PMS XX : Service Class No. assigned by CMD015 (2) 1: To send

END

To provide printing the set/cancel/execution record of Automatic Wake Up, refer to the programming in "PROPERTY MANAGEMENT SYSTEM INTERFACE". ☞ *Page 828*
[Series 3600 software required]

HARDWARE REQUIRED

To provide Hotel Printer or Front Desk Terminal or PMS:
AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
Printer (Customer provided) and RS PRT-15S CA/RS PRT-15S CA-C/RS NORM-4S CA
Front Desk Terminal
PMS
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)

To provide the external announcement machine:
COT card
DK card or MP card (built-in DK)
Announcement Machine (Customer provided)

To provide the internal digital announcement source:
DAT card or MP card (built-in DAT)

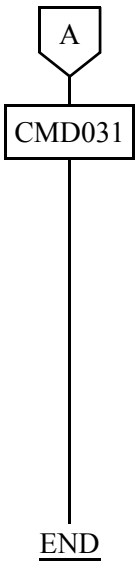
CHECK IN/CHECK OUT

PROGRAMMING

- When using PN-AP00-B with AP00 program

To provide Check In/Check Out from a Front Desk Terminal or PMS with AP00 on RS-232C:

START	DESCRIPTION	DATA
CMD000	Provide the print out function of Check In time when the Check In is set from Front Desk Terminal.	(1) 11 (2) 1: Available
CMD015	Assign the Service Class number to guest stations.	(1) X-XXXX: Guest Room station No. (2) 00◀-15: Service Class No.
CMD016	Allow Room Status operation set from Front Desk Terminal.	(1) XX 06 XX: 00-15: Service Class No. assigned by CMD015 (2) 1: Yes
CMD000	Send Check Out Complete message to PMS when PBX receives Check Out message from PMS.	(1) 87 (2) 1: To send
	Send the message to PMS if a checked out station is originating a C.O. call.	(1) 88 (2) 1: To send
CMD001	Assign a Room Status Code set by Check In operation.	(1) 12 (2) 1-8: Room Status Code
	Assign a Room Status Code set by Check Out operation.	(1) 13 (2) 1-8: Room Status Code
A		



DESCRIPTION	DATA
Assign the required functions to the Room Status codes set by Check In and Check Out operations.	(1) X00: Room Cutoff is set X01: Room Cutoff is canceled X02: Do Not Disturb is set X03: Do Not Disturb is canceled X04: Wake Up call is canceled X05: Message Waiting Lamp is turned off X06: Check In time is set X07: Check In time is cleared (X: Room Status Code) (2) 0◀: No 1 : Yes

- When using PN-AP00-B/PN-AP00-D with MRCA program
  [Series 3900 software required]

To provide Check In/Check Out from a Front Desk Terminal:

START	DESCRIPTION	DATA
CM08	Specify whether the printing of each hotel feature record with the printer using the PN-AP00-B/PN-AP00-D card (with MRCA program) is available or not. **[Series 3600 software required]**	(1) 835 (2) 0 : Available 1◀: Not available
CM13	Specify the kind of station.	• Y=51 (1) X-XXXXXX: Station No. (2) 0 : Administrative Station 1◀: Guest Station
CM12	Assign Service Restriction Class A to required guest station.	• Y=02 (1) X-XXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Room Status Code setting (Room Cut-off/Do Not Disturb/Message Waiting/Wake Up Call/Trunk Restriction class change) in Service Restriction Class A assigned by CM12 Y=02.	• Y=222 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1: Allow
CM12	Assign the Charging Station Service Class number to each station.	• Y=45 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Class No.
CMDD04	Execute the operation set by CMDD31 is executed simultaneously when Room Status Code is set/changed.	(1) XX 18 XX: Service Class No. assigned by CM12 Y=45 (2) 1: To execute
A		

A

	DESCRIPTION	DATA
CMDD01	Assign Room Status Code set by Check In operation.	(1) 12 (2) 0◀: Not used 1-8 : Room Status Code 1-8
	Assign Room Status Code set by Check Out operation.	(1) 13 (2) 0◀: Not used 1-8 : Room Status Code 1-8
	Specify call charge printout method when Room Status Code matches the Room Status Code for Check Out set by DD01>13.	(1) 15 (2) 0◀: Not available 1 : Interim Printout per station 2 : Audit Printout per station
CMDD31	Assign the each function to the Room Status Code assigned by CMDD01>12 and 13.	(1) X 00: Room Cutoff is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Set 2 : Reset
		(1) X 01: Do Not Disturb is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Set 2 : Reset
		(1) X 02: Automatic Wake Up is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Reset
		(1) X 03: Message Waiting is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Set 2 : Reset

B

B

CMDD31

DESCRIPTION	DATA
	(1) X 04: Check In time delete X : 1-8: Room Status Code (2) 0◀: Not deleted 1 : To delete
	(1) X 05: Maid Identification number set/ change X : 1-8: Room Status Code (2) 0◀: Not available 1 : Available
	(1) X 06: Hotel/Motel Toll Restriction Change-Guest Station X : 1-8: Room Status Code (2) 0◀: Not available 1 : Unrestricted (RCA) 2 : Non-Restricted 1 (RCB) 3 : Non-Restricted 2 (RCC) 4 : Semi-Restricted 1 (RCD) 5 : Semi-Restricted 2 (RCE) 6 : Restricted 1 (RCF) 7 : Restricted 2 (RCG) 8 : Fully-Restricted (RCH) 9 : Restriction reset (As per CM12 Y=01)
	(1) X 07: Check Out lamp control on DSS Console X : 1-8: Room Status Code (2) 0◀: Not controlled 1 : Lamp OFF 2 : Flash (slowly) 3 : Flash (120IPM) 4 : Lamp ON

END

To provide Check In/Check Out from DSS Console:

START	DESCRIPTION	DATA
CM04	Specify PN-AP00-B/PN-AP00-D with MRCA program as the destination to send an MP call information. **[Series 3300 software required]**	• Y=01 (1) 03 (2) 2: PN-AP00-B/PN-AP00-D with MRCA program
END		

To provide printing of Check In/Check In cancel, Check Out/Check Out cancel, refer to the programming in "PROPERTY MANAGEMENT SYSTEM INTERFACE". ☞ *Page 828*
[Series 3600 software required]

HARDWARE REQUIRED

AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
Front Desk Terminal, DSS Console or PMS
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)

DIRECT DATA ENTRY

PROGRAMMING

START	DESCRIPTION	DATA
CMD015	Assign the Service Class number to guest room station, if Hotel Printer and PMS with AP00 on RS-232C are provided.	(1) X-XXXX: Guest station No. (2) 00◀-15: Service Class No.
CMD016	Allow Direct Data Entry feature to the Service Class assigned by CMD015.	(1) XX 24 XX: 00-15: Service Class No. assigned by CMD015 (2) 1: Available
CM20	Assign the access code for Direct Data Entry.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A097
CM90	Provide the guest room station with the function key for Direct Data Entry, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0097: Direct Data Entry
A		

A

CMD001

DESCRIPTION	DATA
Designate the output unit for Direct Data Entry, if Hotel Printer and PMS with AP00 on RS-232C are provided.	(1) 252 (2) 0◀: PMS 1 : Hotel Printer 2 : PMS and Hotel Printer
Designate the printout format of Direct Data Entry, if Hotel Printer and PMS with AP00 on RS-232C are provided.	(1) 253 (2) 0◀: Printout Format 1 1 : Printout Format 2 (See the examples below) Printout format 1 (2nd data: 0) **2002 11/01 17:20 FRI** **NO. 220** **CODE 1 1** **CODE 2 2** **CODE 3 2** **CODE 4 1** Printout format 2 (2nd data: 1) **2002 11/01 17:20 FRI** **NO. 220** **CODE 1** **QUANTITY 2** **CODE 2** **QUANTITY 1**

END

HARDWARE REQUIRED

AP00-B card with AP00 program (for PMS with AP00 on RS-232C)
Printer (Customer provided) and RS PRT-15S CA/RS PRT-15S CA-C/RS NORM-4S CA
PMS
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)

DO NOT DISTURB-HOTEL/MOTEL

PROGRAMMING

To provide Do Not Disturb from a guest station or administrative station, or Front Desk Terminal, or PMS:

NOTE: *PMS with AP00 on RS-232C is not available when using PN-AP00-B/PN-AP00-D with MRCA program.*

START	DESCRIPTION	DATA
CM08	Specify whether the printing of each hotel feature record with the printer using the PN-AP00-B/PN-AP00-D card (with MRCA program) is available or not. **[Series 3600 software required]**	(1) 835 (2) 0 : Available 1◀: Not available
CM12	Assign Service Restriction Class A to required stations.	• Y=02 (1) X-XXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Do Not Disturb in Service Restriction Class A assigned by CM12 Y=02.	• Y=19 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Do Not Disturb Set/Cancel.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A022: Set A023: Cancel
CM51	Assign the destination of a call transferred when the called station is in Do Not Disturb.	• Y=10 (1) 00-63: Tenant No. (2) X-XXXXXX: Station No. or E000: Attendant Console
CM90	Assign the Call Forwarding-Intercept (ICPT) key, if DESKCON is assigned as destination by CM51 Y=10.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6065: Call Forwarding-Intercept
	Assign the DND function key to the D^{term}, if required.	• Y=00 (1) My Line No. + [,] + Key No. (2) F0022: Do Not Disturb set/reset
A		

A

	DESCRIPTION	DATA
CM90	Assign the DND function keys to the Front Desk Terminal, if provided.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1064: Do Not Disturb F1074: Set F1075: Reset F1077: Release F1080: Do Not Disturb Override
	Assign the DND function keys to the Hotel Console, if provided.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6102: Do Not Disturb F6103: Do Not Disturb Override F6104: Reset
CM08	Specify the sending Do Not Disturb message to Hotel Printer and PMS when setting Do Not Disturb from guest station.	(1) 201 (2) 0: Available
	Specify Call Forwarding-Busy Line/Station Hunting for a station set to Do Not Disturb.	(1) 240 (2) 0 : Available 1◀: Not available
	For a system with multiple-tenant, specify the destination of a call transferred in CM51, Y=10 for the tenant of calling or called station.	(1) 241 (2) 0 : Tenant of called station 1◀: Tenant of calling station
	Specify whether Do Not Disturb record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Do Not Disturb.	(1) 267 (2) 0 : Available 1◀: Not available
CM48	Select the Dial Tone on setting Do Not Disturb.	• Y=2 (1) 14: Dial Tone on setting Do Not Disturb (2) 0 : Special Tone 1◀: Dial Tone

B

B

	DESCRIPTION	DATA
CMD000	Send Controlled Restriction message to PMS when setting Do Not Disturb, if PMS with AP00 on RS-232C is provided.	(1) 114 (2) 1: To send
	Specify whether the printing of Do Not Disturb for individual station set/cancel from Front Desk Terminal is available or not. **NOTE:** *This data is effective when Do Not Disturb is set/canceled to individual station from Front Desk Terminal.*	(1) 152 (2) 0◀: Available 1 : Not available
CMD015	Assign the Service Class number for CMD016 to required stations, if PMS with AP00 on RS-232C is provided.	(1) X-XXXX: Station No. (2) 0◀-15: Service Class No.
CMD016	Send Room Status Code which includes Do Not Disturb record, to PMS, if PMS with AP00 on RS-232C is provided.	(1) XX 05: Room Status Code sending to PMS XX : Service Class No. assigned by CMD015. (2) 1: To send

END

To set the Do Not Disturb feature to the stations of SLT/sub line of D^{term}/Virtual line stations that are accommodated to the D^{term} multiline as the sub line, and to display the Do Not Disturb Set/Reset status of the stations on the lamp of D^{term}:

[Series 3500 software required]

NOTE: *To make available this feature, do the programming both of the setting side (D^{term}) and the set side (stations of SLT, sub line of D^{term} or virtual line stations).*

- For Setting Side (D^{term})

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to the required stations.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Allow Do Not Disturb Setting in Service Restriction Class C assigned by CM12 Y=07.	• Y=188 (1) 00-15: Service Restriction Class C assigned by CM12 YY=07 (2) 0 : Allow 1◀: Restricted
CM12	To indicate the Do Not Disturb Set/Reset status on the Line/Trunk/Feature keys of D^{term}, assign the Do Not Disturb Lamp Indication to the station number of D^{term}s.	• Y=62 (1) X-XXXXXXXX: Station No. (2) 0 : Not indicated 1 : Not used 2 : Do Not Disturb Lamp Indication 3◀: Message Waiting Lamp Indication
END		

- For Set Side (stations of SLT, sub line of D^{term} or virtual line stations)

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	• Y=02 (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Do Not Disturb in Service Restriction Class A assigned by CM12 Y=02.	• Y=19 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Restricted 1◀: Allow
CM12	Assign Service Restriction Class C to the required stations.	• Y=07 (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) 00-15◀: Service Restriction Class C
CM15	Allow Do Not Disturb to be set in Service Restriction Class C assigned by CM12 Y=07.	• Y=189 (1) 00-15: Service Restriction Class C assigned by CM12 YY=07 (2) 0 : Allow 1◀: Restricted
CM65	Provide Do Not Disturb feature to each tenant.	• Y=19 (1) 00-63: Tenant No. (2) 0 : Not provided 1◀: To provide
CM12	Specify the Do Not Disturb Lamp Indication on Line/Trunk/Feature keys of D^{term}.	• Y=62 (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) 0 : Not indicated 1 : Not used 2 : Do Not Disturb Lamp Indication 3◀: Message Waiting Lamp Indication
END		

HARDWARE REQUIRED

To provide Front Desk Terminal or PMS:
AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
Front Desk Terminal or
PMS
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)

DO NOT DISTURB-SYSTEM

PROGRAMMING

To provide Do Not Disturb-System from a Front Desk Terminal:

START	DESCRIPTION	DATA
CM13	Assign Do Not Disturb-System to required stations. Do Not Disturb is set to the stations assigned by this command simultaneously from the Front Desk Terminal or Attendant Console.	• Y=00 (1) X-XXXXXX: Station No. (2) 0: To provide
CM51	Assign the destination of a call transferred when the called station is in Do Not Disturb mode.	• Y=10 (1) 00-63: Tenant No. (2) X-XXXXXX: Station No. or E000: Attendant Console
CM90	Assign the Call Forwarding-Intercept (ICPT) key, if the DESKCON is assigned as destination by CM51 Y=10.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6065: Call Forwarding-Intercept
	Assign the DND function keys to the Front Desk Terminal, if provided.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1064: Do Not Disturb F1072: Group F1074: Set F1075: Reset F1077: Release F1080: Do Not Disturb Override
	Assign the DND function keys to the Hotel Console, if provided.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6102: Do Not Disturb F6103: Do Not Disturb Override F6104: Reset
A		

	DESCRIPTION	DATA
A		
CM08	Specify Call Forwarding-Busy Line/Station Hunting for a station set to Do Not Disturb-System.	(1) 240 (2) 0 : Available 1◀: Not available
	For a system with multiple tenant, specify the destination of a call transferred in CM51 Y=10 for the tenant of calling or called station.	(1) 241 (2) 0 : Tenant of called station 1◀: Tenant of calling station
	Specify whether Do Not Disturb record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Do Not Disturb.	(1) 267 (2) 0 : Available 1◀: Not available
CM48	Select the Dial Tone on setting Do Not Disturb.	• Y=2 (1) 14: Dial Tone on setting Do Not Disturb (2) 0 : Special Tone 1◀: Dial Tone
END		

To provide Do Not Disturb group set/cancel at specified timing in advance:

START	DESCRIPTION	DATA
CM13	Assign the group of stations in Do Not Disturb.	• Y=00 (1) X-XXXX: Station No. (2) 0: To provide
CMDD00	Provide Do Not Disturb group set/cancel.	(1) 20: Do Not Disturb Group Set/Cancel (2) 1: To provide
CMDD20	To set the timing of Do Not Disturb group set/ cancel for a specific day, specify week data (CMDD21) or Time Table Number (CMDD22).	(1) XXYY XX: 01-12: Month YY: 01-31: Date (2) 0◀: As for week data of CMDD21 1 : As for Time Table No. 1 of CMDD22 2 : As for Time Table No. 2 of CMDD22 3 : As for Time Table No. 3 of CMDD22
CMDD21	To set the timing of Do Not Disturb group set/ cancel for each day of the week, specify Time Table number set by CMDD22.	(1) 1: Sunday 2: Monday 3: Tuesday 4: Wednesday 5: Thursday 6: Friday 7: Saturday (2) 0-3: Time Table No. 0-3 of CMDD22 Initial data of CMDD21>1-7 is as follows.
A		

1ST DATA	MEANING	2ND DATA	MEANING
1	Sunday	1	Time Table No. 1
2	Monday	0	Time Table No. 0
3	Tuesday	0	Time Table No. 0
4	Wednesday	0	Time Table No. 0
5	Thursday	0	Time Table No. 0
6	Friday	0	Time Table No. 0
7	Saturday	1	Time Table No. 1

	DESCRIPTION	DATA
A		
CMDD22	Provide the Time Table for Do Not Disturb group set/cancel.	(1) X YY ZZ X : 0-3: Time Table No. 0-3 YY: 00-23: Hour ZZ : 00-55: Minute (5 minute increments) (2) 0◀: Do Not Disturb Group Cancel 1 : Do Not Disturb Group Set
CM90	Assign a Do Not Disturb function key to the D^{term}, if required.	• Y=00 (1) My Line No. + , + Key No. (2) F0022: Do Not Disturb Set/Reset
CM97	Assign a Do Not Disturb function key on each DSS Console, if needed.	(1) DSS Console No. (00-31) + , + DSS Key No. (57-59) (2) F1053: Do Not Disturb Set/Reset
END		

HARDWARE REQUIRED

To provide Do Not Disturb group set/cancel at specified timing in advance:
AP00-B/AP00-D card with MRCA program (for PMS with AP00 on RS-232C)

HOTEL/MOTEL ATTENDANT CONSOLE

PROGRAMMING

In addition to programming the DESKCON as described in CHAPTER 1, assign the Hotel function keys to the Console.
For DESKCON, refer to SN716 DESKCON. ☞ Page 47
For Multi-function key, refer to MULTI-FUNCTION KEY. ☞ Page 73

START	DESCRIPTION	DATA
CM90	Assign the required hotel function keys.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6100: Room Cutoff F6101: Message Waiting F6102: Do Not Disturb F6103: Automatic Wake Up/Do Not Disturb Override F6104: Reset F6108: Do Not Disturb Override F6109: Wake Up
END		

For printing the set/cancel/execution record of hotel features such as Automatic Wake Up/Do Not Disturb/ Room Cutoff/Message Waiting from the Console, refer to the programming in "PROPERTY MANAGEMENT SYSTEM INTERFACE". ☞ Page 828.
[Series 3600 software required]

HOTEL/MOTEL DID NUMBER ALLOCATION TO GUEST STATION

[Series 3400 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the DID Development Table for guest station. **NOTE:** *Set the second data the same as the DID Development Table number assigned by CM35 Y=170.*	(1) 824 (2) 0 : Development Table 1 for DID No. assigned by CM76 Y=90 1◀: Development Table 0 for DID No. assigned by CM76 Y=00
CM76	Assign the Number Conversion Block number for Development Table 0.	• Y=00 (1) X-XXXX: DID No. (2) 000-999: Number Conversion Block No.
	Assign the Number Conversion Block number for Development Table 1.	• Y=90 (1) X-XXXXXXXX: DID No. (2) 000-999: Number Conversion Block No.
	Allow Hotel/Motel DID number allocation to guest station.	• Y=32 (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0: Available
	Assign the data for interpreting the digits received. **NOTE:** *This programming is effective when the destination station number from PMS is not set.*	• Y=01 Day Mode • Y=02 Night Mode • Y=03 Mode A • Y=04 Mode B (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) X-XXXXXXXX: DID station No. D04: Direct-In Termination
END		

HARDWARE REQUIRED

PMS
AP00-B/AP00-D card with MRCA program (for MP built-in PMS on IP)

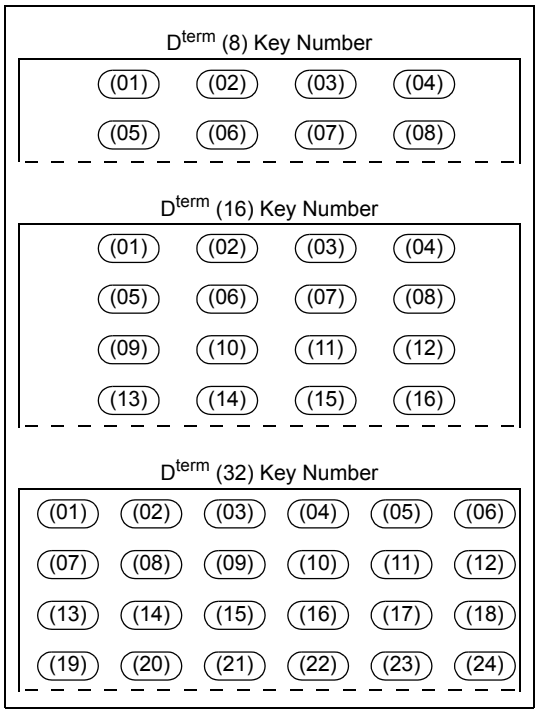
HOTEL/MOTEL FRONT DESK INSTRUMENT

PROGRAMMING

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2000-2099 (1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW : 00 (Sun) : 01 (Mon) : 02 (Tue) : 03 (Wed) : 04 (Thu) : 05 (Fri) : 06 (Sat) (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM : 00-59 (Minute) SS : 00-59 (Second)
CM04	Specify the control method of the Front Desk Terminal.	• Y=01 (1) 10: Control method for the Front Desk Terminal (2) 2 : PN-AP00-B/PN-AP00-D card with MRCA program 3◀: PN-AP00-B card with AP00 program
CM10	Assign a My Line number for Front Desk Terminal. **NOTE:** *The number of Front Desk Terminals is limited to 8 units per system.*	(1) 000-763: LEN (2) FX-FXXXXXX: My Line No.
CM14	Assign a My Line number for Front Desk Terminal. **[Series 3200 R6.2 software required]** **NOTE:** *The number of Front Desk Terminals is limited to 8 units per system.*	(1) XX ZZZ: LEN XX : 00-59: FP No. ZZZ: 000-127: Port No. (2) FX-FXXXXXX: My Line No.
A		

A

	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Front Desk Terminal to required D^{term}.	• Y=02 (1) X-XXXXXX: My Line No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Front Desk Terminal in Service Restriction Class B assigned by CM12 Y=02.	• Y=62 (1) 00-15◀: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CM90	Assign the Hotel function keys on the Front Desk Terminal.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1064: Do Not Disturb F1065: Room Cutoff F1066: Message Waiting F1067: Automatic Wake Up F1068: Check In F1069: Room Status F1071: Print Out F1072: Group F1074: Set F1075: Reset F1076: Cancel F1077: Release F1080: Do Not Disturb Override



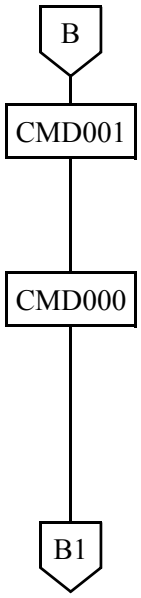
B

When using AP00-B card with AP00 program

C

When using AP00-B/AP00-D card with MRCA program

- When using AP00-B card with AP00 program



DESCRIPTION	DATA
Specify the symbol of the currency printed out, if Hotel Printer is provided.	(1) 256 (2) 0◀: $ 1 : Not printed (△ will be printed) 2 : FF (France Franc)
Designate the language of message printed out, if Hotel Printer is provided.	(1) 2: Language of message printed out (2) 1◀: Other than Japanese
Specify the Printer Line Feed Code, if Hotel Printer is provided.	(1) 103 (2) 0◀: CR 1 : CR and LF

B1

CMD001

DESCRIPTION	DATA
Assign the attribute data, depending on the port (Port 1/3) connected to the printer, if Hotel Printer is provided.	(1) See the following table. (2) See the following table.

AP00 INITIAL

1ST DATA (1)				MEANING	2ND DATA (2)	MEANING
PORT 0	PORT 1	PORT 2	PORT 3			
	24		32	Data speed	2/3/4	1200/2400/4800 bps
	25		33	Stop bit length	2	2 bits
	26		34	Data length	0	7 bits
	27		35	Parity	1	Even Parity
	100		140	Function	16/17	Hotel Printer 0/ Hotel Printer 1
	101		141	Priority for data processing	1	2nd
	102		142	Number of characters per line to be printed out	2	80 characters
	103		143	Number of lines per page	0-88	0 : No page 1 : ┐ ≀ No. of lines including space within a page (Depends on size of printer paper used) 88: ┘
	104		144	Number of lines per page to be printed out	0-88	0 : No page 1 : ┐ ≀ No. of lines to be printed out within a page 88: ┘

B2

B2

CMD035

END

DESCRIPTION	DATA
Assign the Hotel Printer to each Front Desk Terminal, if Hotel Printer is provided.	(1) X-XXXX: My Line No. of Front Desk Terminal (2) 0◀: Hotel Printer 0 1 : Hotel Printer 1
By system reset (press SW1 on the MP card), station number information is transferred from the MP to the AP. When the transfer is completed, message “SORT COMPLETE” is printed out on the Hotel printer. “SORT COMPLETE” printout takes about 4 minutes.	

- When using AP00-B/AP00-D card with MRCA program

C

	DESCRIPTION	DATA
CMDD01	Set interface condition for PN-AP00-B/ PN-AP00-D with MRCA program RS port. AP00 INITIAL	(1) 101 (Port 1) 103 (Port 3) (2) 00◀: Not used 12 : External Printer

NOTE: *When setting the second data to 12, the initial data of CMDD10>X00, X01, X02, X03, X04, X05 is set automatically.*

CMDD10	To change the interface condition of each port set by CMDD01. AP00 INITIAL	(1) X00: Equipment Type Connected to Port 1, 3 X : 1, 3: Port 1, 3 (2) 6◀: External Printer 0
		(1) X01: Data Speed for Port 1, 3 X : 1, 3: Port 1, 3 (2) 1 : 300 bps 2◀: 1200 bps 3 : 2400 bps 4 : 4800 bps 5 : 9600 bps
		(1) X02: Stop Bit Length for Port 1, 3 X : 1, 3: Port 1, 3 (2) 0 : 1 bit 1 : 1.5 bits 2◀: 2 bits
		(1) X03: Data Length for Port 1, 3 X : 1, 3: Port 1, 3 (2) 0 : 7 bits 1◀: 8 bits
		(1) X04: Parity for Port 1, 3 X : 1, 3: Port 1, 3 (2) 0◀: No Parity 1 : Even Parity 2 : Odd Parity
		(1) X05: Printer Digit Number for Port 1, 3 X : 1, 3: Port 1, 3 (2) 0◀: 80 digits 1 : 20 digits

END

For printing the set/cancel/execution record of hotel features such as Automatic Wake Up/Do Not Disturb/ Room Cutoff/Message Waiting from Front Desk Terminals, refer to the programming in "PROPERTY MANAGEMENT SYSTEM INTERFACE" ☞ *Page 828*
[Series 3600 software required]

HARDWARE REQUIRED

AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
Front Desk Terminal
Printer and RS PRT-15S CA/RS PRT-15S CA-C/RS NORM-4S CA

HOTEL/MOTEL TOLL RESTRICTION CHANGE-GUEST STATION

[Series 3900 software required]

PROGRAMMING

START	DESCRIPTION	DATA
CM13	Specify the kind of station.	• Y=51 (1) X-XXXXXX: Station No. (2) 0 : Administrative Station 1◀: Guest Station
CM12	Assign Service Restriction Class A to required guest station.	• Y=02 (1) X-XXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Room Status Code setting (Room Cut-off, Trunk Restriction class change).	• Y=222 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1: Allow
CM12	Assign the Charging Station Service Class number to each station.	• Y=45 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Class No.
CMDD04	Execute the operation set by CMDD31 is executed simultaneously when Room Status Code is set/changed.	(1) XX 18 XX: Service Class No. assigned by CM12 Y=45 (2) 1: To execute
CMDD01	Assign Room Status Code set by Check In operation.	(1) 12 (2) 0◀: Not used 1-8 : Room Status Code 1-8
	Assign Room Status Code set by Check Out operation.	(1) 13 (2) 0◀: Not used 1-8 : Room Status Code 1-8
A		

A

	DESCRIPTION	DATA
CMDD31	Assign the each function to the Room Status Code assigned by CMDD01>12 and 13.	(1) X 00: Room Cutoff is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Set 2 : Reset (1) X 06: Hotel/Motel Toll Restriction Change-Guest Station X : 1-8: Room Status Code (2) 0◀: Not available 1 : Unrestricted (RCA) 2 : Non-Restricted 1 (RCB) 3 : Non-Restricted 2 (RCC) 4 : Semi-Restricted 1 (RCD) 5 : Semi-Restricted 2 (RCE) 6 : Restricted 1 (RCF) 7 : Restricted 2 (RCG) 8 : Fully-Restricted (RCH) 9 : Restriction reset (As per CM12 Y=01) (1) X 07: Check Out lamp control on DSS Console X : 1-8: Room Status Code (2) 0◀: Not controlled 1 : Lamp OFF 2 : Flash (slowly) 3 : Flash (120IPM) 4 : Lamp ON

END

HARDWARE REQUIRED

AP00-B/AP00-D card with MRCA program
Front Desk Terminal

HOUSE PHONE

PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign the House Phone Group number to required stations. **NOTE:** *There is no limit to the number of House Phones permitted in the system as long as the maximum number of ports is not exceeded.*	• Y=03 (1) X-XXXX: Station No. (2) 00-03: House Phone Group 0-3
CM51	Assign the destination of each House Phone Group.	• Y=14 (1) 00-03: House Phone Group 0-3 (2) X-XXXX: Station No. of the destination E000 : Attendant Console
CM08	Specify the result of Switch Hook Flash on stations within a House Phone Group. To allow stations within a House Phone Group to transfer a call or access a feature, set the data to "0".	(1) 055: For House Phone Group 0, 1 056: For House Phone Group 2, 3 (2) 0 : Special Dial Tone 1◀: Attendant Recall
END		

MAID STATUS

PROGRAMMING

- When using PN-AP00-B with AP00 program

In addition to the programming of "HOTEL/MOTEL FRONT DESK INSTRUMENT" ☞ *Page 800* or "PROPERTY MANAGEMENT SYSTEM INTERFACE" ☞ *Page 821*, do the following programming:

START	DESCRIPTION	DATA
CM08	If maid ID Code is used, set the data for 281 to 0.	(1) 281 (2) 0 : Available 1◀: Not available
CM20	Assign the access code for Maid Status.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A029
CM90	Assign the Room Status key to the Front Desk Terminal.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1069: Room Status
CMD000	Send Maid Status message to PMS with AP00 on RS-232C when setting Maid Status by guest room telephones or Front Desk Terminal.	(1) 119 (2) 0◀: To send
CMD015	Assign the Service Class number to required stations, if PMS with AP00 on RS-232C is provided.	(1) X-XXXX: Station No. (2) 0◀-15: Service Class No.
CMD016	Send Room Status Code which includes Maid Status record, to PMS, if PMS with AP00 on RS-232C is provided.	(1) XX 05: Room Status Code sending to PMS XX : Service Class No. assigned by CMD015. (2) 1: To send
	Allow Room Status operation set from Front Desk Terminal to guest stations, if PMS with AP00 on RS-232C is provided.	(1) XX 06 XX: Service Class No. assigned by CMD015 (2) 1: Yes
A		

A

CMD031

DESCRIPTION

Define the functions of each Room Status Code.
For example, to provide the following Room Status Code, set the functions to each Room Status Code according to the table below.

Room Status Code		Room Status
1	:	Check In (**NOTE**)
2	:	Check Out (**NOTE**)
3	:	Under Cleaning
4	:	Cleaning Finished
5	:	Check Finished
6	:	Out of Service
7	:	–
8	:	–

NOTE: *The Room Status Code for Check In and Check Out are to be assigned by CMD001>12 and CMD001>13.*

ROOM STATUS CODE	FUNCTION No.										
	00	01	02	03	04	05	06	07	08	30	31
1		1		1	1	1	1				
2	1			1	1			1			
3	1		1					1			1
4	1		1			1		1			1
5		1		1		1		1			1
6	1				1	1		1			1
7											
8											

DATA

(1) X YY
X : 1-8: Room Status Code
YY: Functions
00: Room Cutoff Set
01: Room Cutoff Reset
02: Do Not Disturb Set
03: Do Not Disturb Reset
04: Wake Up Call Reset
05: Message Waiting Reset
06: Check In Time Registration
07: Check In Time Clear
08: Restriction for Toll Call and International Call set
30: Send Room Status to PMS
31: Dialing from Guest Room is allowed

(2) 0◀: No
1 : Yes

END

- When using PN-AP00-B/PN-AP00-D with MRCA program
  [Series 3900 software required]

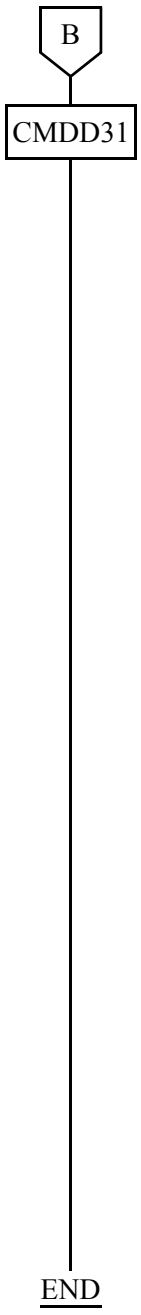
In addition to the programming of "HOTEL/MOTEL FRONT DESK INSTRUMENT" ☞ *Page 800*, do the following programming:

START	DESCRIPTION	DATA
CM08	If maid ID Code is used, set the data for 281 to 0.	(1) 281 (2) 0 : Available 1◀: Not available
CM20	Assign the access code for Maid Status.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A029
CM90	Assign the Room Status key to the Front Desk Terminal.	• Y=00 (1) My Line No. + [,] + Key No. (2) F1069: Room Status
CM12	Assign Service Restriction Class A to required guest station.	• Y=02 (1) X-XXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Room Status Code setting (Room Cut-off, Trunk Restriction class change).	• Y=222 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1: Allow
CM12	Assign the Charging Station Service Class number to each station.	• Y=45 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Class No.
CMDD04	Execute the operation set by CMDD31 is executed simultaneously when Room Status Code is set/changed.	(1) XX 18 XX: Service Class No. assigned by CM12 Y=45 (2) 1: To execute
A		

A

	DESCRIPTION	DATA
CMDD01	Assign Room Status Code set by Check In operation.	(1) 12 (2) 0◀: Not used 1-8 : Room Status Code 1-8
	Assign Room Status Code set by Check Out operation.	(1) 13 (2) 0◀: Not used 1-8 : Room Status Code 1-8
	Assign Room Status Code when pressing Call Recording Function Button.	(1) 14 (2) 0◀: Not used 1-8 : Room Status Code 1-8
	Specify Call charge printout method when Room Status Code matches the Room Status Code for Check Out set by DD01>13.	(1) 15 (2) 0◀: Not available 1 : Interim Printout per station 2 : Audit Printout per station
CMDD31	Assign the each function to the Room Status Code assigned by CMDD01>12 and 13.	(1) X 00: Room Cutoff is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Set 2 : Reset
		(1) X 01: Do Not Disturb is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Set 2 : Reset
		(1) X 02: Automatic Wake Up is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Reset
		(1) X 03: Message Waiting is set X : 1-8: Room Status Code (2) 0◀: Not available 1 : Set 2 : Reset

B



DESCRIPTION	DATA
	(1) X 04: Check In time delete X : 1-8: Room Status Code (2) 0◀: Not deleted 1 : To delete
	(1) X 05: Maid Identification number set/ change X : 1-8: Room Status Code (2) 0◀: Not available 1 : Available
	(1) X 06: Hotel/Motel Toll Restriction Change-Guest Station X : 1-8: Room Status Code (2) 0◀: Not available 1 : Unrestricted (RCA) 2 : Non-Restricted 1 (RCB) 3 : Non-Restricted 2 (RCC) 4 : Semi-Restricted 1 (RCD) 5 : Semi-Restricted 2 (RCE) 6 : Restricted 1 (RCF) 7 : Restricted 2 (RCG) 8 : Fully-Restricted (RCH) 9 : Restriction reset (As per CM12 Y=01)
	(1) X 07: Check Out lamp control on DSS Console X : 1-8: Room Status Code (2) 0◀: Not controlled 1 : Lamp OFF 2 : Flash (slowly) 3 : Flash (120IPM) 4 : Lamp ON

HARDWARE REQUIRED

AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
Front Desk Terminal or
PMS
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)

MESSAGE REGISTRATION

PROGRAMMING

The SMDR is used to provide Message Registration information to a call accounting system.
Refer to STATION MESSAGE DETAIL RECORDING (SMDR) ☞ *Page 615*

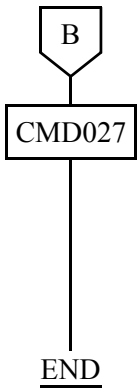
To provide Message Registration on PMS:

START	DESCRIPTION	DATA
CM04	Specify PN-AP00-B/PN-AP00-D with MRCA program as the destination to send an MP call information, if PMS with AP00 on RS-232C (PN-AP00-B/PN-AP00-D with MRCA program) is provided.	• Y=01 (1) 03: Destination to send an MP call information (2) 2: PN-AP00-B/PN-AP00-D with MRCA program
	Specify PN-AP00-B with AP00 program as the destination to send an MP call information, if PMS with AP00 on RS-232C (PN-AP00-B with AP00 program) is provided.	• Y=01 (1) 03: Destination to send an MP call information (2) 7◀: PN-AP00-B with AP00 program
	Specify PMS via LAN port as the destination to send a Built-in SMDR call information, if PMS on IP is provided.	• Y=01 (1) 05: Destination to send a Built-in SMDR call information (2) 1: PMS via LAN port
CM08	Assign the Pseudo-Answer signal function when the answer signal (Battery Reversal) has not been detected within the time assigned by CM41 Y=0>03 after making an outgoing trunk call. **NOTE:** *This data is effective when CM35 Y=04 is set to "1".*	(1) 123 (2) 0 : Not sent 1◀: To send
CM13	Provide SMDR service for outgoing calls to required stations.	• Y=06 (1) X-XXXXXX: Station No. (2) 1◀: To provide
A		

A

	DESCRIPTION	DATA
CM35	Specify the type of answer signal from distant office in outgoing connection for each trunk route.	• Y=04 (1) 00-63: Trunk Route No. (2) 1 : Battery Reversal from C.O. line 2 : Answer signal arrives from Tie Line/ ISDN 7◀: Answer signal does not arrive
	Provide SMDR service for outgoing calls to required trunk routes.	• Y=14 (1) 00-63: Trunk Route No. (2) 1◀: To provide
	Assign a trunk access code for SMDR.	• Y=44 (1) 00-63: Trunk Route No. (2) 00-99: Trunk Access Code
CM41	Specify the timing of SMDR valid call timer (pseudo-answer timer).	• Y=0 (1) 03 (2) 01-08: 4-40 seconds (4 second increments) If no data is set, the default setting is 20-24 seconds.
CMD000	Send message to PMS, if a checked out station is originating a C.O. call.	(1) 88 (2) 0◀: Not sent 1 : To send
CMD015	Assign the charging Service Class number to each station number, if PMS with AP00 on RS-232C is provided.	(1) X-XXXX: Station No. (2) 00◀-15: Service Class No.
CMD016	Send detail call information on outgoing calls to SMDR, if PMS with AP00 on RS-232C is provided.	(1) XX 16 XX: Service Class No. assigned by CMD015 (2) 1: To send
CMD026	Assign the Development Table number to outgoing trunk routes, if PMS with AP00 on RS-232C is provided.	(1) 00-63: Trunk Route No. (2) 000◀-511: Development Table No.

B



DESCRIPTION	DATA
Specify the charging method to each dialed number, if PMS with AP00 on RS-232C is provided.	(1) XXX Y XXX: 000-511: Call Development Table No. assigned by CMD026 Y : Dialed Digit 0-9, A (*), B (#) (2) 1 : No charge 9◀: Send to PMS

HARDWARE REQUIRED

AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)
Call Accounting System (customer provided) or PMS

MESSAGE WAITING

PROGRAMMING

To provide the Message Waiting from an administrative station, Front Desk Terminal, or PMS:

NOTE: *PMS with AP00 on RS-232C is not available when using PN-AP00-B/PN-AP00-D with MRCA program.*

START

CM08

DESCRIPTION

Specify whether the printing of each hotel feature record with the printer using the PN-AP00-B/PN-AP00-D card (with MRCA program) is available or not.
[Series 3600 software required]

DATA

(1) 835
(2) 0 : Available
1◀: Not available

CM12

DESCRIPTION

Assign Service Restriction Class A for Message Waiting to required guest or administrative station as shown below.

DATA

- Y=02

(1) X-XXXXXX: Station No.
(2) XX ZZ
XX: 00-15◀: Service Restriction Class A

CM15

DESCRIPTION

Allow Message Waiting in Service Restriction Class A assigned by CM12 Y=02.

GUEST/ADMINISTRATIVE	CM15 Y=24	CM15 Y=40
Guest station w/o MW Lamp	0	0
Guest station with MW Lamp	0	1
Administrative station	1	0

DATA

- Y=24 Administrative station allowing Message Waiting set/reset to guest room
- Y=40 Guest Station

(1) 00-15: Service Restriction Class A assigned by CM12 Y=02
(2) 0 : Restricted
1◀: Allow

CM13

DESCRIPTION

Provide each station with Message Waiting Service (D^{term} or Single Line Telephone with Message Waiting Lamp).

DATA

- Y=03

(1) X-XXXXXX: Station No.
(2) 0: To provide

DESCRIPTION

Specify guest station or administrative station to each station.

NOTE 1: *This data assignment is not required when Message Waiting is set by PMS.*

DATA

- Y=13

(1) X-XXXXXX: Station No.
(2) 0 : Administrative station
1◀: Guest station

A

A

	DESCRIPTION	DATA
CM20	Assign access code for Message Waiting Set/ Reset/Retrieve from administrative station, if required. **NOTE 2:** *This data assignment is not required when Message Waiting is set by PMS.*	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A040: MW Lamp Control-Set A041: MW Lamp Control-Reset A147: MW Retrieve
CM51	Assign the Message Front destination to be routed by dialing MW Retrieve code or pressing MW key on D^{term} to which Message Waiting is set.	• Y=15 (1) 00-63: Tenant No. to which MW set D^{term} belongs (2) X-XXXXXX: Station No./My Line No. or E000: Attendant Console
CM08	If an Attendant Console is assigned to as the Message Front destination by CM51 Y=15, set the data for 233 to 0 and set the data for 234 to 1. With this setting, Message Waiting is automatically reset when the Attendant answers.	(1) 233 (2) 0: Available (1) 234 (2) 1◀: Not available
	To reset Message Waiting while the Message Front station or attendant rings, set the data for 234 to 0.	(1) 234 (2) 0: Available
	To reset Message Waiting when the desired station answers a second call from the Message Front station or attendant, set the data for 235 to 0 and set the data for 234 to 1.	(1) 235 (2) 0: Available (1) 234 (2) 1◀: Not available
	Specify whether Message Waiting record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Message Waiting.	(1) 267 (2) 0 : Available 1◀: Not available

B

	DESCRIPTION	DATA
B		
CM90	Assign the Message Waiting function key to the D^{term} of administrative station or Front Desk Terminal or Attendant Console, if provided.	• Y=00 (1) My Line No. + [›] + Key No. (2) • For administrative station F0040: Message Waiting Set F0041: Message Waiting Reset • For guest station w/o MW Lamp F1005: Message Waiting Lamp (1) ATTCON No. (E000-E007) + [›] + Key No. (2) F6101: Message Waiting F6104: Reset
CMD000	Send Message Waiting message to PMS when setting Message Waiting, if PMS with AP00 on RS-232C is provided.	(1) 116 (2) 1: To send
	Specify whether the printing of Message Waiting set/cancel from Front Desk Terminal is available or not.	(1) 154 (2) 0◀: Available 1 : Not available
CMD015	Assign the Service Class number for CMD016 to required stations, if PMS with AP00 on RS-232C is provided.	(1) X-XXXX: Station No. (2) 00◀-15: Service Class No.
CMD016	Send Room Status Code which includes Message Waiting record, to PMS, if PMS with AP00 on RS-232C is provided.	(1) XX 05: Room Status Code sending to PMS XX : Service Class No. assigned by CMD015. (2) 1: To send
END		

HARDWARE REQUIRED

Single Line Telephone with Message Waiting Lamp
8LC or 4LCD/4LCF/4LCL/4LCW card

To provide Front Desk Terminal or PMS:
AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
Front Desk Terminal or
PMS
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)

PROPERTY MANAGEMENT SYSTEM INTERFACE

PROGRAMMING

The following shows the minimal programming to establish the PMS interface link. After this programming, the Status Inquiry (Feature Code “70”, Function Code “F” and “0”) is available.

To provide PMS with AP00 on RS-232C:

START

CMD001

DESCRIPTION

Assign the attribute data, depending on the port (Port 0-3) connected to PMS.

AP00 INITIAL

DATA

(1) See the following table.
(2) See the following table.

◀: **Initial Data**

1ST DATA				MEANING	2ND DATA	MEANING
PORT 0	PORT 1	PORT 2	PORT 3			
20	24	28	32	Data speed	2/3/4/5 NOTE 1	1200/2400/4800/9600 bps
21	25	29	33	Stop bit length	0◀/1/2	1/1.5/2 bits
22	26	30	34	Data length	0◀/1	7/8 bits
23	27	31	35	Parity	0◀/1/2	None Parity/ Even Parity/Odd Parity
80	100	120	140	Function	4 NOTE 2	PMS
81	101	121	141	Priority for data processing	0◀	1st Priority
82	102	122	142	Message Format	6	PMS Format
83	103	123	143	Number of lines per page	0◀	Not used
84	104	124	144	Protocol	6	IMS Procedure
85	105	125	145	Station Address (SA)	49	1
86	106	126	146	Unit Address (UA)	33	!
87	107	127	147	Timer for detecting the terminal/no answer	8	1 second
89	109	129	149	Timer for detecting the end of block	70	35 seconds
90	110	130	150	Timer for detecting non data communication	70	35 seconds
91	111	131	151	Number of times to resend the Selecting Sequence when NAK is returned in Phase 2	3	3 times
92	112	132	152	Number of times to resend the Selecting Sequence when no answer in Phase 2	15	15 times
93	113	133	153	Number of times to resend the Selecting Sequence when NAK is returned in Phase 3	3	3 times
94	114	134	154	Number of times to resend the Selecting Sequence when no answer in Phase 3	32	15 times
95	115	135	155	Delay before resending the Selecting Sequence when NAK is returned	24	3 seconds
96	116	136	156	Delay before resending the text when WABT is returned	24	3 seconds
98	118	138	158	Guard timer between texts	0◀	Not used

A

A

	DESCRIPTION	DATA
CMD001	**NOTE 1:** *For the Port 1 and Port 3, data speed 9600 bps cannot be set.*	
	NOTE 2: *For the PMS, the 2nd data=4 should be assigned.*	
CMD000	Send a Violation Code Message when PBX receives an illegal message from PMS.	(1) 140 (2) 1: To send
CMD001	Assign the function of OPE LED (L0-L3) on the AP00 card. AP00 INITIAL	(1) 250 (2) See the table below.

0◀

L3	No. 3 port SD
L2	No. 2 port SD
L1	No. 1 port SD
L0	No. 0 port SD

1

L3	No. 0 port CS
L2	No. 0 port CD
L1	No. 0 port SD
L0	No. 0 port RD

2

L3	No. 1 port CS
L2	No. 1 port CD
L1	No. 1 port SD
L0	No. 1 port RD

3

L3	No. 2 port CS
L2	No. 2 port CD
L1	No. 2 port SD
L0	No. 2 port RD

END

To provide MP built-in PMS on IP:

[Series 3400 software required]

NOTE: *The MP card (or the MP card in a Main Site when Remote PIM over IP feature is provided) communicates with the PMS terminal. For the settings in the PMS terminal side, set IP address assigned by CM0B Y=00 (or CM0B Y=02 when VLAN is provided) as a destination of the PMS terminal, and set "60050" as the port number.*

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2000-2099 (1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat) (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
CM0B	Assign the IP Address for the system. (INITIAL)	• Y=00 (1) 00 (2) 000000000000-255255255255: IP Address for the system
A		

	DESCRIPTION	DATA
A		
CM0B	Assign the Subnet Mask for the system. (INITIAL)	• Y=00 (1) 01 (2) 000000000000-255255255255: Subnet Mask for the system
	Assign the Default Gateway Address for the system. (INITIAL)	• Y=00 (1) 02 (2) 000000000000-255255255255: Default Gateway Address for the system
CM04	Specify the MP as a control method of the PMS.	• Y=01 (1) 10: Control method for the PMS (2) 0 : MP 3◀: AP00
	Specify PMS via LAN port as the destination to send a Built-in SMDR call information.	• Y=01 (1) 05: Destination to send a Built-in SMDR (2) call information 0 : SMDR terminal via LAN port 1 : PMS via LAN port 7◀: SMDR terminal via RS port
CM08	Specify the number of digits for a sequence used to communicate with the PMS.	(1) 825 (2) 0 : 3 digits (000-199) 1◀: 2 digits (00-99)
	Specify the timing that the system sends a recovery process request to the PMS.	(1) 826 (2) 0 : At every connection establishment 1◀: At the first connection establishment only since system initialization
CM13	Specify the kind of station.	• Y=51 (1) X-XXXXXX: Station No. (2) 0 : Administrative Station 1◀: Guest Station
END		

When displaying PMS information on an Administrative station, a Front Desk Terminal, do the following programming in addition to the programming of MP built-in PMS on IP.

[Series 3400 software required]

START	DESCRIPTION	DATA
CM08	Provided the system with Name Display service.	(1) 255 (2) 1◀: To provide
	Specify the time to go back to Data and Time display after the call answered.	(1) 120 (2) 0 : 10 seconds later 1◀: 6 seconds later
	Specify the duration to display the name.	(1) 121 (2) 0 : Until call finished 1◀: As per CM08>120
CM35	Assign a trunk name number to each trunk route.	• Y=03 (1) 00-63: Trunk Route No. (2) 00-14: Trunk Name No. 15 : Kind of trunk route assigned by CM35 Y=00 are displayed 16-63: Trunk Name No.
CM77	Enter the desired station user name to each station number by CM77 Y=0 or Y=1.	• Y=0 By Character Code (1) X-XXXXXX: Station No. (2) 20-7F: Character Code Maximum 32 digits See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=1 By Character (1) X-XXXXXX: Station No. (2) A-Z, 0-9: Character Maximum 16 characters
A		

	DESCRIPTION	DATA
A		
CM77	Enter the desired trunk name to each trunk route by CM77 Y=2 or Y=3.	• Y=2 By Character Code (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) 20-7F: Character Code Maximum 8 digits See APPENDIX B: Character Code Table. ☞ *Page B2* • Y=3 By Character (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=03 (2) A-Z, 0-9: Character Maximum 4 characters
CM08	Select the PMS information to display on an Administrative Station, a Front Desk Terminal and a Hotel Console.	(1) 548 (2) 0 : PMS information A/B 1◀: VIP/language
	Specify display PMS information set by CM08>548 on a Hotel Console.	(1) 549 (2) 0 : Display PMS information set by CM08>548 1◀: Not display
CM13	Specify display PMS information set by CM08>548 on an Administrative Station and a Front Desk Console.	• Y=52 (1) 0 (2) X-XXXXXX: Station No. 0 : Display PMS information set by CM08>548 1◀: Not display
END		

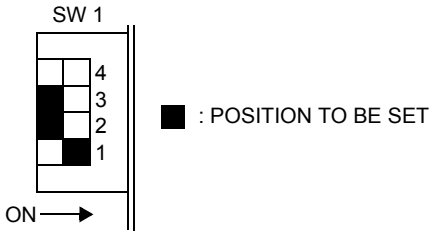
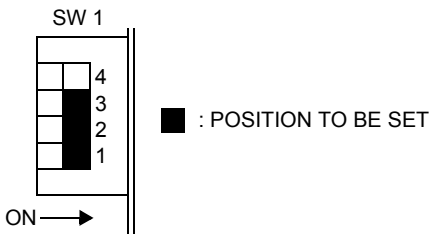
When printing the set/cancel/execution record of hotel features such as Automatic Wake Up/Do Not Disturb/Room Cutoff/Message Waiting, do the following programming in addition to the programming of MP built-in PMS on IP.

[Series 3600 software required]

AP Initialization (PN-AP00-B/PN-AP00-D with MRCA program)

You can distinguish whether the AP is active or not by the RUN lamp indication. The RUN lamp flashes on green color when the AP is in active.

When you install the AP00 at first time, you should assign the data shown below.

START	DESCRIPTION	DATA
CM05	Assign an AP number to the AP00 card. The AP number must match the SENSE switch setting on the AP00 card. (INITIAL) On the AP00 card, set SW1 switch as shown below. 	• Y=0 (1) 04-15, 20-31: AP No. (2) 45: PN-AP00-B/PN-AP00-D card with MRCA program SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
CMDD99	Load the initial data into the AP00 card. (AP OFF LINE) On the AP00 card, set the SW1 switch as shown below. 	(1) 0000 (2) CCC SW1-4 should be set as follows; ON : The AP No. is 04-15 OFF: The AP No. is 20-31
END		

To make available the RS port of PN-AP00-B/PN-AP00-D card (with MRCA program):

START	DESCRIPTION	DATA
CMDD01	Set interface condition for PN-AP00-B/ PN-AP00-D with MRCA program RS port. (AP00 INITIAL)	(1) 101 (Port 1) 103 (Port 3) (2) 00◀: Not used 12 : External Printer
	NOTE: *When setting the second data to 12, the initial data of CMDD10>X00, X01, X02, X03, X04, X05 is set automatically.*	
CMDD10	To change the interface condition of each port set by CMDD01, assign the attribute data, according to the PMS. (AP00 INITIAL)	(1) X00: Equipment Type Connected to Port 1, 3 X : 1, 3: Port 1, 3 (2) 6◀: External Printer 0
		(1) X01: Data Speed for Port 1, 3 X : 1, 3: Port 1, 3 (2) 1 : 300 bps 2◀: 1200 bps 3 : 2400 bps 4 : 4800 bps 5 : 9600 bps
		(1) X02: Stop Bit Length for Port 1, 3 X : 1, 3: Port 1, 3 (2) 0 : 1 bit 1 : 1.5 bits 2◀: 2 bits
		(1) X03: Data Length for Port 1, 3 X : 1, 3: Port 1, 3 (2) 0 : 7 bits 1◀: 8 bits
		(1) X04: Parity for Port 1, 3 X : 1, 3: Port 1, 3 (2) 0◀: No Parity 1 : Even Parity 2 : Odd Parity
		(1) X05: Printer Digit Number for Port 1, 3 X : 1, 3: Port 1, 3 (2) 0◀: 80 digits 1 : 20 digits
END		

To make available the printing of each hotel feature record:

START	DESCRIPTION	DATA
CM08	Specify whether the printing of each hotel feature record with the printer that is connected to the PMS using the PN-AP00-B/PN-AP00-D card (with MRCA program) is available, or not.	(1) 835 (2) 0 : Available 1◀: Not available
CMDD00	Specify whether the printing of Do Not Disturb set/cancel from a individual station is available, or not.	(1) 21 (2) 0◀: Available 1 : Not available
	Specify whether the printing of Do Not Disturb for a individual station set/cancel from a Front console/Hotel console/DSS console/PMS/Attendant console is available, or not.	(1) 22 (2) 0◀: Available 1 : Not available
	Specify whether the printing of Room Cutoff for a individual station set/cancel from a Front console/Hotel console/DSS console/PMS/Attendant console is available, or not.	(1) 23 (2) 0◀: Available 1 : Not available
	Specify whether the printing of Message Waiting set/cancel from a Front console/Hotel console/DSS console/PMS/Attendant console is available, or not.	(1) 24 (2) 0◀: Available 1 : Not available
	Specify whether the printing of Automatic Wake Up set/cancel from a individual station is available, or not.	(1) 25 (2) 0◀: Available 1 : Not available
	Specify whether the printing of Automatic Wake Up for a individual station set/cancel from a Front console/Hotel console/DSS console/PMS/Attendant console is available, or not.	(1) 26 (2) 0◀: Available 1 : Not available
	Specify whether the printing of Automatic Wake Up for a individual station execution is available, or not.	(1) 27 (2) 0◀: Available 1 : Not available
A		

	DESCRIPTION	DATA
A		
CMDD00	Specify the printing way of Automatic Wake Up for a individual station execution. **NOTE:** *When the second data is set to 1, the record of the start of calling/the called station is busy/re-calling is also printed.*	(1) 28 (2) 0◀: To print only result 1 : To print process and result
	Specify whether the printing of Check In/ Check In cancel, Check Out/Check Out cancel is available, or not.	(1) 33 (2) 0◀: Available 1 : Not available
	Specify whether the printing when the PMS is connected/disconnected to/from the system is available, or not.	(1) 34 (2) 0◀: Available 1 : Not available
	Specify whether the printing of Room Status Code Record is available, or not. **[Series 3700 R12.2 software required]**	(1) 35 (2) 0◀: Available 1 : Not available
	Specify the printing way of Immediate Printout Call Record. **[Series 3700 R12.2 software required]**	(1) 36 (2) 0◀: Call charge by MP built-in SMDR 1 : ISDN call charge information (AOC)
	Specify whether the printing of Account Code (ACC)/Authorization Code is available, or not. **[Series 3700 R12.2 software required]**	(1) 37 (2) 0◀: Not available 1 : Available
CMDD04	Send detail information of Immediate Printout Call Record for the Printer. **[Series 3700 R12.2 software required]**	(1) XX 14: Send detail information of Immediate Printout Call Record for the Printer XX : Service Class No. assigned by CM12 Y=45 (2) 0◀: Not sent 1 : To send
END		

HARDWARE REQUIRED

PMS
AP00-B card with AP00 program (for PMS with AP00 on RS-232C)
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)
AP00-B/AP00-D card with MRCA program (for MP built-in PMS on IP with printer)

ROOM CUTOFF

PROGRAMMING

To provide the Room Cutoff by using Room Cutoff key of a Front Desk Terminal or PMS, do the following programming in addition to the programming of "HOTEL/MOTEL FRONT DESK INSTRUMENT" ☞*Page 800* or "PROPERTY MANAGEMENT SYSTEM INTERFACE" ☞*Page 821*.

START	DESCRIPTION	DATA
CM08	Specify the type of call to be restricted by Room Cutoff.	(1) 232 (2) 0 : C.O. outgoing calls 1◀: All outgoing calls
	Specify whether Room Cutoff record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Room Cutoff.	(1) 267 (2) 0 : Available 1◀: Not available
	Specify whether the printing of each hotel feature record with the printer using the PN-AP00-B/PN-AP00-D card (with MRCA program) is available or not. **[Series 3600 software required]**	(1) 835 (2) 0 : Available 1◀: Not available
CM51	Assign the destination of a call transferred when the station in Room Cutoff condition dials outgoing access code.	• Y=11 (1) 00-63: Tenant No. (2) X-XXXXXX: Station No. or E000: Attendant Console
CM90	Assign the Call Forwarding-Intercept (ICPT) key, if the DESKCON is assigned as destination by CM51 Y=11.	• Y=00 (1) ATTCON No. (E000-E007) + [,] + Key No. (2) F6065: Call Forwarding-Intercept
	Assign the function keys required for Room Cutoff on the Front Desk Terminal. **NOTE:** *This data assignment is not required when Room Cutoff is set by PMS.*	• Y=00 (1) My Line No. + [,] + Key No. (2) F1065: Room Cutoff **NOTE** F1074: Set F1075: Reset F1077: Release
A		

	DESCRIPTION	DATA
A		
CM90	Assign the function key required for Room Cutoff on the DESKCON, if provided.	• Y=00 (1) ATTCON No. (E000-E007) + [›] + Key No. (2) F6100: Room Cutoff F6104: Reset
CMD000	Send Controlled Restriction message to PMS when setting Room Cutoff feature, if PMS with AP00 on RS-232C is provided.	(1) 115 (2) 1: To send
	Specify whether the printing of Room Cutoff set/cancel from Front Desk Terminal is available or not.	(1) 153 (2) 0◀: Available 1 : Not available
CMD015	Assign the Service Class number for CMD016 to required stations, if PMS with AP00 on RS-232C is provided.	(1) X-XXXX: Station No. (2) 00◀-15: Service Class No.
CMD016	Send Room Status Code which includes Room Cutoff record, to PMS, if PMS with AP00 on RS-232C is provided.	(1) XX 05: Room Status Code sending to PMS XX : Service Class No. assigned by CMD015 (2) 1: To send
END		

To provide the Room Cutoff by using the Room Status Code, do the following programming in addition to the programming of "HOTEL/MOTEL FRONT DESK INSTRUMENT" ☞ *Page 800* or "MAID STATUS" ☞ *Page 810*.

START	DESCRIPTION	DATA
CMD015	Assign the Class of Service for Room Status.	(1) X-XXXX: Guest Room Station No. (2) 00-15: Service Class No.
CMD016	Assign the Room Status Processing to the Service Class assigned by CMD015.	(1) XX 06 XX: Service Class No. assigned by CMD015 (2) 1: Yes
	Assign the Toll Calls and International Calls restriction function to the Service Class assigned by CMD015.	(1) XX 46 XX: Service Class No. assigned by CMD015 (2) 1: Yes
CMD031	Assign the Room Cutoff function to the Room Status Code assigned by CMD001>12 and 13.	(1) X 00: Room Cutoff is set X 01: Room Cutoff is reset X : 1-8: Room Status Code (2) 1: Yes
	Assign the Room Status Code to be restricted for Toll Calls and International Calls.	(1) X 08 X: 1-8: Room Status Code (2) 0◀: Restricted 1 : Allowed
CMD026	Assign the Call Development Table Number to Outgoing trunk routes.	(1) 00-63: Trunk Route No. (2) 0◀-511: Call Development Table No.
A		

A

	DESCRIPTION	DATA
CMD027	Specify if the dialed digit should be changed (Toll Call and International Call) or not. **NOTE:** *When specifying the changed digits by CMD027, the same number of digits must be assigned as specifying the Type of Call by CMD034.*	(1) XXX Y XXX: Call Development Table No. (000-511) assigned by CMD026 Y : First Dialed Digit: 0-9, A (*), B (#) (2) XXX 3 XXX: Call Development Table No. of next digit (000-511) 3 : Referring to the next digit assignment (1) XXX Y XXX: Call Development Table No. (000-511) Y : Dialed Digit (2) 1 : Not to be charged 9◀: Send to SMDR terminal
CMD033	Assign the Type of Call Development Table for each outgoing trunk routes.	(1) 00-63: Trunk Route No. (2) 0◀-127: Type of Call Development Table No.
CMD034	Assign the Type of Call for each dialed digit (0-9, A, B) on the basis of each Type of Call Development Table Number assigned by CMD033. **NOTE 1:** *This feature restricts Toll Call and International Call (Type of Call No. 2 and No. 3).* **NOTE 2:** *When specifying Type of Call by CMD034, the same number of digits must be assigned as specifying the dialed digits to be changed by CMD027.*	(1) XXX Y XXX: Type of Call Development Table No. (0-127) assigned by CMD033 Y : First Dialed Digit: 0-9, A (*), B (#) (2) X-XXX 0 X-XXX: Type of Call Development Table No. of next digit (0-127) 0 : Referring to next digit assignment (1) XXX X XXX: Type of Call Development Table No. (0-127) X : Dialed Digit (2) X 1: For assigning Type of Call X: 1◀: Local Call 2 : Toll Call 3 : International Call 7-9: Tie Line Call

END

To provide Room Cutoff from a Front Desk Terminal with AP00-B/AP00-D card with MRCA program, refer to the programming in "HOTEL/MOTEL TOLL RESTRICTION CHANGE-GUEST STATION".
☞ *Page 807*
[Series 3900 software required]

HARDWARE REQUIRED

AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
Front Desk Terminal or
PMS
RS RVS-15S CA/RS RVS-4S CA/RS NORM-4S CA (for PMS with AP00 on RS-232C)

ROOM STATUS

PROGRAMMING

Refer to "MAID STATUS" ☞ *Page 810*

HARDWARE REQUIRED

AP00-B card with AP00 program or AP00-B/AP00-D card with MRCA program
Front Desk Terminal

SINGLE DIGIT DIALING

PROGRAMMING

START

CM21

A

DESCRIPTION

Assign the single digit access code for the required features.

For example, to provide the system with the following numbering plan:

1X : Service Feature Access
2XX:
3XX: Station Numbers
4XX:
8X : Trunk Route Access
9 : C.O. Outgoing Access
0 : Operator Call
1-8 : Single Digit Station Numbers

The programming is:

(1) Assign digit 1 through 8 to the Single Digit station number (Data=801), respectively. Assign the other access code by CM20.
(2) Assign the station numbers (2XX, 3XX, 4XX, 1-8) to required LEN by CM10/ CM14.

DATA

- Y=0-3: Numbering Plan Group 0-3

(1) X: Single Digit Access Code 0-9, A (*), B (#)
(2) A047 : TAS Answer A
A048 : TAS Answer B
A049 : TAS Answer C
A050 : TAS Answer D
A051 : TAS Answer E
100-163: Trunk Route 00-63
200-231: Route Advance Block 00-31
800 : Operator Call
801 : Single Digit station No.

	DESCRIPTION	DATA
A		
CM20	If different digit station numbers of the same level are required within a system, set the leading one or two digits to the data for the required combination of station numbering plan. For example, to provide the system with the following numbering plan: 200-299 : 3 digits station numbers 2100-2199: 4 digits station numbers 2200-2299: 4 digits station numbers Assign the digit "2" to data 824 (2-4 digits station) and then assign the station numbers to required LEN by CM10/CM14. For calling the station 200-299 press "#" key or wait for ring start after dialing the station number.	• Y=0-3: Numbering Plan Group 0-3 (1) X-XX: Leading one or two digits of station No. (2) 823: 2-3 digits station 824: 2-4 digits station
CM41	Specify the single digit dialing time-out (Timing Start) timer.	• Y=0 (1) 13 (2) 03-08: 3-8 seconds (1 second increments) If no data is set, the default setting is 4-5 seconds.
END		

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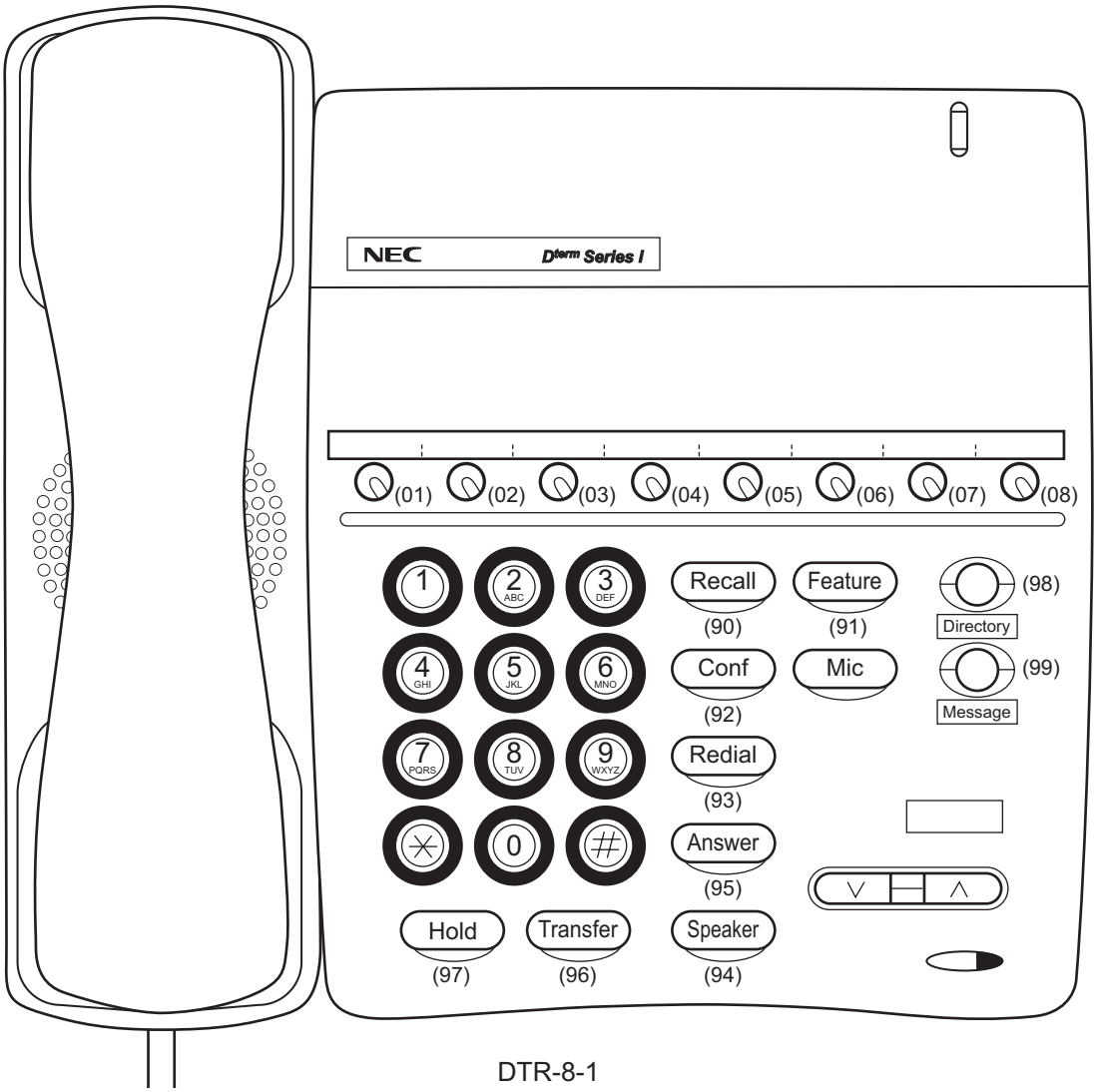
APPENDIX A

TERMINAL KEY ASSIGNMENT

This appendix contains the key number layout of each D^{term}, D^{term}IP, DESKCON, DSS Console, and Add-On Module.
Refer to this appendix when you assign a key function by CM90 or CM97.

D^term85/D^termIP Key Numbers



DTR-8-1

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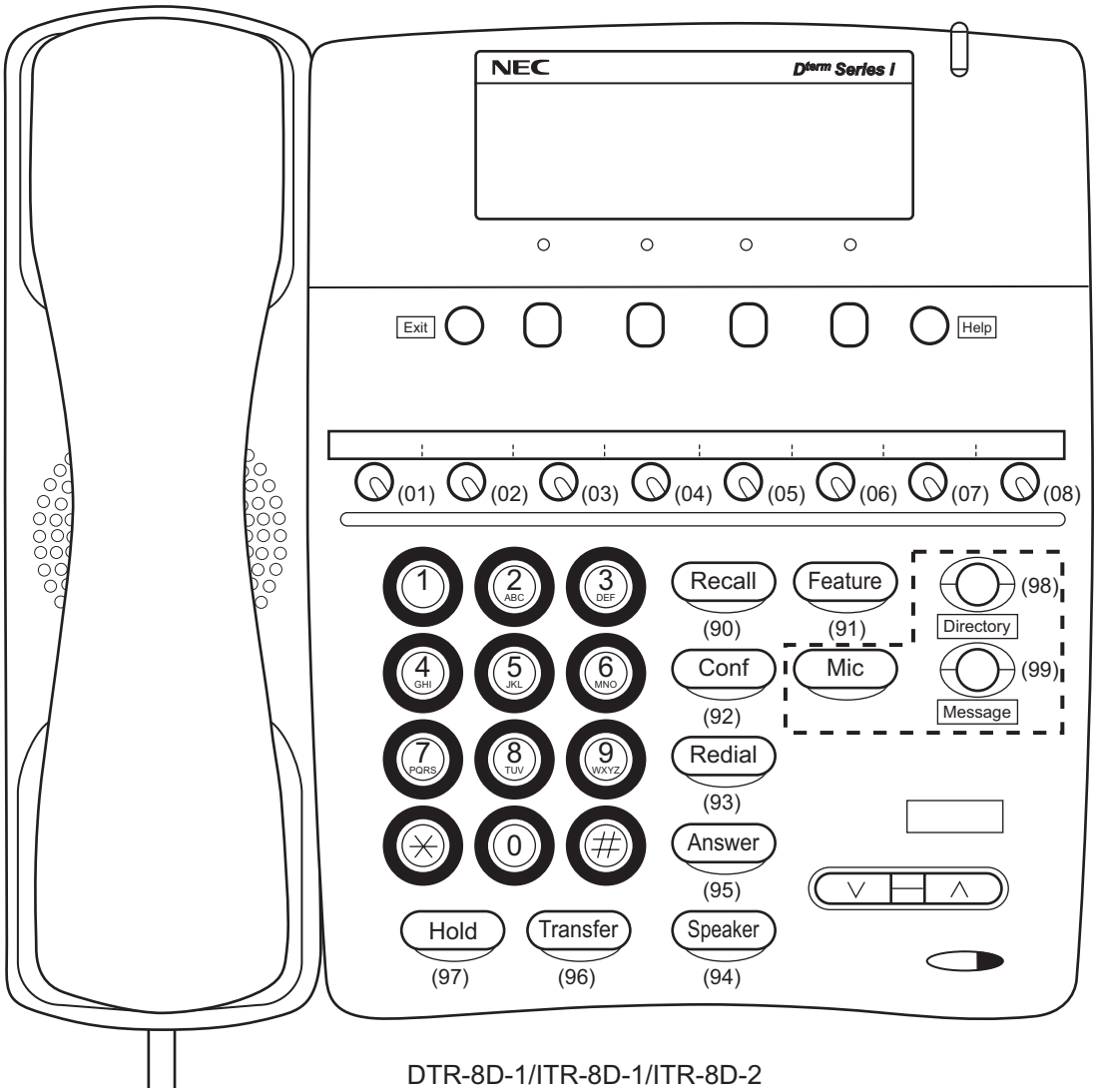
Dterm85/DtermIP Key Numbers

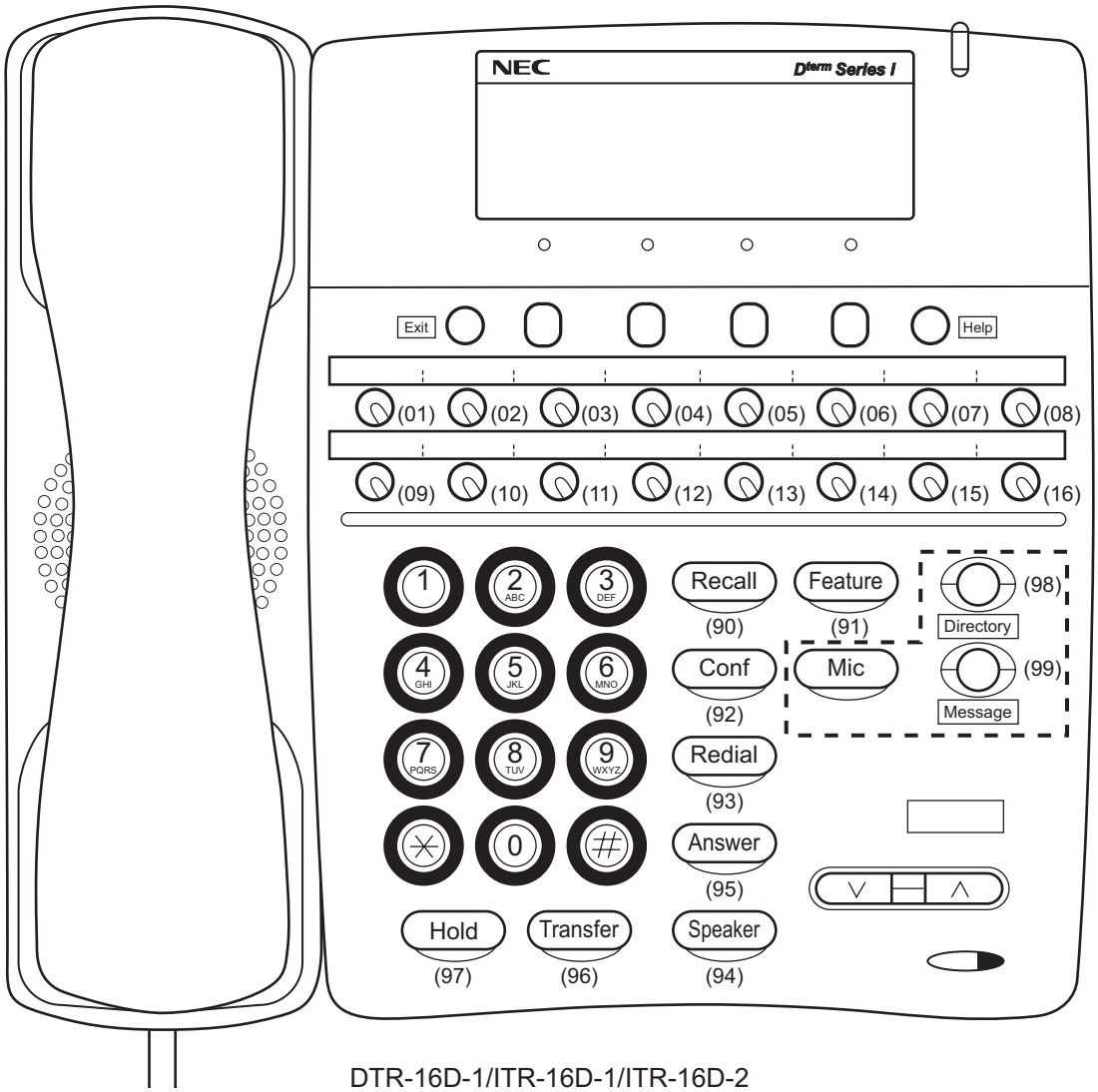


DTR-8D-1/ITR-8D-1/ITR-8D-2

NOTE: *In case of ITR-8D-1, Directory, Message and Mic keys are not equipped.*

Continued on next page

D^term85/D^termIP Key Numbers

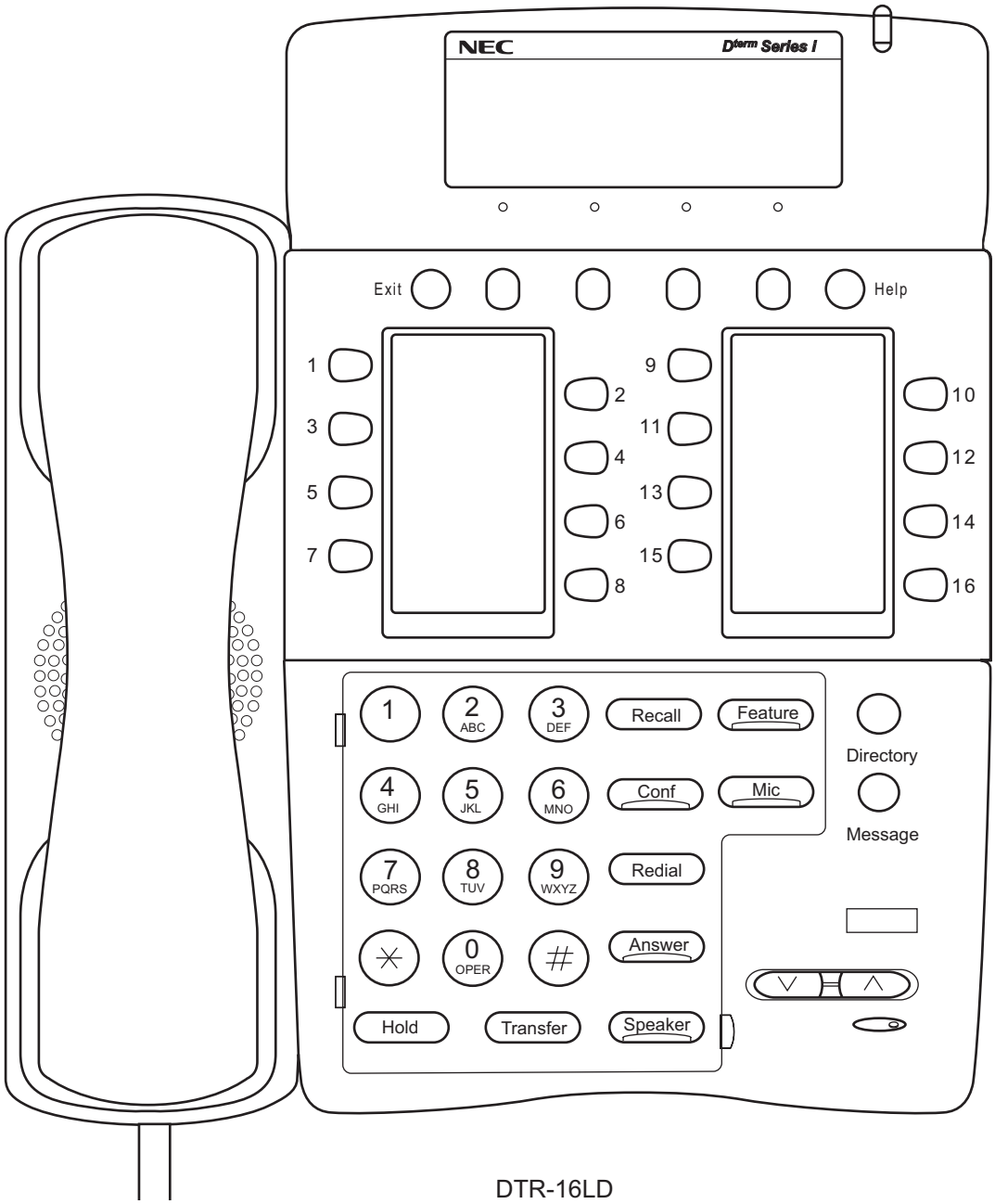


DTR-16D-1/ITR-16D-1/ITR-16D-2

NOTE: *In case of ITR-16D-1, Directory, Message and Mic keys are not equipped.*

Continued on next page

D^term85/D^termIP Key Numbers



DTR-16LD

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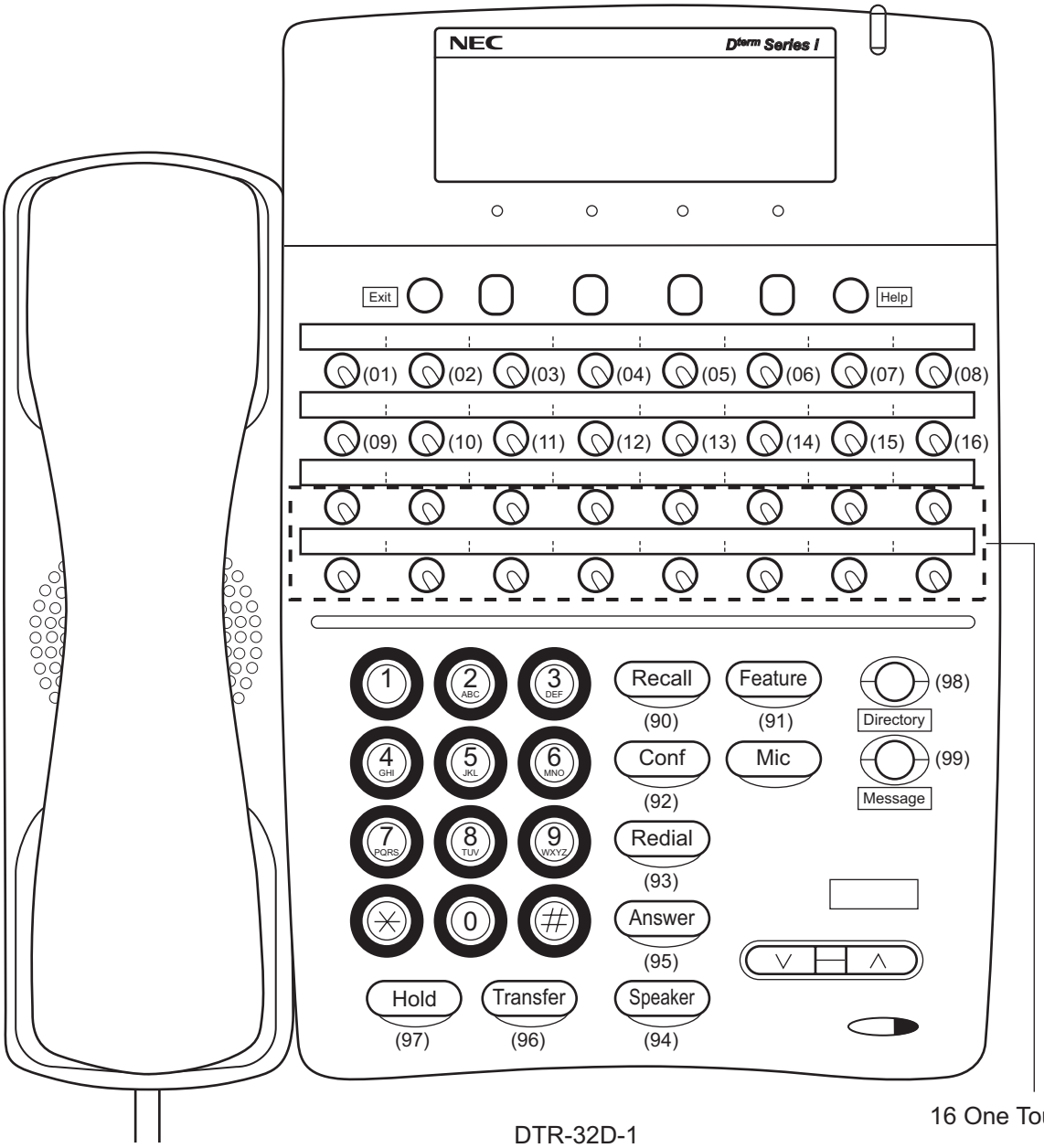
D^term85/D^termIP Key Numbers

16 Line/Trunk/Feature Keys + 16 One Touch Keys



DTR-32D-1

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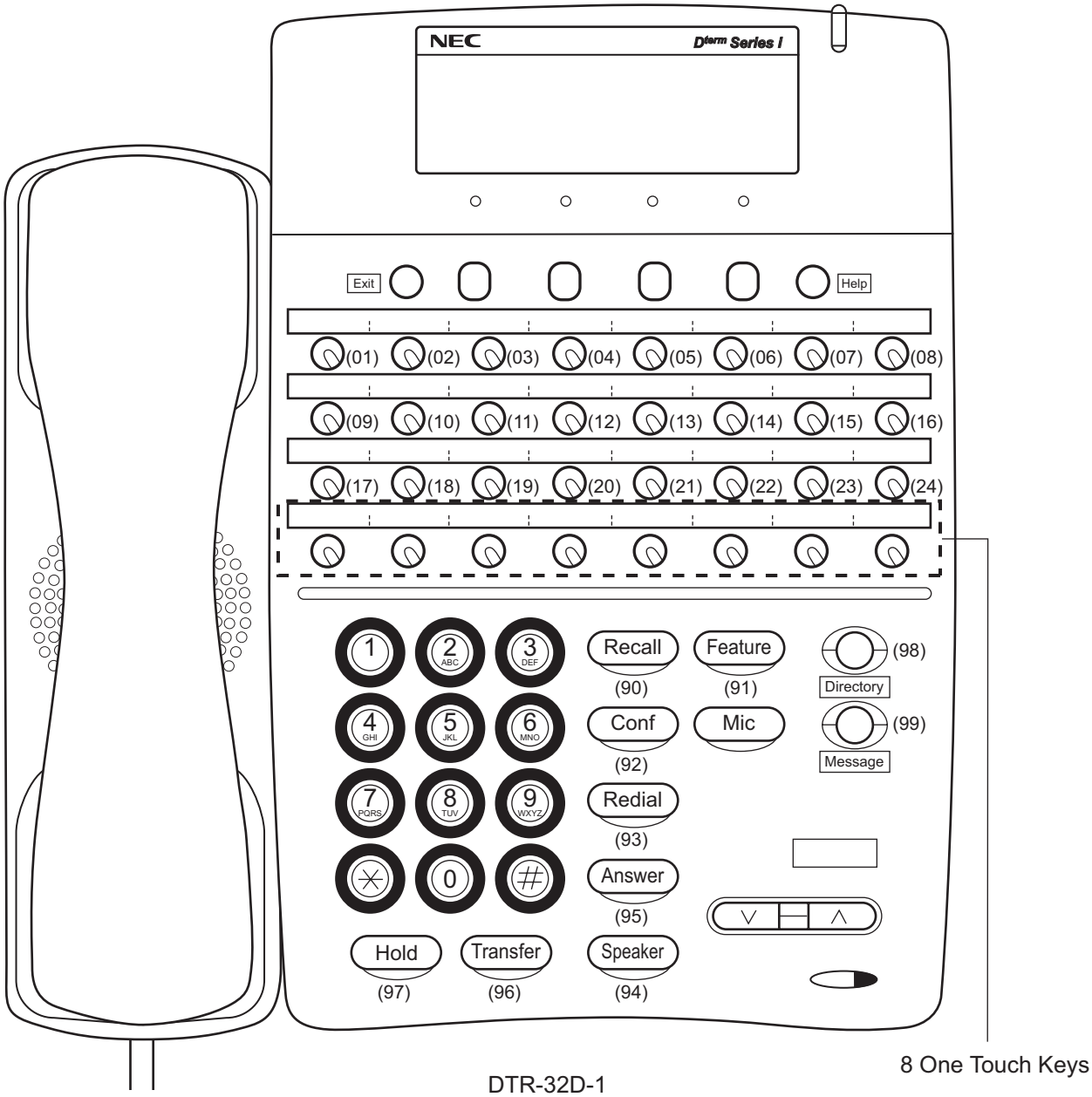
D^term85/D^termIP Key Numbers

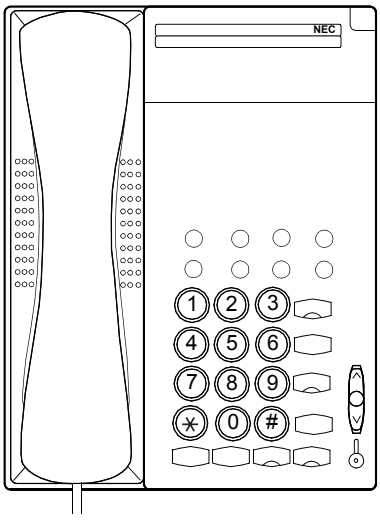
24 Line/Trunk/Feature Keys + 8 One Touch Keys



DTR-32D-1

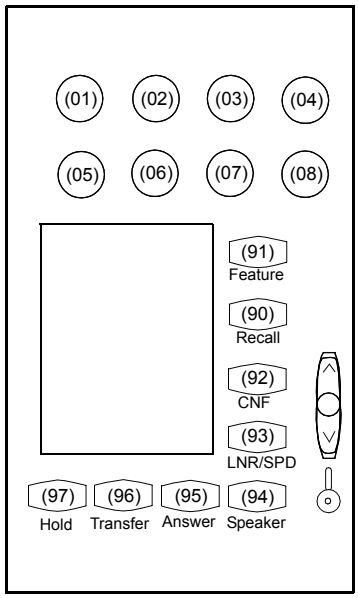
NOTE: *The initial setting of key layout is for 16 Line/Trunk/Feature keys + 16 One Touch keys. When using key No. 17-24, set CM12 Y=24, 2nd data=0. After the 2nd data of CM12 Y=24 is changed, pull out and reconnect the modular connector of the D^term.*

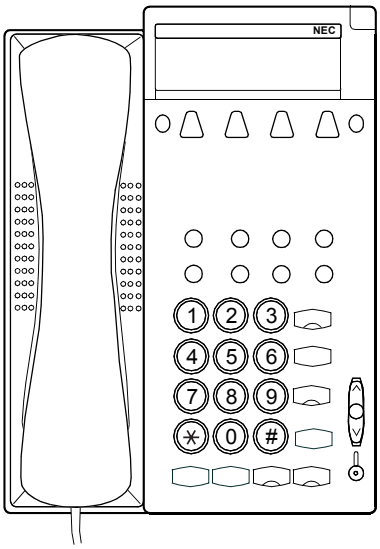
D^term^75 Key Numbers



DTP-8-1

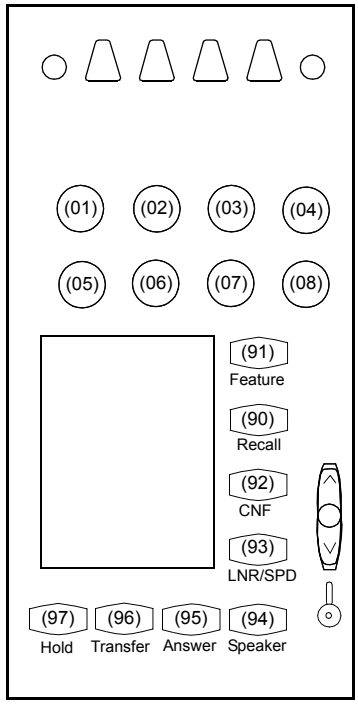
D^term^ Key Numbers





DTP-8D-1

D^term^ Key Numbers



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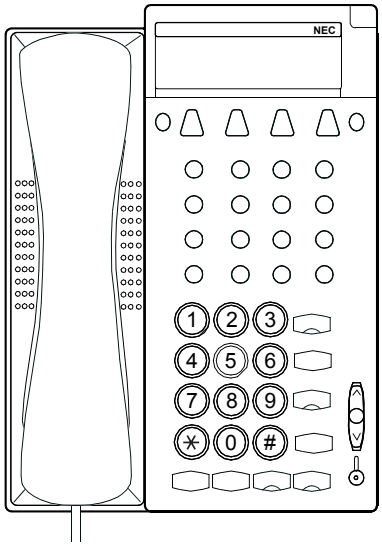
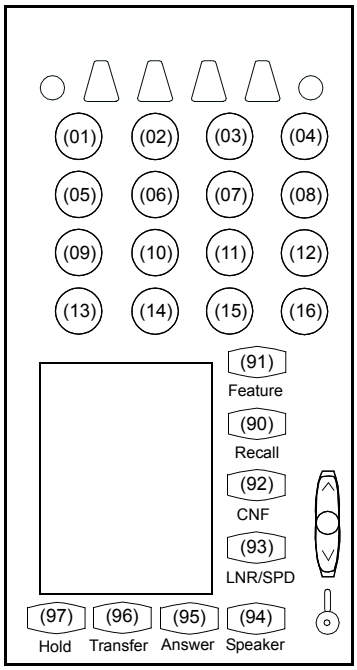
D^term^75 Key Numbers



DTP-16D-1

D^term^ Key Numbers



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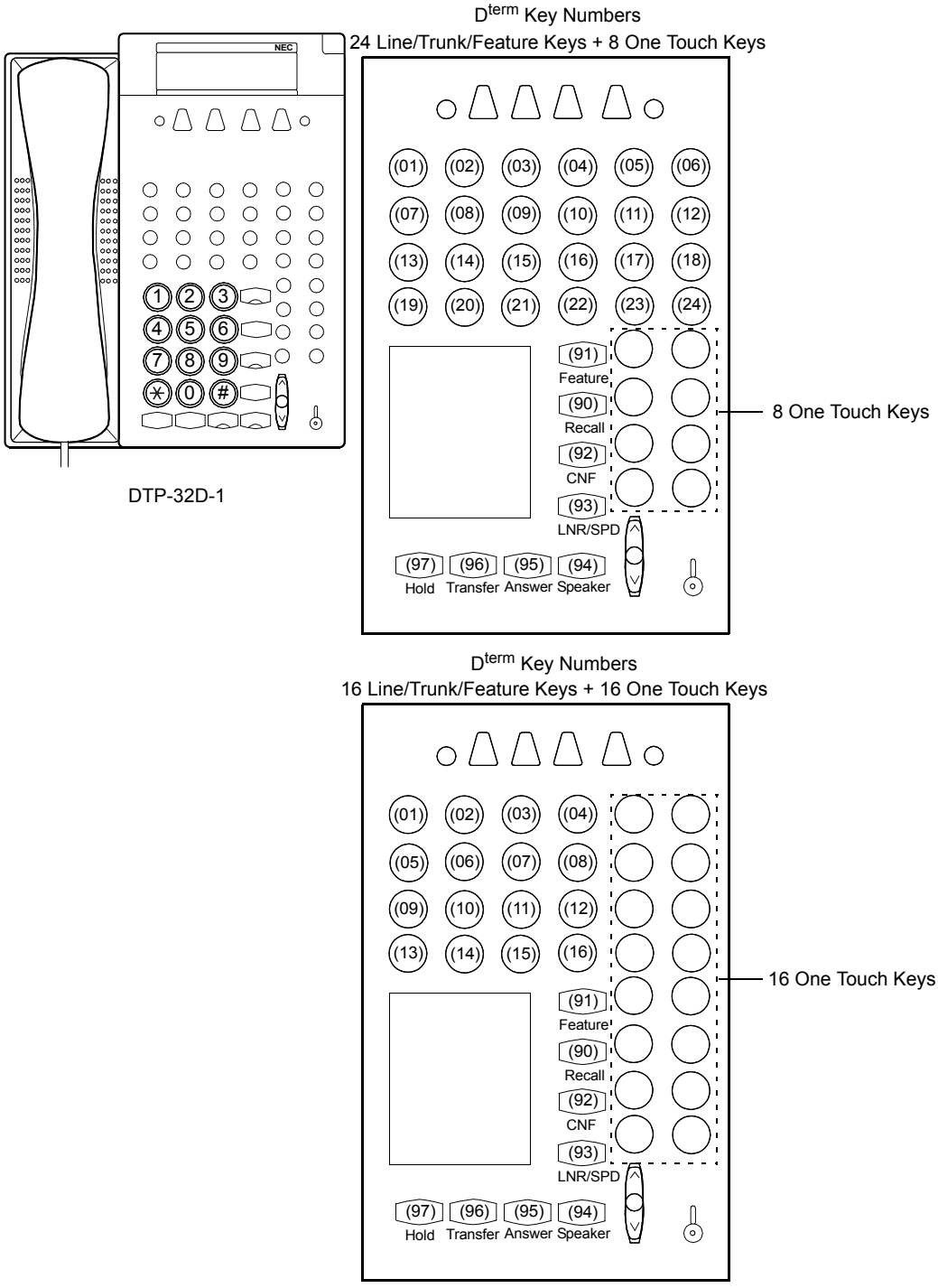
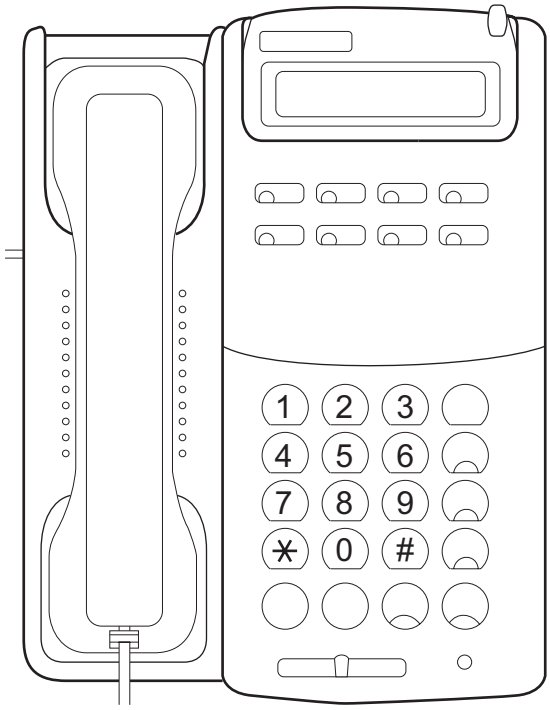
D^term75 Key Numbers

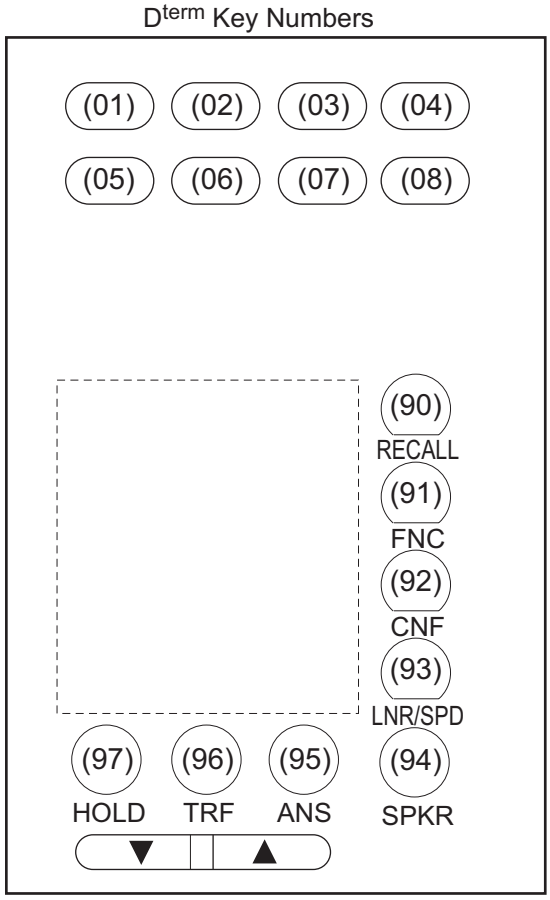


NOTE: *The initial setting of key layout is for 16 Line/Trunk/Feature keys + 16 One Touch keys. When using key No. 17-24, set CM12 Y=24, 2nd data=0. After the 2nd data of CM12 Y=24 is changed, pull out and reconnect the modular connector of the D^term.*

D^term^65 Key Numbers



ETJ-8DC-1



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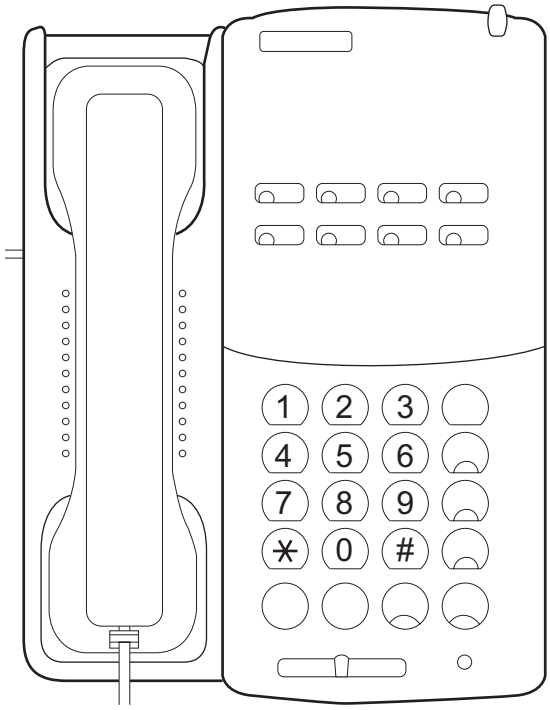
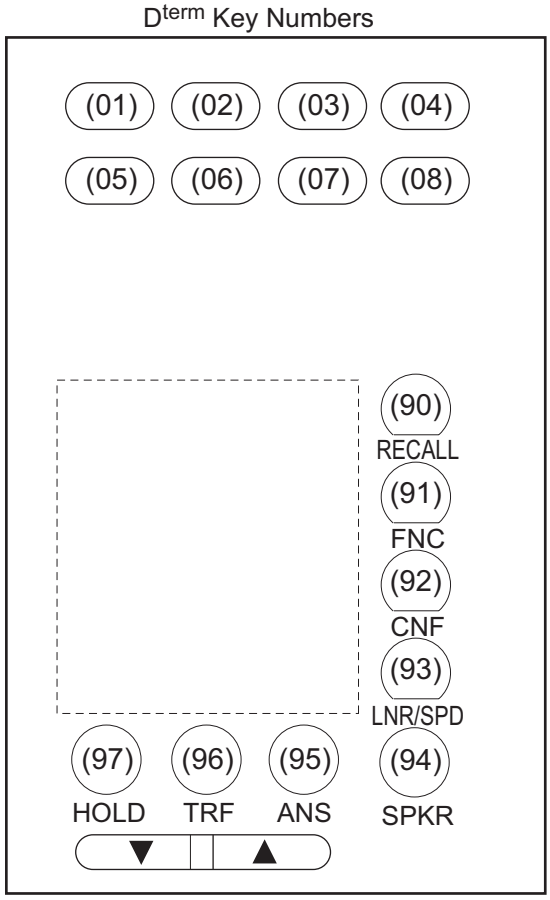
D^term^65 Key Numbers



ETJ-8-1



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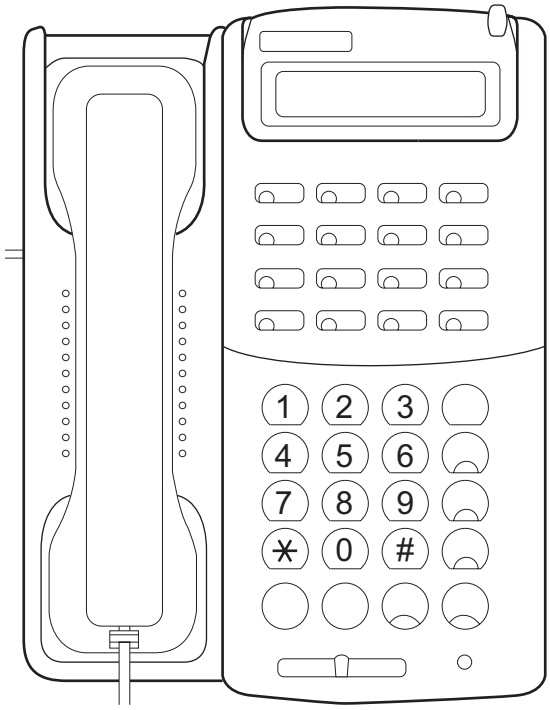
D^term^65 Key Numbers



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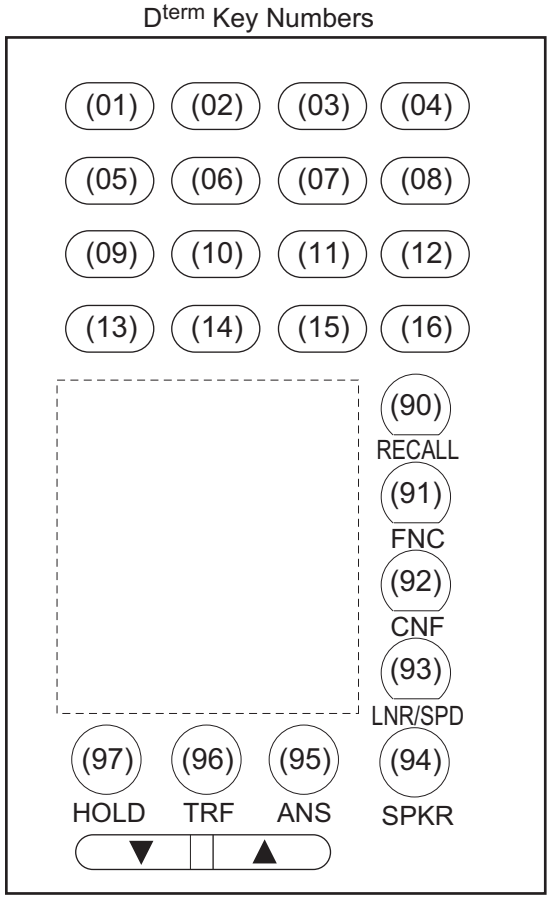

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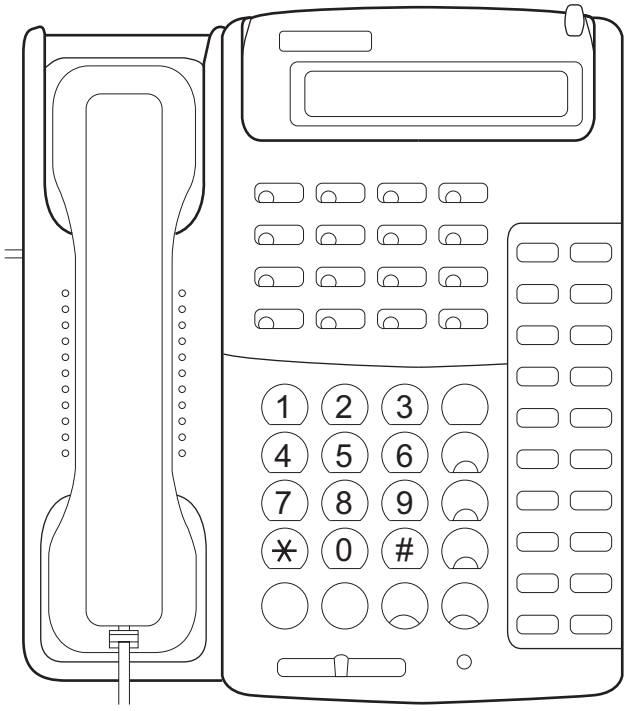
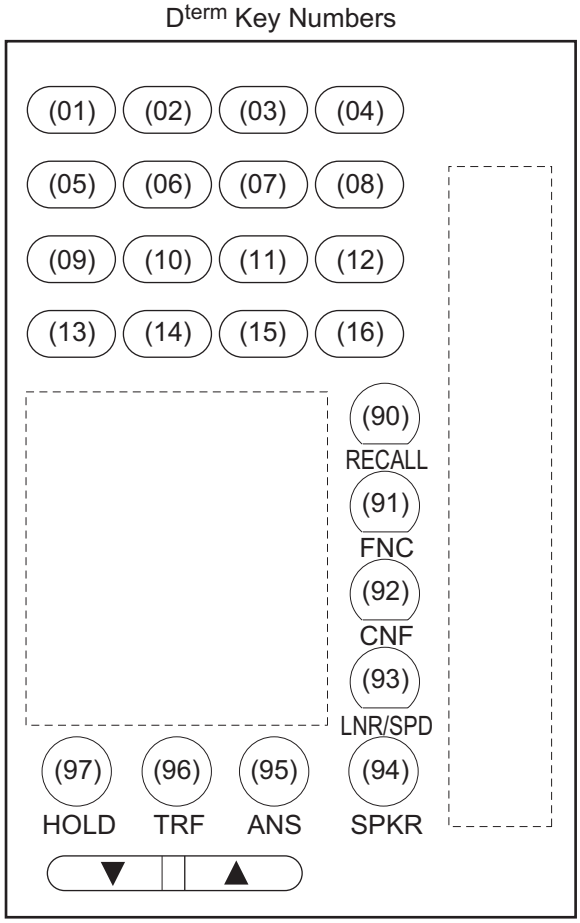
D^term^65 Key Numbers



ETJ-16DD-1



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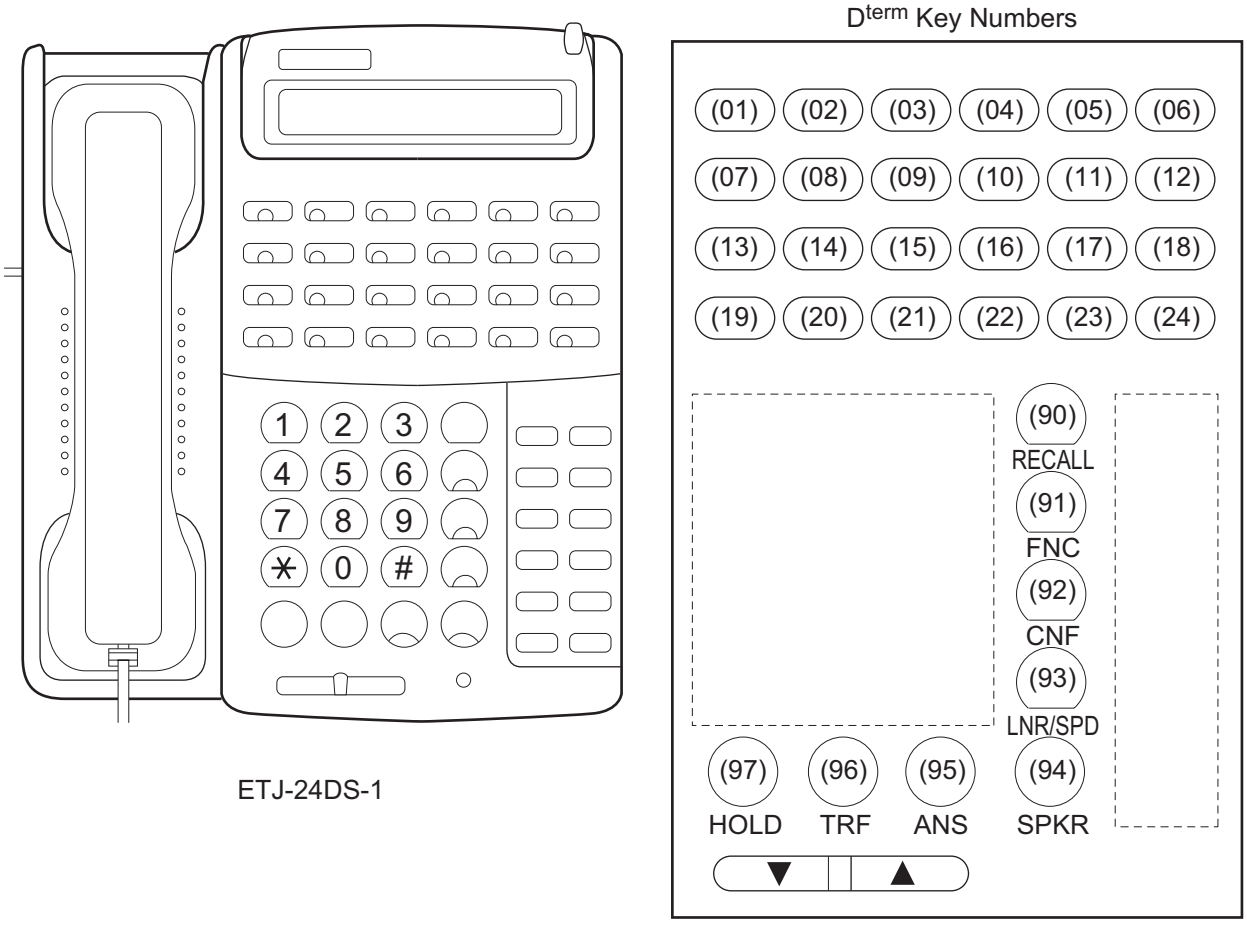
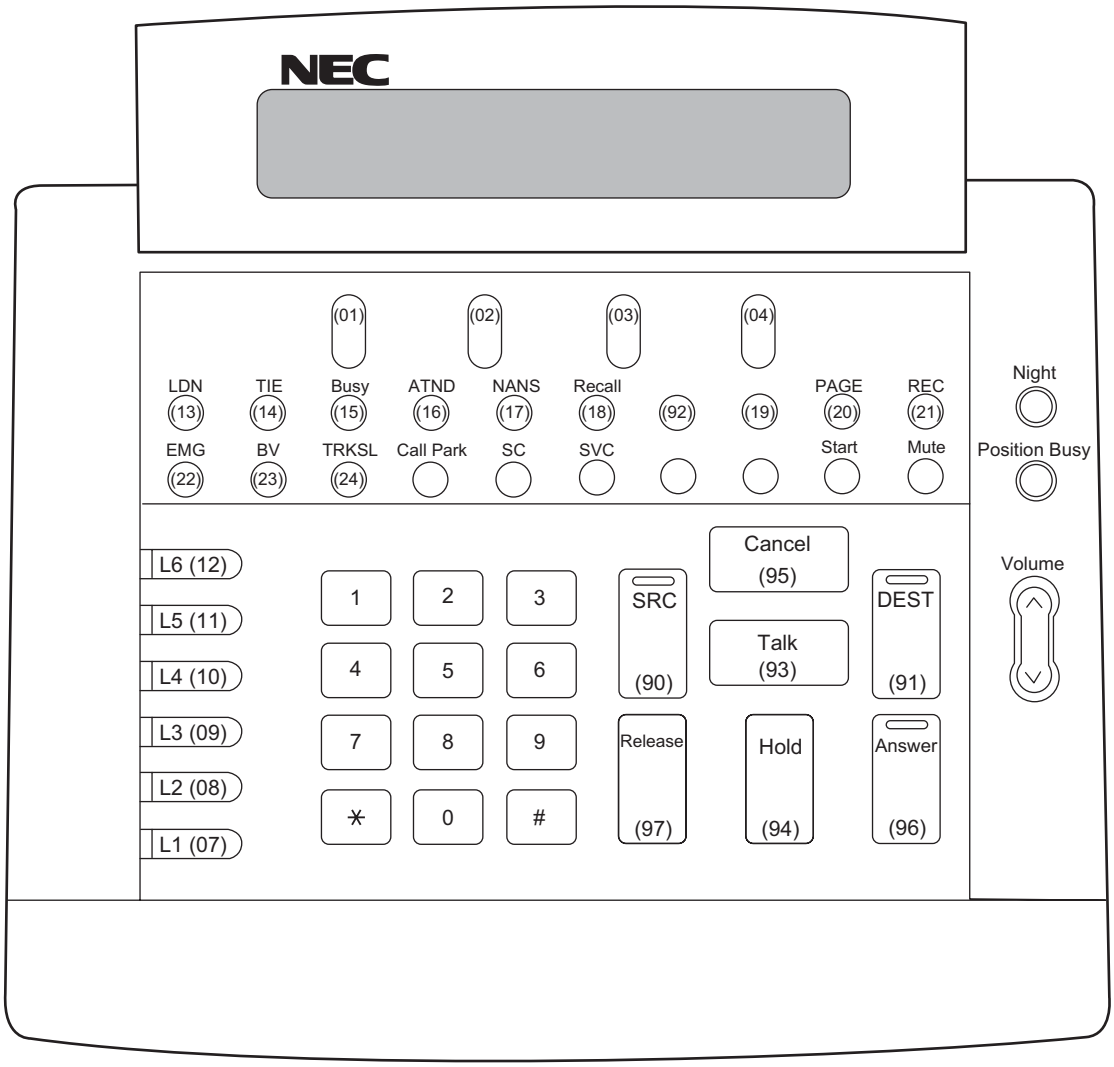
D^term65 Key Numbers



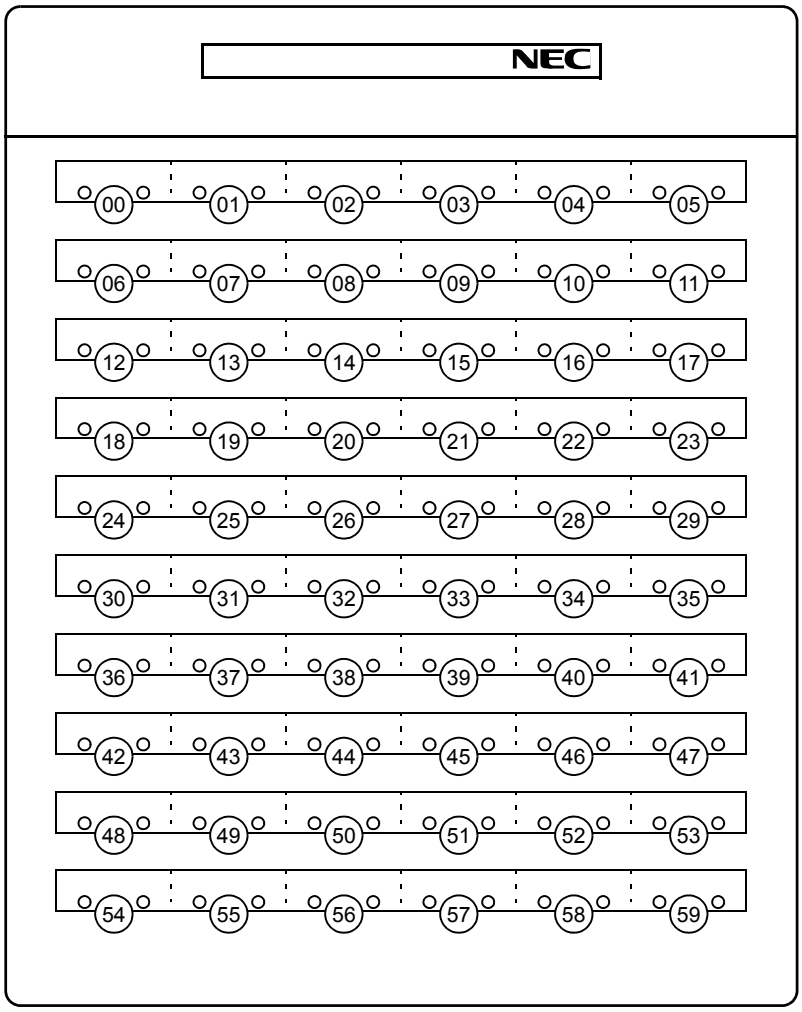
ETJ-24DS-1

NOTE: *When using key No. 17-24, set CM12 Y=24, 2nd data=0. After the 2nd data of CM12 Y=24 is changed, pull out and reconnect the modular connector of the D^term.*

DESKCON Key Numbers



DSS Console Key Numbers



DCU-60-1

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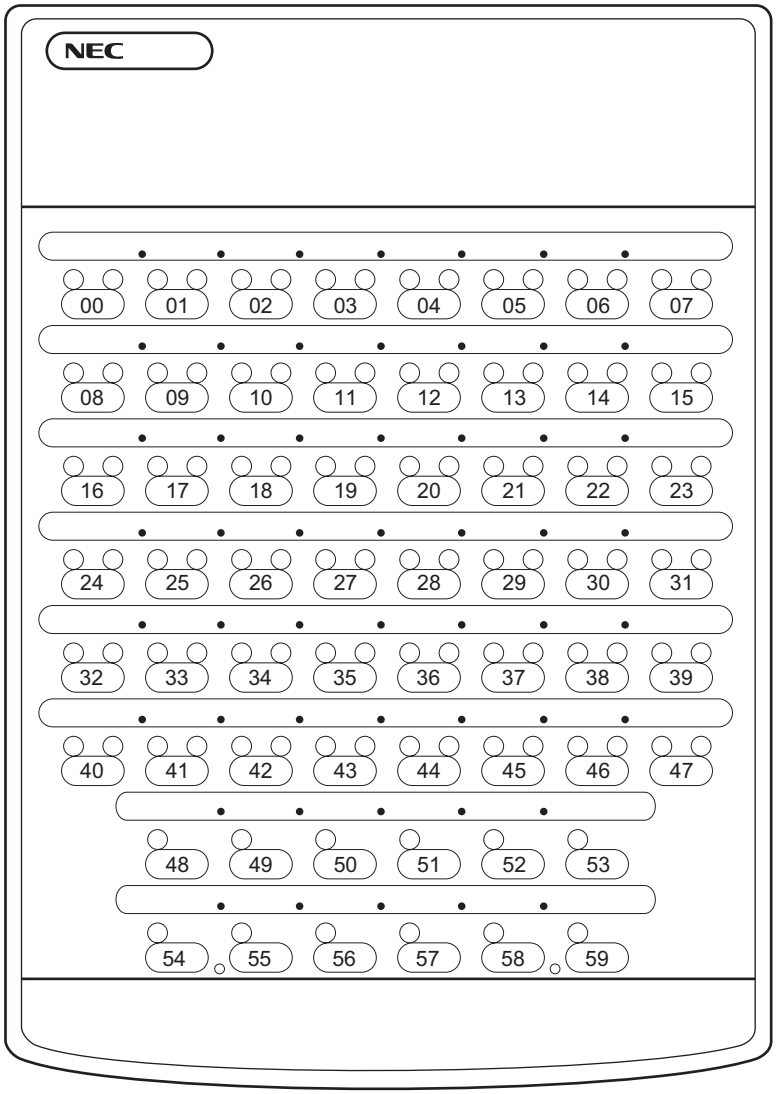
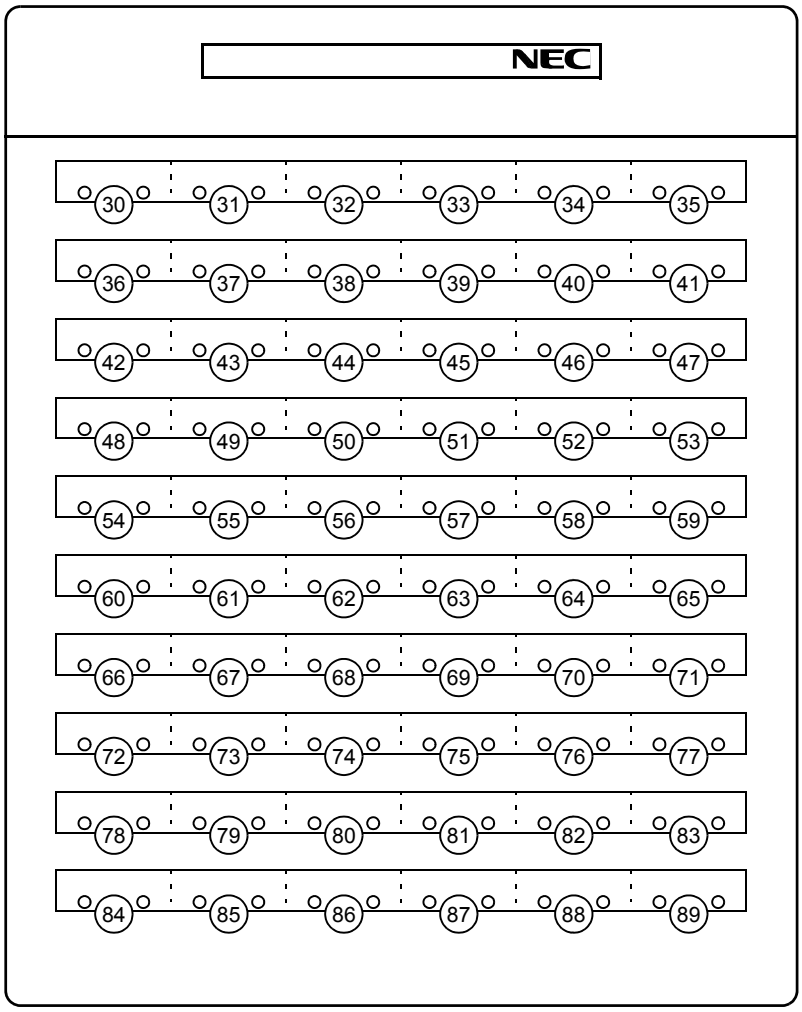
DSS Console Key Numbers



EDW-48-2

Add-On Module Key Numbers



DCU-60-1

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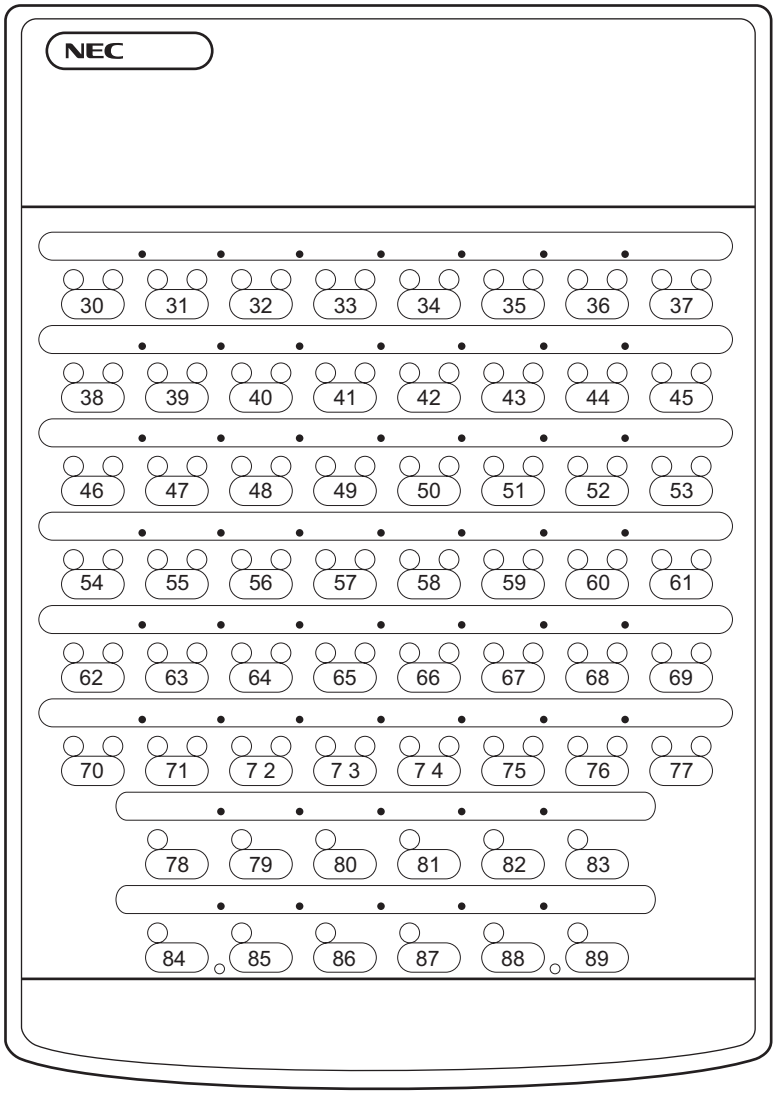
Add-On Module Key Numbers



EDW-48-2

APPENDIX B

CHARACTER CODE TABLE

This appendix contains the character code table to set a station name displayed on D^{term} or Attendant Console.

Character Code Table

X: Upper digit Y: Lower digit

Y \ X	2	3	4	5	6	7
0		0	@	P	\	p
1	!	1	A	Q	a	q
2	”	2	B	R	b	r
3	#	3	C	S	c	s
4	$	4	D	T	d	t
5	%	5	E	U	e	u
6	&	6	F	V	f	v
7	’	7	G	W	g	w
8	(	8	H	X	h	x
9	)	9	I	Y	i	y
A	*	:	J	Z	j	z
B	+	;	K	[	k	{
C	,	<	L	¥	l	|
D	-	=	M	]	m	}
E	.	>	N	^	n	~
F	/	?	O	_	o	←

Example: To set “John”, do the following operation.

4A	6F	68	6E
J	o	h	n