PROGRAMMING

TABLE OF CONTENTS PROGRAMMING

1. Introduction to Programming

1.1	Programming Overview	4-1
1.2	Programming Levels	4-1
1.3	Program Keys	4-2

2. Programming Procedures

2.1	Program	List		4-4
2.2	Program	Procedures	(MMCs)	4-5

1. Introduction To Programming 1.1 Programming Overview

The system arrives from the factory with default data. Connect it to trunks, stations and power, turn the system on and it is fully operational. The only thing left to do is customise the data to fit the customer's needs. This is called programming the system.

MMC stands for Man Machine Code and each program is assigned a different 2-digit code. These MMC are used to view, create or change customer data. Programming is simply deciding what needs to be done and knowing which MMC is used to do it.

System programming may be done from any NX-24E , NX-24B or NX-6B keyset (see 1.3.1), add-on module (AOM) or any keyset with an LCD (see 1.3.2). The first thing you must do is open system programming. As a security measure, a passcode is required in order to do this.

1.2 Programming Levels

There are three levels of programming: System, Customer and Station. System and Customer levels are under passcode protection; station programming does not require a passcode.

To prevent conflicting data from being entered, only one person at a time can enter programming with the technician or customer passcode. While programming is in progress, normal system operation is not affected.

SYSTEM LEVEL

This level is entered via MMC 20 and requires the technician-level passcode. It allows access to all system programs, station programs and maintenance programs.

CUSTOMER LEVEL

This level is entered via MMC 20 and requires the customer-level passcode. It provides access to station programs and system programs allowed by the technician in MMC 90. When using the customer passcode to access station programs, data for all stations can be viewed or changed.

STATION LEVEL

All keysets can access station programs 10-17 without using a passcode. Each user can only change data for his/her own keyset.

1.3 Program Keys 1.3.1 NX-keyset with LCD



LINE1, LINE2	:Scroll through stations or trunks.
MUTE/DND or MSG	:Normally used to select data.
AUTO RDL	:Enter programming mode. Also used to save changes and
	exit the program.
SPEAKER	:Save changes and advance to the next program.
HOLD	:Normally used to clear previous data.

1.3.2 Other keysets with LCD

If the user has another type of keyset with an LCD, such as the 816 keyset, the keys used for programming are a little different from the NX- keyset. The following table describes these different keys.

NX-keyset	816 keyset
AUTO RDL	AUTO RDL
ALM/SD	ALM/SD
RDL	RD
CONF	CONF
CALLBACK	CALLBACK
PAGE	PAGE
MUTE/DND	MUTE/DND
MSG	MSG
SPEAKER	SPK
HOLD	HOLD
LINE1/LINE2	TIMER/AUTO ANS

2. Programming Procedures

2.1 Program List

00: STATION LOCK

- 01: CHANGE USER PASSCODE
- 10: SET ANSWER MODE
- 11: CALL FORWARD
- 12: STATION ON/OFF
- 13: SET RING FREQUENCY
- 14: STATION NAME
- 15: DATE DISPLAY
- 16: KEY EXTENDER
- 17: STATION SPEED DIAL

20: OPEN PROGRAMMING

- 21: CHANGE PASSCODE
- 22: CUSTOMER ON/OFF
- 23: PAGE ZONE
- 24: ASSIGN BARGE-IN
- 25: HOT/WARM LINE
- 26: ALARM REMINDER
- 27: VACANT MESSAGE
- 28: CALL DISC

30: STATION TOLL CLASS

- 31: EXT/TRK USE
- 32: INTERCOM USE
- 33: ASSIGN DOOR RING
- 34: ASSIGN PICKUP GROUP
- 35: ASSIGN STATION GROUP
- 36: ASSIGN BOSS/SECRETARY
- 37: ASSIGN ADD-ON MODULE
- 38: SLT DIALING TYPE
- 39: DATA LINE
- 40: C.O./PBX LINE
 41: TRUNK DIALING TYPE
 42: TRUNK ON/OFF
 43: ASSIGN TRUNK RING
 44: TRUNK NAME
 45: TRUNK GROUP
 46: ASSIGN DISA LINE

- 47: ASSIGN MPD
- 50: SYSTEM TIMERS
- 51: TONE/RING CADENCE
- 52: SYSTEM WIDE COUNTER
- 53: TRUNK WIDE TIMER
- 54: MAKE/BREAK RATIO
- 55: CURRENT DATE AND TIME
- 56: ASSIGN AUTO NIGHT TIME
- 57: CALL COST
- 60: TOLL DENY TABLE
- 61: TOLL ALLOW TABLE
- 62: PBX ACCESS CODE
- 63: AUTHORIZATION CODE
- 64: OVERRIDE CODE
- 65: ASSIGN WILD CHARACTER
- 66: SYSTEM SPD DIAL TOLL RESTRICTION
- 67: ASSIGN SYSTEM SPEED DIAL
- 70: DIAL NUMBERING PLAN
- 71: SYSTEM KEY PROGRAMMING
- 72: STATION KEY PROGRAMMING
- 73: KEY TEST
- 80: IO PARAMETER
- 81: SMDR OPTION
- 83: CALL TRAFFIC REPORT
- 90: CUSTOMER USE MMC
- 91: SYSTEM VERSION
- 92: PORT STATUS
- 93: SELECTION LANGUAGE
- 94: HALT PROCESS
- 95: SYSTEM RESTART

2.2 Program Procedures (MMCs)

The following instructions for each MMC assume that you have already opened programming. To open System (Customer) Programming, the procedure is:

- 1. Press AUTO RDL then 20
- 2. Enter customer passcode (default = 1234)
- 3. Enter 1 to Enable

When you have finished programming in MMCs 00-95 and have other programming to do, press SPEAKER to exit the MMC but remain in programming mode and use one of the following methods:

- $i^{\,\varkappa}$ dial another MMC code directly and continue programming or
- i^x press LINE1 and LINE2 keys to scroll through all MMC codes. When the desired MMC code is displayed, press SPEAKER and continue programming.

Pressing AUTO RDL will always save changes and exit programming mode.

Description:

Used to lock or unlock stations; e.g. if you want to prohibit another user from using your station.

UNLOCK	Normal status
LOCKED1	Prohibits another user from making outside calls.
LOCKED2	Prohibits another user from dialling or receiving any calls.

Action

Display

201: UNLOCKED

202: UNLOCKED

1. Press AUTO RDL and dial 00

Using LINE1 or LINE2, select the station you 2. want(e.g. 202)

If you want to select all stations, press LINE1

- Press MUTE/DND or MSG to make selection 3. OR Using KEYPAD, dial 0 for UNLOCKED 1 for LOCKED1 2 for LOCKED2 (e.g.1)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

UNLOCKED

RELATED MMC

MMC 01 CHANGE USER PASSCODE

202: LOCKED1

STATION LOCK

CHANGE USER PASSCODE

Description:

Used to reset any keyset's passcode to its default value '1234' (for example, if the user has forgotten his/her passcode). This MMC cannot display station passcodes. Keyset users can set or change their individual passcodes. The passcode is used to lock or unlock the keyset and to access the walking class of service and DISA calls.

NOTE : The following features will not work with the Default Password. (Station lock, DISA calls, and walking class of service).

Action

Display

- 1. Press AUTO RDL and dial 01
- Using LINE1 or LINE2, select the station you want (e.g. 202)

If you want to select all stations, press LINE1

- 3. Press **HOLD** to reset selected station's passcode to default data (1234)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

1234

RELATED MMC

MMC 00 STATION LOCK MMC 46 ASSIGN DISA LINE 201: DEFAULT?

202: DEFAULT?

202: DEFAULT!

SET ANSWER MODE

Description:

Used to change the answer mode of stations. Each station can have its answer mode set to one of the following options.

- 1 RING Keyset will ring. Calls are answered by pressing SPEAKER or by lifting the handset.
- 2 AUTO ANSWER After giving a short attention tone, the keyset will automatically answer calls on the speakerphone. When a C.O. line is transferred to a keyset in Auto Answer mode, the keyset will ring until SPEAKER is pressed or the handset is lifted.
- 3 VOICE ANNOUNCE The keyset will not ring. After a short attention tone, the callers voice can be heard from the Loudspeaker. However the SPEAKER button or handset must be used to answer calls.

Action

Display

- 1. Press AUTO RDL and dial 10
- 2. Using **LINE1** or **LINE2**, select the station you want (e.g. 202)

If you want to select all stations, press LINE1

 Press MUTE/DND or MSG to make selection OR Using keypad, dial

1 for RING

- 2 for AUTO ANSWER
- or 3 for VOICE ANNOUNCE (e.g. 2)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

RING

RELATED MMC

NONE

201: RING

202: RING

202: AUTO ANSWER

CALL FORWARD

Description:

Used to program the call forward destination for other station users and set the time for FORWARD NO ANSWER. Each station can forward calls under the following conditions:

FORWARD ALL	All calls are forward to destination station
FORWARD BUSY	If the station is busy, calls are forward to destination.
FORWARD NO ANSWER	If the station doesn't answer in 'no answer' time, calls are forward to destination.
NO ANSWER TIME	Used to set no answer time. This time also used for External Call Forward.

Action

- 1. Press AUTO RDL and dial 11
- 2. Using **LINE1** or **LINE2**, select the station you want (e.g. 202)
- Press RDL or CONF to select the forward type described above(e.g. FORWARD NO ANSWER)
- 4. Enter the destination station (e.g. 203)

If you want to clear the data, press HOLD If your selection is NO ANSWER TIME, enter3-digit time in seconds (default = 015sec)

5. Press AUTO RDL to save and exit

DEFAULT DATA : FORWARD TYPE: NONE NO ANSWER TIME: 015 SEC

RELATED MMC : NONE

202: F ALL:

201: F ALL:

Display

202: F NOA:

202: F NOA:203

202: TIME: 015S

STATION ON & OFF

Description: This MMC allows the keyset user to set the following features.				
AUTO HOLD	Automatically places an existing C.O. call on hold if a trunk key(C.O. button)is pressed during that call.			
AUTO TIMER	Automatically starts stopwatch timer during a C.O. call.			
HEADSET USE	When ON, this feature disables the hook switch allowing a headset user to answer all calls by pressing the SPEAKER button.			
HOT KEYPAD	When ON, this feature allows the user to dial directory numbers without having to first lift the handset or press the SPEAKER button.			
KEY TONE	When ON, this feature allows the users to hear a slight tone when pressing the keypad on their set.			
RING PREFERENCE	When OFF, requires the user to press the fast flashing button to answer a ringing call after lifting the handset			
Action	Display			

Press AUTO RDL and dial 12 1.

201: A HOLD:OFF

202: A HOLD:OFF

2. Using LINE1 or LINE2, Select the station you want(e.g. 202)

If you want to select all stations, press LINE1

- Press RDL or CONF to select the keyset 3. features described above (e.g. HEADSET USE)
- 4. Pressing MUTE/DND or MSG to make selection OR Using KEYPAD, dial 0 for OFF or 1 for ON (e.g. 1)
- 5. Press AUTO RDL to save and exit

202: HEDSET:OFF

202: HEDSET:ON

DEFAULT DATA

AUTO HOLD	: OFF
AUTO TIMER	: ON
HEADSET	: OFF
HOT KEYPAD	: ON
KEY TONE	: ON
RING PREFERENCE	: ON

RELATED MMC

NONE

NX-828 HYBRID KEY SYSTEM

MMC 13

SET RING FREQUENCY

Description:

Used to select the ring frequency at each keyset. Four types of ring frequency are available. A short tone burst of the selection will be heard when the dial keypad is pressed.

Action

- 1. Press **AUTO RDL** and dial **13** Display shows current frequency
- 2. Using **RDL** or **CONF**, select the station you want (e.g. 202)

If you want to select all stations, press RDL

 Pressing MUTE/DND or MSG to makes election. A short burst tone of selection will be heard OR
 Using keyped dial

Using keypad, dial

- 1 for FREQUENCY 1 2 for FREQUENCY 2 3 for FREQUENCY 3 4 for FREQUENCY 4 (e.g. 2)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

FREQUENCY 1

RELATED MMC

NONE

201: FREQ. 1

Display

202: FREQ. 1

202: FREQ. 2

PROGRAMMING

PROGRAMMING

MMC 14

STATION NAME

Description:

Used to enter a 12-character name to identify an individual station. Names are written using the keypad. Each press of a key selects a character. Pressing another dial pad key will move the cursor to the next position.

For example if the station name is "SAM SMITH", press the number "7" four times to get the letter "S", and so on to enter the whole name. The characters programmed for each keypad are listed below.

dial count	1	2	3	4	5	6	7	8	9	0	*	#
1		A	D	G	J	М	Р	Т	W	:	?	
2	1	В	Е	Н	K	N	Q	U	X	•	&	[
3		С	F	Ι	L	0	R	V	Y	!	\$]
4		2	3	4	5	6	S	8	Z	0	*	#
5							7		9			

NOTE : When the character you want appears on the same dial pad key as the previous character, press CONF to move the cursor to the right.

Action

- 1. Press AUTO RDL and dial 14
- 2. Using **LINE1** or **LINE2**, select the station you want (e.g. 202)
- 3. Using the table above, enter the station name Use **CONF** to move cursor right (up to 12 digits)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

NX 828

RELATED MMC

NONE

Display

201:NX828

202:

202:SAM SMITH

NX-828 HYBRID KEY SYSTEM

MMC 15

DATE DISPLAY

De Us	scriptior ed to cha	1: ange the date dis	play mode of each station.	Date display modes are:
1	24	WESTERN	WED 21 JUN 17:37	
2	12	WESTERN	WED 21 JUN 05:37	
3	24	EASTERN	06/21 WED 17:37	
4	12	EASTERN	06/21 WED 05:37	
	SKP	-816 model keyse	ts display western mode on	ly.
Acti	ion			Display
1.	Press A	UTO RDL and di	al 15	201: 12 WESTERN

2. Using **LINE1** or **LINE2**, select the station you want (e.g. 202)

If you want to select all stations, press LINE1

- Pressing MUTE/DND or MSG to make selection OR Using KEYPAD, dial
 1 for 24 WESTERN
 2 for 12 WESTERN
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

12 WESTERN

RELATED MMC

MMC 55 CURRENT DATE AND TIME

202: 24 EASTERN

202: 12 WESTERN

KEY EXTENDER

Description: Used to view the programmable keys assigned to a keyset station. In addition, it allows the system administrator to assign key extenders to some keys that will make a general access feature key more specific. The feature keys that can have extenders are listed below. FEATURE KEY EXTENDER FWE External Call Forward(00~99)

SPD	Dial(00~99)
VAC	Vacant messages(01~20)
PAG	Page(0~5,*)
DOR	Door & Door Lock control (1~4)
EXC	Boss and Secretary(1~2)
DPC	Direct Pickup(station/trunk-line number)
GPC	Group Pickup(0~9)

Action

5.

1. Press AUTO RDL and dial 16

2. Using **LINE1** or **LINE2**, select the station you want (e.g. 202)

- 3. Press **RDL** or **CONF** to select the button (e.g. 22) OR Press the button you want to program extender (if the button is programmed).
- 4. Select the extender according to the table above. Previous extenders will be overwritten

Press AUTO RDL to save and exit

If you want to clear the previous extender, press HOLD

202: 22:PAG2

201 01:701:

202 01:701

202 22:PAG1

PROGRAMMING

Display

DEFAULT DATA

EACH KEY EXTENDER IS EQUAL TO STATION KEY PROGRAMMING (MMC 72) DATA

RELATED MMC

MMC 71 SYSTEM KEY PROGRAMMING MMC 72 STATION KEY PROGRAMMING

STATION SPEED DIAL

Description:

Used to program the personal dial locations assigned to a station. Each station may have up to 20 locations numbered 00-19. Each dial number consists of a trunk or trunk group access code followed by a separator and up to 30 digits to be dialled. If you dial a valid trunk or trunk group access number, it will automatically insert the separator (:).

Action

- 1. Press AUTO RDL and dial 17
- 2. Using **LINE1** or **LINE2**, select the station you want (e.g. 202)
- 3. Press **RDL** or **CONF** to select the entry.
 - OR Dial the entry number(e.g.17)

If the data is longer than 13 digits, press **ALM/SD** to verify the data. Display shows the entry moving left one digit

4. Enter station Number or telephone number or trunk access code(e.g.9) followed by the number to be dialed(e.g. 1234567)

OR Press **HOLD** to clear an entry

If you want to make a digit invisible, press **MUTE** then digit then **MUTE** again (e.g. 9 + 123[**MUTE**]4 [**MUTE**]567). The digit (4 in this example) will be displayed '¢Ë'.

5. Press AUTO RDL to save and exit

DEFAULT DATA

NONE

RELATED MMC

NONE

201: STN SPD:

Display

202: STN SPD:

17:9:4602831

17:9:1234567

17:9:123¢Ë567

OPEN PROGRAMMING

Description:

Used to open (enable) or close (disable) customer- or technician-level programming. If programming is not opened and an attempt is made to access a system MMC, the error message [ACCESS DENIED] will be displayed. A 4-digit customer passcode is required to access customer-level programming allowed in MMC 90 (Customer Use MMC). A 4-digit technician's passcode is required to open all MMCs.

Action

2. Enter passcode

programming

1. Press AUTO RDL and dial 20

PASSCODE:

Display

PASSCODE:****

 Press MUTE/DND or MSG to select DISABLE or ENABLE OR Dial 0 for DISABLE or 1 for ENABLE (e.g. 1)

Default passcodes are 1234 for customer-level Programming and 4321 for technician-level

4. Press AUTO RDL to save and exit

DEFAULT DATA

DISABLE

RELATED MMC

CUSTOMER PROGRAMMING : Refer to MMC 90 TECHNICIAN LEVEL PROGRAMMING : ALL MMCs _ . _ _ _ _ _ .

ENABLE

CHANGE PASSCODE

Description:

Used to change the passcode allowing access to MMC 20 (Open Programming) from its current value.

NOTE:

 i^{α} The passcode is four digits long. Each digit can be 0-9. The current (old) passcode is required for this MMC.

 i^{α} Allows the technician to reset the customer passcode to default value '1234' by pressing HOLD button.

Action

Display

NEW CODE:

NEW CODE:****

1. Press AUTO RDL and dial 21

 Enter new passcode via keypad (max four digits) To change customer passcode, first enable customer Programming To change technician passcode, first enable technician Programming

Display shows

3. Reenter new passcode via KEYPAD

If re-entered passcode is correct, display will show 'SUCCESS'

OR

If it is incorrect, display will show 'ERROR' is

4. Press AUTO RDL to save and exit

DEFAULT DATA

CUSTOMER PASSCODE: 1234 TECHNICIAN PASSCODE: 4321

RELATED MMC

MMC 20 OPEN PROGRAMMING

REENTER:

REENTER:****

SUCCESS

ERROR

CUSTOMER ON/OFF

Description: Used to allow the	ne system administrator to set the following keyset features:
BGM	When ON, allows the user to hear background music.
DND	When ON, allows the user to set the Do Not Disturb
	feature.
DOOR	When ON, allows the user to open the door.
HUNT	When ON, the intercom call will be forwarded to the next station
	of the station group to which the station belongs.
MIKE	When ON, the station can activate the speakerphone call.
PAGE USE	When ON, the station can page.
PAGE RECEIVE	When ON, the station can receive paging announcements.
SMDR	When OFF, the information related to the station will not be
	printed on the SMDR report.

Action

Display

- 1. Press AUTO RDL and dial 22
- Using LINE1 or LINE2, select the station you want (e.g. 202)

If you want to select all stations, press LINE1

- 3. Press **RDL** or **CONF** to select the keyset feature (described above, e.g. DND)
- Press MUTE/DND or MSG to select data OR
 Using the KEYPAD, dial
 0 for OFF
 or 1 for ON
- 5. Press AUTO RDL to save and exit

202: BGM: ON

201: BGM: ON

202: DND: ON

202: DND: OFF

DEFAULT DATA

BGM	: ON
DND	: ON
DOOR	: ON
HUNT	: OFF
MIKE	: ON
PAGE USE	: ON
PAGE RECEIVE	: ON
SMDR	: ON

RELATED MMC

HUNT : MMC 35 ASSIGN STATION GROUP PAGE USE, PAGE RECEIVE : MMC 23 PAGE ZONE SMDR : MMC 81 SMDR OPTION

Description:

Used to assign a keyset to any of the four internal paging zones and no zone.

NOTE : Number 5 makes all external paging, number 0 makes all internal paging and * makes all internal and external paging.

Action

1. Press AUTO RDL and dial 23

1 for ZONE 1 2 for ZONE 2 3 for ZONE 3

2. Using **LINE1** or **LINE2**, select the station you want(e.g. 202)

If you want to select all stations, press LINE1

 Pressing MUTE/DND or MSG to make selection OR Using KEYPAD, dial
 0 for NO ZONE

or 4 for ZONE 4 (e.g. ZONE 1)

Press AUTO RDL to save and exit

202: ZONE1

DEFAULT DATA

4.

NO ZONE

RELATED MMC

MMC 22 CUSTOMER ON/OFF (PAGE USE / PAGE RECEIVE)

PROGRAMMING

201: NO ZONE 202: NO ZONE

Display

PAGE ZONE

ASSIGN BARGE-IN

This MMC is used to set the type of barge-in permitted at a particular station. After the barge-in type is set, the barge-in class can be set. The barge-in class allows or disallows the user to barge-in on another station.

OPTION	BARGE-IN TYPE	DESCRIPTION
0	NO BARGE-IN	Barge-in feature is unavailable regardless of a station's barge-in status.
1	WITH TONE	Barge-in will produce an intrusion tone and display at the barged-in on station.
2	WITHOUT TONE	Barge-in is allowed. There is no barge-in tone and no display at the barged-in station, and the barge in station will be muted
		barge-in station will be muted.
OPTION	BARGE-IN CLASS	DESCRIPTION
OPTION	BARGE-IN CLASS	Description You cannot barge-in. / Nobody can barge-in on you.
OPTION 00 01	BARGE-IN CLASS NN NY	DESCRIPTION You cannot barge-in. / Nobody can barge-in on you. You cannot barge-in. / Others can barge-in on you.
OPTION 00 01 10	BARGE-IN CLASS NN NY YN	DescriptionYou cannot barge-in. / Nobody can barge-in on you.You cannot barge-in. / Others can barge-in on you.You can barge-in. / Nobody can barge-in on you.

PROCEDURE

- 1. Press AUTO RDL and dial 24
- Pressing MUTE/DND or MSG to select barge-in type OR Using KEYPAD, dial 0 for NO BARGE IN 1 for WITH TONE
 - or 2 for WITHOUT TONE
- Using LINE1 or LINE2, select a station (e.g. 202) To select all stations, press LINE1 first

DISPLAY

NO BARGE IN

WITH TONE

202: NN

202: YN

4. Using KEYPAD, dial
00 for NN
01 for NY
10 for YN
or 11 for YY
You can select barge-in closs (NN, NY, YN, YY)

5. Press AUTO RDL to save and exit

DEFAULT DATA

BARGE-IN TYPE : NO BARGE IN BARGE-IN CLASS : NN

RELATED MMC

NONE

PROGRAMMING

MMC 25

HOT/WARM LINE

Description:

Used to assign a hot line/warm line destination for each station. The destination may be one of the following:

Station Number Station Group Number Trunk Number Trunk Group Number 16 plus Speed Dial Number(00~99) (16 is SPD ID number described in MMC 70)

The Warm Line Delay Time also can be assigned by this MMC.

Action

1.

Display

201: : 0SEC

201: 233: 0SEC

- 2. Using KEYPAD, select the destination(e.g. 233)
- 3. Enter the Warm Line Delay Time (0 9 sec) (e.g. 5)

201: 233: 5SEC

4. Press AUTO RDL to save and exit

Press AUTO RDL and dial 25

DEFAULT DATA

DESTINATION : NONE WARM LINE DELAY TIME: 0 SEC

RELATED MMC

NONE

ALARM REMINDER

Display

Description:

Used to allow the system administrator or technician to set or change the alarm clock/appointment reminder feature for any station. Three alarms may be set for each station and each alarm may be defined as a DAY alarm or as a DAILY alarm. The DAY alarm is automatically cancelled after it rings, while the DAILY alarm rings every day at the same time.

Action

1. Press AUTO RDL and dial 26

Using **LINE1** or **LINE2**, select the station you want(e.g. 202)

- Press RDL or CONF to select the alarm number (1~3)(e.g. 2)
- Dial the alarm time. The time is entered in 24hour format (e.g. 2030 is 8:30 p.m.) To clear alarm data, press HOLD
- 4. Press **MUTE/DND** or **MSG** to select alarm mode (e.g. DAILY)
- 5. Press AUTO RDL to save and exit

DEFAULT DATA

ALARM1	:	HHMM	DAY
ALARM2	:	HHMM	DAY
ALARM3	:	HHMM	DAY

RELATED MMC

MMC 55 CURRENT DATE AND TIME

201 A1:HHMM:DAY

202 A1:HHMM:DAY

202 A2:HHMM:DAY

202 A2:2030:DAY

202 A2:2030:DALY

VACANT MESSAGE

Description:

The system provides up to 20 vacant messages that can be selected by any display keyset user. Of these, 10 messages (01-10) are pre-programmed and the other 10 messages (11-20) can be customised using this MMC. Once activated, the selected message will appear in the display of the calling station.

 NO.	MESSAGE
01	IN A MEETING
02	OUT ON A CALL
03	OUT TO LUNCH
04	LEAVE A MESSAGE
05	PAGE ME
06	OUT OF TOWN
07	IN TOMORROW
08	RETURN AFTERNOON
09	ON VACATION
10	GONE HOME

Action

Display

- 1. Press AUTO RDL and dial 27
- 2. Using LINE1 or LINE2, select the desired message number (11-20) (e.g. 12)
- 3. Enter the vacant message (refer to MMC 14 for details of letter entry proceedure)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

NONE

RELATED MMC

NONE

MSG11:

MSG12:

BUSINESS TRIP

Description: Used to assign t There are four d	e incoming and outgoing status of a selected station.	
0	No Discrimination	
1	Out Only	
2	In Only	
3	Both	

Action

Display

1. Press AUTO RDL and dial 28

201: NO DISC

201: NO DISC

2. Using **LINE1** or **LINE2**, select the station you want (e.g. 202)

If you want to select all stations, press LINE1

3. Press **MUTE/DND** or **MSG** key to select discrimination type as above

4. Press AUTO RDL to save and exit

DEFAULT DATA

NO DISC

RELATED MMC

MMC	42	TRUNK	ON/OF	F
MMC	50	SYSTEM	TME	RS
MMC	46	ASSIGN	DISA	LINE

PROGRAMMING

202: BOTH

CALL DISC

STATION TOLL CLASS

Description:

Used to assign a day and night class of service to each station. There are six different classes of service.

DIAL DIGIT	TOLL CLASS	DESCRIPTIONS
1	А	No restriction
2	В	Follow allow/deny table for each class
3	С	Follow allow/deny table for each class
4	D	Follow allow/deny table for each class
5	Е	Follow allow/deny table for each class
6	F	Intercom call only

Action

- 1. Press AUTO RDL and dial 30
- 2. Using LINE1 or LINE2, select the station you want (e.g. 202)

If you want to select all stations, press LINE1

- Dial number 1-6 for day class and then for night class (for class A-F as above) (e.g. dial 2 and 3 for B and C)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

DAY CLASS : A NIGHT CLASS : A

RELATED MMC

MMC 60 TOLL DENY TABLE MMC 61 TOLL ALLOW TABLE

Display

201: AA

202: AA

202: BC

Description:

EXT/TRK USE

(e.g. NY means disallow dialling out but allow answering of incoming calls). DIAL DIGIT TRK USE DESCRIPTION NN You cannot either dial and answer 00 NY 01 You cannot dial but can answer You can dial but cannot answer YN 10 11 YY You can both dial and answer Action Display 1. Press AUTO RDL and dial 31 201: USE 701 :YY 2. Using **LINE1** or **LINE2**, Select the station you 202: USE 701 :YY want (e.g. 202) If you want to select all stations, press LINE1 202: USE 702 :YY 3. Select the trunk number by pressing **RDL** or **CONF** (e.g. 702) If you want to select all trunks, press RDL 4. Using keypad, dial 202: USE 702 :NY 0 (N) to deny action or 1 (Y) to allow action

Used to allow trunks on a per-station basis the ability to answer incoming calls, to dial out or to do both. These abilities are displayed as Y or N for each action

5. Press AUTO RDL to save and exit

(Two digits must be dialled: first digit for dialling out and second for answering incoming calls, e.g. 01)

DEFAULT DATA

ALL TRUNK: YY

RELATED MMC

NONE

Description:

Used to allow/disallow station intercom calls.

Action

- 1. Press AUTO RDL and dial 32
- 2. Using **LINE1** or **LINE2**, select the station you want (e.g. 202)

If you want to select all stations, press LINE1

3. Press **RDL** or **CONF** to select call station (e.g. ALL)

If you want to select all stations, press RDL

 Pressing MUTE/DND or MSG to select allow/ disallow option(e.g. disallow all intercom calls) OR Using KEYPAD, dial

0(N) for disallow intercom calls 1(Y) for allow intercom calls

If you select N, intercom calls are not possible but calling the operator is possible

5. Press AUTO RDL to save and exit.

DEFAULT DATA

CALL ALL : Y

RELATED MMC

NONE

PROGRAMMING

INTERCOM USE

202: CALL ALL:N

202: CALL ALL:?

Display

201: CALL 202:Y

202: CALL 201:Y

ASSIGN DOOR RING

Display

Description:

Used to designate which devices (station or station group) will ring when a door box button is pressed.

Action

- 1. Press AUTO RDL and dial 33 Display shows designated stations or station groups for DOOR1(day and night)
- 2. Press LINE1 or LINE2 to select DOOR 1 or DOOR 2 (e.g. DOOR 2)
- 3. Enter new DAY/NIGHT selection via keypad (e.g. 501 for day, and 201 for night)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

DOOR1	:	DAY:500	NIGHT:500
DOOR2	:	DAY:500	NIGHT:500

RELATED MMC

MMC 35 ASSIGN STATION GROUP

DOR2 D:500 N:500

DOR1 D:500 N:500

DOR2 D:501 N:201

PROGRAMMING

NX-828 HYBRID KEY SYSTEM

MMC 34

ASSIGN PICKUP GROUP

Description:

Used to allow the assignment of stations into call pickup groups. There is a maximum of 10 pickup groups (0-9). An unlimited number of members can belong to each group. Stations can be in only one pickup group at any given time.

Action

1. Press AUTO RDL and dial 34

Display shows the first member of pickup group 0

- 2. Using **LINE1** or **LINE2**, select the pickup group number (e.g. GPC1)
- 3. Dial station number (e.g. 203)

If dialled number is a member of another pickup group, the station number will be removed from the previous group automatically

The Dialled number overwrites any previous number

Press HOLD to clear previous entries

4. Press AUTO RDL to save and exit

DEFAULT DATA

[GPC0] : All stations [GPC1]i-[GPC9] : NONE

RELATED MMC

NONE

[GPC1] 01:

[GPC0] 01:220

Display

[GPC1] 01:203
ASSIGN STATION GROUP

Description:

Used to assign members of a station group. There are several options that can be selected for ringing, overflow, group transfer and overflow destination, group types. There is a maximum of twenty (20) station groups.

OPTIONS	DISPLAY	RANGE	
Ring mode	RING		
Overflow time	OVER	000 i ⁻ 250 sec	
Group transfer time	TRSF	000 i ⁻ 250 sec	
Overflow port	NEXT		
Group types	TYPE		
RING MODES	DESCRIPTION		
1 SEQUENTIAL	The first idle station first is busy, the ne	n listed in the group will n ext idle station will ring.	ring. If the
2 DISTRIBUTE	The first call will rin The next call will rin	g the first station listed ir ng the next station listed	n the group. in the group.
3 CONDITION	All the non busy st	ations listed in the group	will ring.
4 UNCONDITION	All the stations liste will receive off-hook	d in the group will ring. ring.	Busy stations
GROUP TYPES			
1 NORMAL GRO)UP		

2 VMAA GROUP

Action

1. Press AUTO RDL and dial 35

Display shows ring mode of group 500 (operator group)

2. Using **LINE1** or **LINE2**, select the station group number(500;-519).

Display

500: RING :DIST

501: RING: DIST

NX-8	28 HYBRID KEY SYSTEM	PROGRAMMING
	MMC 35	
3.	Pressing RDL or CONF , select the options(RING, OVER,TRSF,NEXT,TYPE or MEMBER) Go to 4a - 4f depending on selection	500: OVER: 030S
4a.	To select RING mode, press MUTE/DND or MSG OR Dial 1 for SEQUENTIAL 2 for DISTRIBUTE	500: RING: UNCO
4b.	To change the OVERFLOW TIME, dial 3 digits	500: OVER: 030S
4c	To change the GROUP TRSF TIME, dial 3 digits	500: TRSF: 045S
4d	To assign the overflow port (NEXT), enter the station or station group number (e.g. 501)	500: NEXT: 501
4e	Press MUTE/DND or MSG to select the station group TYPE (e.g. NORMAL) OR Using keypad, dial 1 for NORMAL GROUP 2 for VMAA GROUP	500: TYPE:NORMAL
4f	To assign MEMBER of a station group, enter the station number (e.g. 201)	500: MEM1:201
5.	Press AUTO RDL to save and exit	
DE	FAULT DATA	

	. 0101
OVERFLOW	: 030 SEC
TRANSFER TIME	: 045 SEC
TYPE	: NORMAL GROUP
MEMBER	: 500 GROUP : 201
	OTHER GROUP : NONE

RELATED MMC

MMC 22 CUSTOMER ON/OFF

PROGRAMMING

MMC 36

ASSIGN BOSS/SCRETARY

Description:

Used to assign BOSS keysets to SECRETARY keysets. One SECRETARY station may have up to two (2) BOSS stations.

Action

Display

S201 1:

- 1. Press AUTO RDL and dial 36
- Using LINE1 or LINE2, select the SECRETARY station you want(e.g. 202) Display shows the BOSS stations
- 3. Enter the BOSS stations (e.g. BOSS1: 220, BOSS2: 230)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

BOSS1:NONE BOSS2:NONE

RELATED MMC

NONE

S202 1: 2:

2:

S202 1:220 2:230

ASSIGN ADD-ON MODULE

Description:

Used to designate to which station an add-on module (AOM) is assigned.

Action

1. Press **AUTO RDL** and dial **37** Display shows the first AOM port

If there is no AOM port, display shows

2. Press LINE1 or LINE2, select the AOM port (e.g. 206)

If you want to clear the previous entry, press **HOLD**

- 3. Enter master station number (e.g. 204)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

NONE

RELATED MMC

NONE

Display

205: MASTER:

AOM NOT EXIST

206: MASTER:

206: MASTER:204

PROGRAMMING

MMC 38

SLT DIALLING TYPE

Description: Used to define the type of phone connected to each SLT port for dialling purposes. Keysets are not affected by this MMC. There are two dialling types.						
DIA	ALLING TYPES					
	1 DTMF Dual Tone Multi Fre	equency type				
	2 PULSE Dial Pulse type					
Acti	on	Display				
1.	Press AUTO RDL and dial 38	217: DTMF				
	Display shows the SLT port(e.g. 217)					
	If there is no SLT port, display shows	SLT NOT EXIST				
2.	Using LINE1 or LINE2 , select the SLT pumber (e.g. 218)	218: DTMF				
3.	Press MUTE/DND or MSG to select the	SLT 218: PULSE				
	OR Using KEYPAD, dial 1 for DTMF or 2 for PULSE					
4.	Press AUTO RDL to save and exit					

DEFAULT DATA

DTMF

RELATED MMC

NONE

Description:

Used to assign SLT ports that will be used for data transmission.

- VOICE The station will be used for voice communication. All intrusion and warning tones will be heard during conversation.
- DATA The station will be used for data communication. No intrusion and warning tones will interfere with data transmission

Action

- 1. Press **AUTO RDL** and dial **39** Display shows (e.g. 209 is SLT port)
- 2. Using LINE1 or LINE2, select the SLT port number (e.g. 210)

If you want to select all SLT ports, press LINE1

 Press MUTE/DND or MSG to select VOICE or DATA (the port connected to a peripheral device, such as Fax, is set to DATA line) OR Dial 1 for VOICE or 2 for DATA

(e.g. 2)

4. Press AUTO RDL to save and exit

DEFAULT DATA

VOICE LINE

RELATED MMC

NONE

209: VOICE

Display

210: VOICE

210: DATA

DATA LINE

Description:

Used to select the mode of the C.O. line. If PBX mode is chosen, the PBX access code can be recognised, allowing more complete toll restriction. This mode is assigned on a per-trunk basis.

Action

- 1. Press AUTO RDL and dial 40
- 2. Using **LINE1** or **LINE2**, select the trunk number you want(e.g. 702)

If you want select all trunk lines, press LINE1

- Press MUTE/DND or MSG to set the trunk
 C.O. or PBX line
 OR
 Using KEYPAD, dial
 1 for C.O line
 or 2 for PBX line(e.g. PBX line)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

C.O LINE

RELATED MMC

NONE

702: C.O

702: PBX

C.O. PBX LINE

Display

701: C.O

PROGRAMMING

TRUNK DIALLING TYPE

Description:

Used to determine the dialling type of each C.O. line. There are two options: Dual Tone Multi Frequency (DTMF) and Dial Pulse (PULSE).

Action

- 1. Press AUTO RDL and dial 41
- 2. Using **LINE1** or **LINE2**, select the trunk number you want (e.g. 702)

If you want to select all trunks, press LINE1

3. Press **MUTE/DND** or **MSG** to select the trunk dial type

OR Using KEYPAD, dial

- **1 for DTMF** or **2 for PULSE** (e.g. PULSE)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

DTMF

RELATED MMC

MMC 53 TRUNK-WIDE TIMERS MMC 54 MAKE/BREAK RATIO 702: DTMF

702: PULSE

PROGRAMMING

Display

701: DTMF

TRUNK ON/OFF

Description: Used to assign several options on a per-trunk basis:								
	OPTIONS DESCRIPTION							
1A2 EMULATIONTrunk override callTRUNK FORWARDAllows trunk to be forwarded (Refer to APPENDIX D)RING OVER PAGEAllows ring over external pageTOLL CHECK FREEC.O. lines to follow or bypass toll restrictionVOICE MSGVoice announcement of DISA lineTRK DISCEnable Trunk disconnection								
Ac	tion		Dispaly					
1.	Press AUTO RDL and	dial 42	701:1A2 EMUL:OFF					
2.	Using LINE1 or LINE2 want (e.g. 702)	702:1A2 EMUL: OFF						
3.	Using RDL or CONF , (as described above, e	select the option you want e.g. RING OVER PAGE)	702:PAGE RING:OFF					
4.	Press MUTE/DND or N OR	ISG to select ON or OFF.	702:PAGE RING:ON					
	Using KEYPAD, dial 0 for OFF or 1 for ON							
5.	Press AUTO RDL to s	ave and exit						

DEFAULT DATA

1A2 EMULATION	: OFF
TRUNK FORWARD	: OFF
RING OVER PAGE	: OFF
TOLL CHECK FREE	: OFF
VOICE MSG	: OFF
TRK DISC	: OFF

RELATED MMC

TRUNK FORWARD	: MMC 11 CALL FORWARD
VOICE MSG	: MMC 46 ASSIGN DISA LINE
TRK DISC	: MMC 28 CALL DISC
	MMC 50 STSYEM TIMERS

ASSIGN TRUNK RING

Display

701

Description:

Used to enable ringing to a specific station or to a group of stations when incoming calls are received. This MMC controls both day and night locations.

Action

- 1. Press AUTO RDL and dial 43
- 2. Using **LINE1** or **LINE2**, select the trunk you want (e.g. 702)

If you want to select all trunks, press LINE1

- 3. Dial the station or station group number that will be ringing (e.g. 500 for Day, 201 for Night)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

ALL TRUNKS DAY:500 NIGHT:500

RELATED MMC

MMC 35 ASSIGN STATION GROUP MMC 56 ASSIGN AUTO NIGHT TIME

D:500 N:500

702 D:500 N:500

702 D:500 N:201

Description:

Used to allow a 12-character name to identify an individual trunk. Names are written using the keypad. Each press of a key will select a character. For example, to select 'A' press key number 2 once (twice for 'B' and so on). Press the desired key to move the cursor to the next position.

dial count	1	2	3	4	5	6	7	8	9	0	*	#
1		А	D	G	J	М	Р	Т	W	:	?	
2	1	В	Е	н	К	Ν	Q	U	Х	-	&	[
3		С	F	I	L	0	R	V	Y	!	\$]
4		2	3	4	5	6	S	8	Z	0	*	#
5							7		9			

NOTE : When the character you want appears on the same dial pad key as the previous character, press CONF to move the cursor to the right. A space can be entered using these keys.

Action

Display

- 1. Press AUTO RDL and dial 44
- 2. Press **LINE1** or **LINE2** to select the trunk you want (e.g. 702)
- 3. Enter the trunk name using above table (e.g. SEOUL LINE)

701:NX828

702:

702: SEOUL LINE

4. Press AUTO RDL to save and exit

DEFAULT DATA

NX-828

RELATED MMC

NONE

TRUNK NAME

TRUNK GROUP

Description:

Used to set free trunk selection type and to allow assignment to a specific trunk group or to several trunk groups. There are eleven (11) trunk groups, 9 and 80-89, and three modes of selecting free trunk line in the group.

MODE	DESCRIPTION
DISTRIBUTE	Searches the trunk group in circular order. Each time the group is accessed, the next available trunk in the group is selected.
HIGH TO LOW	Searches the trunk group from last trunk to the first trunk in the group. If the trunk is busy, the previous available trunk in the group is selected.
LOW TO HIGH	Searches the trunk group. If the first trunk in the group is busy, the next one is selected

Action

Dispaly

- 1. Press **AUTO RDL** and dial **45** Display shows the free trunk selection mode
- Press MUTE/DND or MSG to select the free trunk selection mode OR Using KEYPAD, dial
 - 1 for DISTRIBUTE
 - 2 for High to Low
 - 2 IOI FIGILIO LOW
 - or **3 for Low to High.** (e.g. 2)
- 3. Using **LINE1** or **LINE2**, to select the trunk group (e.g. GRP80)
- 4. Press **RDL** or **CONF** to scroll the members of the group (e.g. 02)
- 5. Enter a valid trunk number (e.g. 709)

GRP80 01:

GRP80 02:

GRP80 02:709

6. Press AUTO RDL to save and exit

MODE: HIGH TO LOW

MODE: DISTRIBUTE

DEFAULT DATA

GROUP 9 : ALL TRUNK LINES GROUP 80~89 : NONE

RELATED MMC

NONE

ASSIGN DISA LINE

Description:

This MMC is used to allow the system the ability to have Direct Inward System Access (DISA). There are four 4 DISA. If a trunk is set to DISA, the voice announcement feature may be used when the VOICE MSG option is enabled in MMC 42 TRUNK ON/OFF.

OPTIONS

- 0 NO DISA LINE
- 1 DISA IN NIGHT MODE
- In night mode, DISA is available In day mode, DISA is available

DESCRIPTION

No DISA service

- 2 DISA IN DAY MODE
- 3 DISA BOTH NIGHT AND DAY

Action

- 1. Press **AUTO RDL** and dial **46** Display shows
- 2. Using **LINE** or **LINE2** select the trunk you want (e.g. 702)

If you want select all trunks, press LINE1

3. Press MUTE/DND or MSG to select OR

Using KEYPAD, dial

- 0 for NO DISA LINE
 - 1 for DISA IN NIGHT MODE
- 2 for DISA IN DAY MODE
- 3 for DISA BOTH NIGHT AND DAY
- (e.g. 1)

4. Press AUTO RDL to save and exit

DEFAULT DATA

NO DISA

RELATED MMC

MMC 28 CALL DISK MMC 42 TRUNK ON/OFF MMC 50 SYSTEM TIMERS Display

In day and night mode, DISA is available

701: NO DISA

702: NO DISA

702: NIGHT DISA

Description:

Used to allow the trunk to check the Metering Pulse. If you set the MPD option to 'ON' the system must have an MPD card.

OPTIONS		DESCRIPTION			
0	NO MPD	No service			
1	MPD ON	MPD is available			

Action

Display

- 1. Press AUTO RDL and dial 47
- 2. Press LINE1 or LINE2, to select the trunk you want(e.g. 702)

If you want to select all trunks, press LINE1

- 3. Press MUTE/DND or MSG to make selection OR Using KEYPAD, dial 0 for NO MPD or 1 for MPD ON (e.g. 1)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

NO MPD

RELATED MMC

MMC 57 CALL COST

702: MPD ON

PROGRAMMING

701: NO MPD

702: NO MPD

ASSIGN MPD

SYSTEM TIMERS

Display

Description:

Used to adjust individual timers as necessary. All available timers are described in the Table of Timers and Values, below.

NOTE: Display shows second as S, millisecond as MS, and minute as MI.

Action

- 1. Press AUTO RDL and dial 50
- 2. Press LINE1 or LINE2 to select timer (e.g. ALM R DUR)
- 3. Enter new value using KEYPAD(e.g. 005)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

See TABLE OF TIMERS AND VALUES

RELATED MMC

NONE

TABLE OF TIMERS AND VALUES

DISPLAY	DESCRIPTION	DEFAULT	RANGE
ALM R INT (Alarm ring interval)	Controls the time between ring attempts at a station when alarm reminder is set.	025S	1-250S
ALM R DUR (Alarm ring duration)	Controls the length of ring cycle duration when alarm reminder is set at a station.	010S	1-250S
ARDL INT (Auto Redial interval)	Controls the time between attempts after Auto Redial is set on a station.	045S	1-250S
ARDL RELS (Auto Redial release time)	Controls the duration of a Ring No Answer condition on an auto redial number dialled before auto redial is automatically cancelled.	045S	1-250MI
CBACK NOA (Callback no answer time)	Controls the time before the callback is automatically cancelled when a callback detects Ring No Answer.	030S	100-2500MS
CO CO DIS (CO to CO disconnect time)	Monitors the duration of an unsupervised conference, external call; forward or DISA call upon expiring, both trunks are disconnected.	010MI	1-250S
DISA FDG	First digit want time in DISA call	025S	1-250S
DISA IDG	Inter digit duration in DISA call	025S	1-250S
DISA RING	Controls the duration of ringing at the DISA called station before automatically transferred to the operator group.	030s	1-250S
DOOR RELS (Door release time)	Controls the duration of time before the door lock relay is activated.	1500MS	100-2500MS
DOR R OFF (Door Ring OFF duration)	Controls the duration of ringing at the door ring destination before automatically cancelling.	030S	1-250S

ALM R DUR: 010SEC

ALM R INT :025SEC

ALM R DUR: 005SEC

PROGRAMMING

NX-828 HYBRID KEY SYSTEM

PROGRAMMING

MMC 50

DISPLAY	DESCRIPTION	DEFAULT	RANGE
FIRST DGT (First Digit wait time)	Controls how long the system will wait for dialling to begin before dropping the dial tone and returning the user to error tone.	025S	1-250S
HOOK OFF (Hook OFF time)	Controls the time before dial tone is sent to a single line station.	0200MS	100-2500MS
INTER DGT (Inter Digit duration)	Controls the grace period between dialling valid digits and dropping the call and returning the user to error tone.	025S	1-250S
MMC OUT (MMC session time)	Controls the grace period between programming actions while in programming session, and automatically returns system to secure programming status.	030S	10-250S
OFF R INT (Off hook Ring Interval)	Controls the time between ring bursts to a user who has a camped-on call.	015S	1-250S
PAGE MAX (Page duration)	Controls the duration of a page announcement.	020S	1-250S
RCAL DISC (Recall Disconnect time)	This is the time an attendant recall will ring before being disconnected.	002MI	1-250MI
RCAL RING (Recall Ring length)	This is the length of time a transfer recall will ring at a station before recalling the operator.	015S	0-250S
RCAL WAIT (Recall Waiting time)	If a transferred call is recalled at the transferring station and the station is busy, this timer will expire and transfer the call to the operator. This only applies to trunk calls.	015S	0-250S
RCAL HOLD (Recall Hold time)	Determines the time calls can be left on hold before recalling back to the holding station.	045S	0-250S
RCAL TRSF (Recall Transfer time)	Determines the time that transferred calls ring before recalling.	045S	0-250S
SLT F MIN (minimum SLT flash time)	Monitors the duration of a hookswitch flash to ensure that the flash is valid and not a line noise or an accidental hookswitch bounce. It is the minimum time for a single line station.	0100MS	10-2500MS
SLT F MAX (maximum SLT flash time)	Maximum time of hookswitch flash of single line station.	0400MS	10-2500MS
SMDR PULS (SMDR start time for rotary dialing)	this grace period timer starts SMDR recording for pulse (rotary) dialing and controls the LCD duration timer on the keysets.	0305	1~250\$
SMDR DTMF (SMDR start time for touchtone dialing)	this grace period timers starts SMDR recording for DTMF (Touch Tone) dialing and controls the LCD duration timer on the keysets.	015S	1~250S
TRK DISC	controls the duration of an outside call	030MIN	1~250S

TONE/RING CADENCE

Description:

Provides the ability to customise the tone cadence on a system-wide basis. There are eight (8) tone cadences available. **Please call Technical Support before changing any cadences as some systems may require default settings.**

Action

- 1. Press AUTO RDL and dial 51
- 2. Press LINE1 or LINE2 to select the tone you want

Press **MUTE/DND** or **MSG** to select dial tone control (continuous tone or interrupt tone) (e.g. interrupt tone)

Default data of interrupt tone is 1000 0250 1000 0250 msec

 Dial new interrupt time value, ON/OFF/ON/OFF in intervals of 50 msec. Each value is 3 digits and Represents a unit of 10 msec: e.g. 100/030/100/03 0 is 1000 msec (100x10) for ON and 300 msec (0 30x10) for OFF

4. Press AUTO RDL to save and exit

DEFAULT DATA

TONE NAME

DIAL TONE	(DT)	CONTINUO	US TO	DNE C	НЕСК
RING BACK TONE	(RBT)	1000 2000	1000	2000	MSEC
BUSY TONE	(BST)	0500 0500	0500	0500	MSEC
TRSF TONE	(TT)	0200 0200	0200	0200	MSEC
ERROR TONE	(ERT)	0500 0250	0500	0250	MSEC
CO LINE RING	(COR)	1000 3000	1000	3000	MSEC
STATION RING	(STR)	0400 0200	0400	3000	MSEC

DISPLAY

RELATED MMC

NONE

DT: CONTINUOUS

Display

RBT: 100200100200

DT: 100025100025

RBT: 100030100030

DATA

SYSTEM-WIDE COUNTER

Description:

Used to set the values of the system counters described below.

ALM COUNTER (ALARM REMINDER COUNTER) The number of times that an alarm reminder will ring a station before cancelling (range: 1-99).

ARDL COUNTER (AUTO REDIAL COUNTER) The number of times the system will redial an outside number after the auto redial feature has been activated.

Action

Display

1. Press AUTO RDL and dial 52

ALM COUNTER: 03

ARDL COUNTER: 10

- 2. Press **LINE1 or LINE2** to select the counter you want (e.g. ARDL)
- 3. Dial new data (two digit e.g. 05)

ARDL COUNTER: 05

4. Press AUTO RDL to save and exit

DEFAULT DATA

ALM COUNTER	:	3
ARDL COUNTER	:	10

RELATED MMC

NONE

PROGRAMMING

TRUNK-WIDE TIMERS

Description:

Allows trunk timer values to be changed for all trunks. It is not advisable to change these values, with the exception of trunk flash time, without assistance from Technical Support.

Ten (10) options are available and are listed below.

DISPLAY	DESCRIPTION	RANGE
CLEARING (clearing time)	The interval after disconnecting the call and reusing the trunk line.	0~25sec
CO SUPV (CO supervision time)	The interval of checking the C.O.	000~9000 msec
F DGT DLY (first digit delay time)	After seizing the trunk line, system sends the first digit.	100~2500 msec
FLASH PBX (PBX flash time)	The duration of a flash when connected to a C.O.	100~2500 msec
MFS ON TM (MF sender on time)	The duration of DTMF Sender ON status when sending DTMF signal	100~2500 msec
MF OFF TM (MF sender off time)	The duration of DTMF Sender OFF when sending DTMF signal.	100~2500 msec
MPD DETCT (MPD detect time)	The minimum duration of MPD signal when the signal is incoming.	40~500 msec
NEW CALL (New Call time)	The duration of a flash sent to the central office to disconnect the line.	100~2500 msec
NO RING (no ring time)	After the incoming outside call is detected, if the outside call is disconnected without call processing, the system checks none of ring signal on the C.O line and release the C.O line.	1-25sec
PAUSE TM (pause time)	This is a pause duration timer. A pause is an instruction for the system to wait.	1~25sec
RNG DETCT (ring detect time)	This timer must be set shorter than the on cycle for C.O. ring. It is intended to prevent noise on the C.O. line from triggering a false ring.	100~2500 msec

NOTE : Display shows second millisecond as MS, and minute as MI.

Action

Display

1. Press AUTO RDL and dial 53

CLEARING: 00S

2. Press **LINE1 or LINE2** to select the timer you want (e.g. CO SUPV)

CO SUPV: 0000MS

3. Dial new time (e.g. 0500)

CO SUPV: 0500MS

4. Press AUTO RDL to save and exit

DEFAULT DATA

: 00 SEC
: 0000 MSEC
: 1000 MS
: 0600 MSEC
: 0100 MSEC
: 0100 MSEC
: 40 MSEC
: 2000 MSEC
: 05 SEC
: 03 SEC
: 0200 MSEC

RELATED MMC

NONE

Description:

Allows the ability to change the duration of the make/break time. This will only affect rotary dial trunks.

Action

- 1. Press AUTO RDL and dial 54
- 2. Enter the MAKE/BREAK ratio via the KEYPAD (e.g. MAKE:40 BREAK:60)
- 3. Press AUTO RDL to save and exit

DEFAULT DATA

MAKE : 33 BREAK : 67

RELATED MMC

MMC 41 TRUNK DIALING TYPE

MAKE:33 BREAK:66

MAKE:40 BREAK:60

Display

MAKE/BREAK RATIO

CURRENT DATE AND TIME

Description:

Allows the system date and time to be set. This will set the system-wide clock.

YY	Year	00~99 (e.g. 1995;æ95)
ММ	Month	01~12
DD	Date	01~31
W	Weekday	0~6 (0:SUN 1:MON 2:TUE 3:WED 4:THU 5:FRI 6:SAT)
нн	Hour	00~23
ММ	Minute	00~59

Action

- 1. Press AUTO RDL and dial 55
- 2. Enter current date and time using above table (e.g. 5th July 1998, Wednesday, 11:35)
- 3. Press AUTO RDL to save and exit

DEFAULT DATA

SAT 01 JAN 12:00

RELATED MMC

MMC 15 DATE DISPLAY

Display

YY MM DD W HH:MM

95 07 05 3 11:35

ASSIGN AUTO NIGHT TIME

Description:

Used to enter the system into night mode automatically. A NIGHT key is not needed as the system will switch automatically, but it is helpful to have a dedicated button so the status can be manually changed. In the display, D is the time the system will switch from night to day service and N is the time the system will switch from day to night service.

There are three types of automatic night time table: WEEK, SATURDAY and SUNDAY. Each of them is composed of two time tables. If the user wants to switch automatically twice a day, it is useful to complete the two time tables in each of the automatic night time tables.

Table type	Description
WEEK	Used for Monday through Friday
SATURDAY	Used for Saturday
SUNDAY	Used for Sunday

Action

1. Press AUTO RDL and dial 56

Display

WEK1 D0000 N0000

2. Press LINE1 or LINE2 to select the auto night time table: There are six tables available (WEEK1, WEEK2, SAT1, SAT2, SUN1, SUN2) If you want to switch to the night mode twice a day, you must enter the time of two related tables (e.g. WEEK1 and WEEK2) If you do not, the system will switch to the night mode once a day
3. Enter the day start time and the night start time (e.g. 7:00 a.m. and 5:30 p.m.)

Eight digits must be entered (if there are less than eight digits, data will not be changed)

 If you want to switch twice a day, you must enter two related tables simultaneously (e.g. WEEK1 and WEEK2) WEEK1 D:0700 N:1200

AND

WEEK2 D:1300 N:1700

4. Press AUTO RDL to save and exit

DEFAULT DATA

DAY : 0000 NIGHT : 0000

RELATED MMC

MMC 55 CURRENT DATE AND TIME

Description:

Used to program the unit cost of the metering pulse generated by Central Office. If the MPD card is installed in the system, it will detect the metering pulse provided by the Central Exchanger and determine the call cost by the number of metering pulses and the unit cost programmed by this MMC. The unit cost is four (4) digits, measured in the lowest denomination of currency (e.g. pence in the UK).

Action

Display

- 1. Press AUTO RDL and dial 57
- Enter 4-digit call cost. (If you don't enter four digits, the data will not be changed)
- 3. Press AUTO RDL to save and exit

DEFAULT DATA

CALL COST : 0000 (Range of UNIT COST is 0001-9999)

RELATED MMC

MMC 47 ASSIGN MPD

CALL COST: 0000

CALL COST: 0320

CALL COST

TOLL DENY TABLE/APPLY

Description:

Allows you to define what leading digit(s) in a dialling plan are to be restricted and which class(es) should be applied in this toll deny table. Each entry can be defined by up to 11 digits.

Acton

- 1. Press AUTO RDL and dial 60
- 2. Press **MUTE/DND** or **MSG** to select the search class (search class = NEW, ALL, B, C, D, E)
- 3. Pressing **LINE1** or **LINE2** to find the desired entry or Empty entry
- 4. Enter the dial number to be restricted and press
 CALLBACK or RDL to assign the toll restriction apply class
 Then dial four (4) digits:
 0 for NO
 - 1 for YES
- 5. Press AUTO RDL to save and exit

DEFAULT DATA

NONE

RELATED MMC

MMC 30 STATION TOLL CLASS MMC 61 TOLL ALLOW TABLE/APPLY

TOLL DEN	Y:NEW
054646028	34:1111
	:BCDE
0546	:0011

Display

TOLL ALLOW TABLE/APPLY

Description:

Allows you to define what leading digit(s) in a dialling plan are to be allowed and which class(es) should be applied in this toll allow table. Each entry can be defined by up to 11 digits.

Action

- 1. Press AUTO RDL and dial 61
- Pressing MUTE/DND, select the search class (search class =NEW, ALL, B,C,D,E)
- 3. Press **LINE1** or **LINE2** to find the desired entry or Empty entry
- Enter the dial number to be allowed and press CALLBACK or RDL to assign the toll class
 Then dial four (4) digits

 0 for NO
 1 for YES
- 5. Press AUTO RDL to save and exit

DEFAULT DATA

NONE

RELATED MMC

MMC	30	STATION TOLL CLASS	S
MMC	60	TOLL DENY TABLE	

TOLL ALLOW: NEW

Display

05464602834:1111

:BCDE

:0011

0546

PBX ACCESS CODE

Description:

Used to identify PBX access codes so that toll restriction will work. When a PBX line is accessed, the dial tone originates in another PBX and extension numbers on that switch can be dialled.

To get an outside line, an access code must be dialled. If this access code appears in this list, it is ignored and the toll restriction plan examines the digits following the PBX access code. It has five entries (1-5) with a maximum of four digits per entry.

Action

Display

1. Press AUTO RDL and dial 62

- 2. Press **LINE1** or **LINE2** to select the entry (e.g. PBX2)
- 3. Enter new PBX access code(maximum four digits, e.g. 9)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

NONE

RELATED MMC

MMC 40 C.O. PBX LINE

PROGRAMMING

PBX2:

PBX1:9

PBX1:

COS:

MMC 63

AUTHORIZATION CODE

Description:

Used to list all allowable authorisation codes. An authorisation code must be four digits long. There are 50 codes allowed in this table. Duplications or number conflicts are not permitted.

Each authorisation code has an associated dialling class of service. When the code is entered, the dialling class of service is changed to that of the authorisation code.

Action

Display

AU01:

- 1. Press AUTO RDL and dial 63
- 2. Enter two digits(01~50), or press **LINE1** or **LINE2** to select the entry
- Enter 4-digit code and dialling class (e.g. 0312 end 1)
 There are five dialling classes
 1 : A CLASS
 - 2 : B CLASS
 - 3 : C CLASS
 - 4 : D CLASS
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

NONE

RELATED MMC

MMC 30 STATION TOLL CLASS

AU01:0312 COS:1

Description:

Used to enter up to five exceptions to toll restriction. These exceptions can be accessed by any class in both the day and night modes. These entries are useful in allowing access to emergency numbers.

Caution should be taken with the entries in this table because they will not be blocked for outgoing calls.

Action

Display

OVERRIDE TABLE

- 1. Press AUTO RDL and dial 64
- Press LINE1 or LINE2 to select the urgent 2. code number that you want (e.g. 911)
- 3. Enter the number to allow (e.g. 911)
- Press AUTO RDL to store and exit 4.

DEFAULT DATA

NONE

RELATED MMC

NONE

URG1:

URG2:

URG1:911

ASSIGN WILD CHARACTER

Description:

Provides flexibility to toll restriction when a specific numbering plan is desired. There are only three entry tables, but more than one digit can be assigned per table if needed.

Action

- 1. Press AUTO RDL and dial 65
- 2. Press LINE1 or LINE2 to select the wild character(X,Y or Z, e.g. Y))
- Enter the digit '1' under the desired digit. Twelve (12)
 Digits must be entered (If there re less than 12 digits, data will not be changed)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA

1234567890*# X : 1111111111 Y : 11111111111 Z : 111111111111

RELATED MMC

MMC 60 TOLL DENY TABLE MMC 61 TOLL ALLOW TABLE X:1111111111111

Display

Y:1111111111111

X:0000000000

MMC 66 SYSTEM SPD DIAL TOLL RESTRICTION

Description: Enables you to define whether the system allows or denies long distance numbers in system speed dialling to override toll restriction. BYPASS TOLL Any station can use system speed dial numbers without restriction, regardless their classes. FOLLOW TOLL The system checks all the system speed dialings according to the station class and deny/allow table.

Action

Dispaly

1. Press AUTO RDL and dial 66

 Press MUTE/DND or MSG to select data OR
 Dial 1 for BYPASS TOLL or 2 for FOLLOW TOLL

3. Press AUTO RDL to save and exit

DEFAULT DATA

BYPASS TOLL

RELATED MMC

MMC 30 STATION TOLL CLASS MMC 60 TOLL DENY TABLE MMC 61 TOLL ALLOW TABLE MMC 67 ASSIGN SYSTEM SPEED DIAL FOLLOW TOLL

BYPASS TOLL

ASSIGN SYSTEM SPEED DIAL

Description:

Used to store up to 80 system speed dial numbers. The system speed dial number is composed of two digits (20-99) and a maximum of 30 digits per telephone number can be stored at each speed dial number. Eighty (80) system speed dial numbers are commonly used at every station and the system toll restriction is set using MMC 66. A speed dial number comprises an access code and the number to be dialled. The access code can be any trunk group, individual trunk, station group, and individual station. If you dial a valid trunk, trunk group, station or station group access number, it will automatically insert the separator (:).

Action

Display

1.	Press AUTO RDL and dial 67	SYS SPD TABLE:
2.	Using LINE1 or LINE2 to select the entry	20:
	Dial the entry number (20~99, e.g. 20)	
3.	Enter the speed dial number (up to 30 digits)	20:7019P0546460
4.	Enter trunk access code(e.g. 9) followed by	17:9:1234567
	the number to be dialed(e.g. 1234567)	
5.	Press LINE1 or LINE2 to enter another speed	

dial number and return to step 36. Press AUTO RDL to save and exit

DEFAULT DATA

NONE

RELATED MMC

NONE

DIAL NUMBERING PLAN

Description:

Provides the access codes and dialling plan needed for operation of features and programs. The system comes with a wide range of acceptable numbering plans set as default and the option to customise the dialling plan. There is also a confirm message provided because of the chance of duplicating an access/ feature code.

Action

- 1. Press AUTO RDL and dial 70
- 2. press **MUTE/DND** or **MSG**, select the desired numbering plan group(STATION, STATION GRP, TRUNK, TRUNK, GRP or FEATURE)
- 3. Search the desired numbering plan entry by pressing LINE1 or LINE2
- 4. Enter digits via the dial keypad (Max 3 digits)
- 5. Press LINE1 or LINE2 to enter change and continue to make changes

OR

Press **MUTE/DND** or **MSG** to enter change and continue to select numbering plan groups in step 2

If confirm message appears indicating duplication of access code, dial

0 for no change

- or 1 for change
- 6. Press AUTO RDL to save and exit

STN09:201:

Display

STN09:201:401

STN10:202

SGR01:500:

NX-828 HYBRID KEY SYSTEM

MMC 70

DEFAULT DATA

ACC	: 47	: ACCOUNT CODE
ALM	: 58	: ALARM
AMD	: 68	: ANSWER MODE
ATH	: 65	: AUTHORIZATION CODE
BRG	: 40	: BARGE-IN
CBK	: 44	: CALL BACK
CMP	: 45	: CAMP-ON
CNF	: 46	: CONFERENCE
COS	: 59	: CLASS OF SERVICE
CPS	: 54	: CHANGE PASSCODE
DND	: 64	: DO NOT DISTURB
DOR	: 13	: DOOR
DPC	: 10	: DIRECT PICKUP
EXC	: 12	: EXECUTIVE / SECRETARY
FAT	: 14	: FORCED AUTO ANSWER
FLS	: 49	: FLASH
FWA	: 61	: CALL FORWARD ALL
FWB	: 62	: CALL FORWARD BUSY
FWC	: 60	: CALL FORWARD CANCEL
FWN	: 63	: CALL FORWARD NO ANSWER
GPC	: 66	: GROUP PICK UP
GPS	. *	: SELF GROUP PICK UP
HED	: 69	: HEADSET
HLD	: 11	: HOLD
IOG	: 53	: IN / OUT GROUP
LNR	: 19	: LAST NUMBER REDIAL
MPG	: 56	: MEET ME PAGE
MSA	: 43	: MESSAGE ANSWER
MSC	: 42	: MESSAGE CLEAR
MSL	: 41	: MESSAGE LEFT
OPR	: 0	: OPERATOR
PAG	: 55	: PAGE
REC	: 18	: DISA VOICE RECORDING
SDI	: 15	: SPEED DIAL INSERTION
SNR	: 17	: SAVED NUMBER REDIAL
SPD	: 16	: SPEED
SGR	: 500-519	: STATION GROUP
STN	: 2XX	: STATION NUMBER
TRK	: 7XX	: TRUNK NUMBER
TGR	: 9, 80~89	: TRUNK GROUP
UPC	: 67	: UNIVERSAL NIGHT ANSWER
VAC	: 48	: VACANT MESSAGE

RELATED MMC

ALL PROGRAM AND FEATURES
SYSTEM KEY PROGRAMMING

Description:

MMC 71

Allows for the customising of programmable keys on a system-wide basis.

Action

- 1. Press AUTO RDL and dial 71
- 2. Press LINE1 or LINE2 to select the type of the keyset:
- Press the desired key OR
 Press RDL or CONF to select desired key. (e.g. 13)
- 4. Enter the key programming via keypad. Trunk number, Trunk Group number, Station number, Station Group number, or feature number can be programmed keys

If you want to program a feature key, you must press '*' key Before entering the feature key ID (e.g. NIT : *26)

Programmable key assignments are listed below (Default Data)

If you want to change another key, return to step 3

5. Press AUTO RDL to save and exit.

DEFAULT DATA

NX-24E/NX	(-24B				
19: 209	20:210	21: 211	22: 212	23: 213	24: 214
13: 203	14: 204	15: 205	16: 206	17: 207	18: 208
07: 705	08: 706	09: 707	10: 208	11: 201	12: 202
01: 701	02: 702	03: 703	04: 704	05: FLS	06: TRN
[
NX-6B					
01: 701	02: 702	03: 703	04: 704	05: FLS	06: TRN

Display

TYPE: NX24

TYPE: NX12

13:NONE

13:*26

NX-828 HYBRID KEY SYSTEM

MMC 71

SKP-816					
09: 201	17: 209	01: 701	02: 702	03: 703	04: 704
10: 202	18: 210	05: 705	06: 706	07: 707	08: 708
11: 203	19: 211				
12: 204	20: 212				
13: 205	21: 213				
14: 206	22: 214				
15: 207	23: 215				
16: 208	24: 216				

NX-AOM	
01: NONE	13: NONE
02: NONE	14: NONE
03: NONE	15: NONE
04: NONE	16: NONE
05: NONE	17: NONE
06: NONE	18: NONE
07: NONE	19: NONE
08: NONE	20: NONE
09: NONE	21: NONE
10: NONE	22: NONE
11: NONE	23: NONE
12: NONE	24: NONE

Programmable Key Assignment

*00 :	ACC	Account code	*20 :	IOG	Group In/Out
*01:	ALM	Set Alarm	*21:	LNR	Last Number Redial
*02:	AMD	Answer Mode	*22:	LSN	Group Listening
*03:	ARD	Auto Redial	*23:	MPG	Meet Me Page
*04:	BRG	Barge-In	*24:	MSG	Message
*05:	СВК	Callback	*25 :	MUT	Mute
*06:	CMP	Camp-on	*26 :	NIT	Night mode
*07:	CNF	Conference	*27:	OPR	Operator group
*08:	DND	Do Not Disturb	*28:	PAG	Page
*09:	DOR	Door	*29 :	PSE	Pause Dialing
*10:	DPC	Direct Pickup	*30 :	SNR	Saved Number Redial
*11:	EXC	Boss/Secretary	*31 :	SPD	Speed Dialing
*12:	FAT	Forced Auto Answer	*32:	TMR	Timer
*13:	FLS	Flash	*33:	TRN	Transfer
*14:	FWA	Call Forward All	*34 :	UPC	UNA Pickup
*15:	FWB	Call Forward Busy	*35 :	VAC	Vacant Message
*16:	FWE	External Call Forward			
*17:	FWN	Call Forward No answer			

- *18 : GPC Group Pickup
- *19 : HED Headset mode

NOTE : : The SPD, VAC, PAG, DOR, EXC, DPC and GPC keys can be assigned with extenders. Refer to MMC 16 KEY EXTENDER.

RELATED MMC

MMC 16 KEY EXTENDER MMC 72 STATION KEY PROGRAMMING

STATION KEY PROGRAMMING

Description:

MMC 72

Allows for the customising of programmable keys on specific electronic keysets. This program also provides a tool for duplicating keysets (so that each has the same key format structure). A limitation is that copied and target sets must be the same type of keyset.

Action

- 1. Press AUTO RDL and dial 72
- 2. If you want to copy from another station key assignment, enter the station number(e.g. 202)

Press LINE1/LINE2 to select the station

- Press the desired key OR
 Press RDL or CONF to select desired key
- Press dial pad key number to make selection. If you want to change another key, return to step 3
- 5. Press AUTO RDL to save and exit

DEFAULT DATA

Same as MMC 71

RELATED MMC

MMC 16 KEY EXTENDER MMC 72 STATION KEY PROGRAMMING 201 CPY FROM:

201 CPY FROM: 202

201 01:701

201 13:NONE

201 13:*10702

Display

Description:

Allows you to check whether each key works properly.

Action

1. Press AUTO RDL and dial 73

All LEDs light and station rings Display sets show the full matrix pattern for 16 characters

- Press each function button and dial pad key to test its operation (e.g. 2)
- 3. Lift the handset and end testing

DEFAULT DATA

NONE

RELATED MMC

NONE

Display

DIGIT2::

PROGRAMMING

KEY TEST

I/O PARAMETER

Description:

Provides a mean of setting parameters for the serial I/O ports (COM1 and COM 2) to work with SMDR and Remote MMC. COM1 and COM2 may be found on the SMDR/R-MMC card. COM1 is the SMDR port and COM2 is R-MMC port on the card. COM1 is used as SMDR or TRAFFIC port and COM2 is used for remote programming.

PARAMETER	OPTIONS
TYPE OF SERVICE	SMDR, REMOTE, TRAFFIC
REMOTE STN	REMOTE only
BAUD RATE	300, 600, 1200, 2400, 4800, 9600 BPS
CHARACTER LENGTH	7 BIT, 8 BIT
PARITY	NO PARITY, EVEN PARITY, ODD PARITY
STOP BIT	1 BIT

Action

1. Press AUTO RDL and dial 80

- 2. Press **LINE1,LINE2** to select the serial port (COM1, COM2)
- 3. Press **RDL** or **CONF** to select the parameter you want
- 4. Press MUTE/DND or MSG to select the data
- 5. Press AUTO RDL to save and exit

DEFAULT DATA

- COM1 : 9600 8 NONE COM2 : 9600 8 NONE COM1 : XON OFF : ON COM2 : XON OFF : ON SMDR : COM1 TRAFFIC : COM1 REMOTE : COM2 STN : NONE
- NOTE : 'XON OFF' means whether the system checks the CTS pin of the serial port. 'REMOTE STN' means the port displaying the Remote MMC procedure. When remote programming is in progress, it is not possible to access this port.

RELATED MMC

NONE

Display

COM1:9600 8 NONE

COM1:4800 8 NONE

COM1:4800 7 ODD

Description:

SMDR OPTION

PROGRAMMING

Allows the system adn SMDR report. The fol	ninistrator to select the information to be printed on the lowing options may be selected.
OPTIONS	DESCRIPTIONS
PAGE HEADER	Determines whether or not a page header will print at the top of each page. This feature is normally turned off if SMDR is sent to a call accounting machine.
LINE PER PAGE	Selects the length of each page to determine when to print the SMDR header. The number of lines is in the range 10-99.
INCOMING CALL	Determines whether incoming calls will print on SMDR.
AUTHORIZE CODE	Determines whether the table number of authorisation codes will print on SMDR.
LESS START TIME	Determines whether valid calls will include the minimum call time in total call duration.
ALARM	Determines whether stations receiving an alarm reminder call will print on SMDR.
COMPANY NAME	Allows the system administrator to enter a 16-character name which will appear on the SMDR header.

Action

1. Press AUTO RDL and dial 81

DISPLA Y

PAGE HEAD:YES

2. Press **LINE1** or **LINE2** to select the parameter you want (e.g. LINE PER PAGE)

LINE PER PAGE:66

- 3. Press MUTE/DND or MSG to select data OR Using KEYPAD, dial 0 for NO 1 for YES For LINE PER PAGE, enter the line number(10-99) For COMPANY NAME, refer to MMC 14 (STATION NAME)
- 4. Press AUTO RDL to save and exit

AGE HEAD

DEFAULT DATA

PAGE HEADER	: YES
LINE PER PAGE	: 66
INCOMING CALL	: NO
AUTHORIZE CODE	: YES
LESS START TIME	: NO
ALARM	: NO
COMPANY NAME	: NONE

RELATED MMC

MMC 80 I/O PARAMETER

CALL TRAFFIC REPORT

Description:

Used to print a traffic report. Four types of printing are available and each type has two options.

NO.	TYPE	DESCRIPTION
0	NO	No print
1	NOW	Printed on demand
2	DAILY	Printed at the end of day automatically (PM 12:00)
3	WEEKLY	Printed at the end of week automatically (PM 12:00 on Saturday)
NO.	OPTIONS	DESCRIPTION
0	CLEAR	A report is printed and all totals are reset to (
1	SAVE	A report is printed and all totals are saved

Action

Display

1. Press AUTO RDL and dial 83

PRINT : NO

PRINT : WEEKLY

- 2. Press MUTE/DND or MSG to select type you want OR Using KEYPAD, dial
 - 0 for NO 1 for NOW
 - 2 for DAILY
 - or **3 for WEEKLY** (e.g. 3)
- 3. Press LINE1 or LINE2 and dial 0 for CLEAR, or 1 for SAVE (e.g. 1)
- 4. Press AUTO RDL to save and exit

DEFAULT DATA : PRINT : NO DATA : SAVE

RELATED MMC : MMC 80 I/O PARAMETER

DATA: SAVE

NX-828 HYBRID KEY SYSTEM

MMC 90

Description:

Allows the customer to have access to certain MMCs. For example, it is advised that the customer have access to MMC 11, Call Forward, for call forwarding but it is not advised that the customer have access to MMC 60, Toll Deny for toll restriction.

Action

- 1. Press AUTO RDL and dial 90.
- 2. Press LINE1 or LINE2 to select the MMC you want. OR

Using KEYPAD, enter the desired MMC number.

3. Press **MUTE/DND** or **MSG** to make selection. 01:S⁻ (NO = Customer cannot access the MMC)

4. Press AUTO RDL to save and exit.

DEFAULT DATA

00:STN LOCK	:YES	20:PGM MODE	:NO
01:STN CODE	:YES	21:PGM CODE	:YES
10:ANS MODE	:YES	22:CUS MISC	:YES
11:CALL FWD	:YES	23:PAGE ZONE	:NO
12:STN MISC	:YES	24:BARGE IN	:NO
13:RING FREQ	:YES	25:HOT WARM	:YES
14:STN NAME	:YES	26:ALM CLK	:YES
15:DATE FORM	:YES	27:VAC MSG	:YES
16:KEY EXTEN	:YES	28:CALL DISC	:NO
17:STN SPD	:YES	30:STN COS	:NO
		31:TRK USE	:NO
		32:INTERCOM	:NO
		33:DOOR RING	:NO

CUSTOMER USE MMC

DISPLAY

00:STN LOCK : NO

00:STN LOCK : YES

01:STN CODE: YES

34:PICK GRP	:NO
35:STN GRP	:NO
36:BOSS SECR	:YES
37:SET AOM	:NO
38:SLT TYPE	:NO
39:DATA LINE	:NO
40:PBX LINE	:NO
41:TRK DIAL	:NO
42:TRK MISC	:NO
43:TRK RING	:NO
44:TRK NAME	:NO
45:TRK GRP	:NO
46:DISA LINE	:NO
47:SET MPD	:NO
50:SYS TIME	:NO
51:TONE CADE	:NO
52:SYS CNTR	:NO
53:TRK TIME	:NO
54:MAKE RATE	:NO
55:DATE TIME	:YES
56:NITE TIME	:YES
57:CALL COST	:NO

60:TOLL DENY	:NO
61:TOLL ALOW	:NO
62:PBX CODE	:NO
63:AUTH CODE	:NO
64:URGENT CD	:NO
65:WILD CHAR	:NO
66:SPD TOLL	:NO
67:SYS SPD	:YES
70:NUM PLAN	:NO
71:SYS KEY	:NO
72:STN KEY	:NO
73:KEY TEST	:NO
80:IO PARA	:NO
81:SMDR OPT	:NO
83:TRFC RPT	:YES

RELATED MMC

NONE

Description:

Provides a display of the current software version of the KSU and the keyset, and the date when product was made. This is a READ-ONLY MMC.

Action

- 1. Press AUTO RDL and dial 91.
- 2. Press LINE1 or LINE2 to select the display you want.
- 3. Press AUTO RDL to and exit.

DEFAULT DATA

SOFTWARE VERSION AND PRODUCT BUILD DATE

RELATED MMC

NONE

SYSTEM VERSION

Display

MADE:1996.01.01

KSU:V1.0 EKTS:01

Description:

Displays the status of a port. There are 16 status types: IDLE, BUSY, CALLBACK, DOOR RING, TRK RING, STN RING, GRP RING, RCL RING, PROGRAM, ON T HOLD, ON S HOLD, ON E HOLD, IS PAGED, IS SEIZED, WRAP UP, OFF HOOK.

Action

- 1. Press AUTO RDL and dial 92.
- 2. Press LINE1 or LINE2 to see the status of the port.

If you want to clear the port's status, press **HOLD**

3. Press AUTO RDL to save and exit.

DEFAULT DATA

IDLE

RELATED MMC

NONE

[702] ID

Display

PORT STATUS

[702] BUSY

[702] IDLE

PROGRAMMING

SELECTION LANGUAGE

Description:

Used to select the language that is displayed in the LCD. The languages available are listed below with their entry numbers.

ENTRY NUMBER	LANGUAGE
1	ENGLISH
2	SPANISH
3	PORTUGUESE

NOTE : English is displayed in LCD, when you are in MMC mode.

Action

- 1. Press AUTO RDL and dial 93.
- Press MUTE/DND or MSG to select the language.
 OR
 - Using KEYPAD, dial
 - 1 for ENGLISH
 - 2 for SPANISH
 - or 3 for PORTUGUESE.
- 3. Press AUTO RDL to save and exit.

DEFAULT DATA

ENGLISH

RELATED MMC

NONE

DISPLAY

ENGLISH

SPANISH

NX-828 HYBRID KEY SYSTEM

MMC 94

Description:

Used only in the event that all data processing needs to be stopped. A 4-digit technician's passcode is required to access this MMC. This MMC doesn't interfere with the call in progress, but when making a new call you will hear a busy tone.

Action

- 1. Press AUTO RDL and dial 94.
- 2. Enter technician's passcode
- 3. Press **MUTE/DND** or **MSG** to select data. OR

Using KEYPAD, dial

- 0 for PROCESSING
- or 1 for HALT
- (e.g. 0)
- 4. Press AUTO RDL to save and exit.

DEFAULT DATA

PROCESSING

RELATED MMC

NONE

PASSCODE:****

PASSCODE:

PROCESSING

HALT PROCESS

Display

SYSTEM RESTART

Description:

Provides two methods of restarting the system.

OPTIONS

DESCRIPTION

RESET SYSTEM CLEAR MEMORY It will restart the system only. It restart the system and clear all memory. If clear all memory is selected, only the default data will return.

WARNING

Extreme care should be taken when using this MMC. If the system is restarted, all voice/data connections are dropped. If memory is cleared, all customer data is deleted and the system returns to default status.

Action

1. Press AUTO RDL and dial 95.

2. Enter the technician's passcode

- 3. Press **LINE1** or **LINE2** to select the option. (e.g. CLEAR MEMORY)
- 4. Dial 0 for NO or 1 for YES

If you selected CLEAR MEMORY you are asked to confirm your choice: Dial **0 for NO** or **1 for YES**

DEFAULT DATA

NONE

RELATED MMC

NONE

RESET SYSTEM?

DISPLAY

PASSCODE:

CLEAR MEMORY?

ARE YOU SURE?



Appendix A Remote Programming

Remote programming capability has been incorporated into the NX-828H via the communication (serial) R-MMC port of the optional SMDR/R-MMC card mounted on the base unit. This port is fixed as a programming port only. The remote programming capability of the NX-828H can be used to add, delete or modify a customer database. While remote programming gives added flexibility to the NX-828H, it is not possible to upload to, or download from, a disk or tape. All NX-828H MMCs may be accessed via remote programming.

1. Site Requirements 1.1 Customer Site Requirements

Before using remote programming:

it Install the optional NX-SMDR/R-MMC card in the base unit.

¹^{II} Use MMC 80 to set the baud rate of the R-MMC port of the optional NX-SMDR/R-MMC card to match the customer site's modem. Baud rate speed selections are 300, 600, 1200, 2400, 4800 and 9600. (8 Data bit, No parity, 1 stop bit is default.)

¹⁰ Use MMC 80 Remote Station option: When remote programming is used, it must reference an installed NX24E keyset at the customer site. This assigned keyset will be disabled for the duration of the remote programming session. When remote programming is not in use, this assigned keyset will function as a normal keyset. No default data has been set and a keyset port selection should be made that will offer the minimal inconvenience at the job site.

NOTE : There are no physical connections to be made between keyset and modem or keyset and communications port. The assigned keyset is used as a software reference point only.

A customer-provided modem and cable must be connected to the R-MMC port.

 $_{i^{\ensuremath{\vec{u}}}}$ Use a voice grade dial-up line on which the modem can be called.

1.2 Remote Site Requirements

i^t A personal computer (PC) with communications software that can emulate VT 102 terminal.

NOTE : Since communication software can vary, no assurance can be made that every communications software package available will work.

 $_{i^{ij}}$ An internal or external modem able to match baud rate speed with the modem at the customer site.

A- 1

ſ

 $_{i^{ij}}$ A voice grade dial-up line to call the customer modem.

1.3 Begin Programming

Dial the customer modem number and establish a communications link with the customer site. Once communications have been established, press the TAB key on the PC keyboard and you will receive the NX-828H system header display (shown below).

CUSTOMER	:		
DATE	:	Sat,01 , Jan	
TIME	:	00:02	
TRANSFFR	·	 Тав	
SPEAKER	:	RETURN	
UP/DOWN	:	UP/DOWN	
REDIAL/FI	LASH:	LEFT/RI GHT	
HOLD	:	BACKSPACE	

If you receive a "SORRY!DESTINATION PORT IS BUSY" display, the keyset assigned as the remote station in MMC 80 is currently busy and no remote programming can be done at this tim e. When the NX-828H system header is displayed, you can enter MMC 20, type the necessary passcode to open programming and begin the remote programming session.

1.4 Programming Protocol

The NX-828H will only recognise keystrokes on the PC keyboard that have been assigned as an NX-keyset equivalent. These keystrokes are fixed and are not programmable. Use the PC equivalent in place of the NX24E key as called for in MMC programming procedures. These keystrokes are described below. Dial pad numbers may be entered using the standard number keys of the PC keyboard or the number pad on the right-hand side of the PC keyboard (if equipped).

CAUTION : Do NOT use MMC 73 or 95 (Clear Memory option) while in remote programming. Defaulting the system will clear all necessary data needed for remote programming. Someone at the customer site will be needed to assign the necessary data for remote programming to work.

2. On-site Programming Via PC Terminal

On-site programming via a PC terminal has been incorporated into the NX-828H via the communication (serial) R-MMC port on the optional SMDR/R-MMC card mounted in the base unit. This port is fixed as a programming port only. The on-site programming capability of the NX-828H can be used to add, delete or modify a customer database. While on-site programming gives added flexibility to the NX-828H, it is not possible to upload to or download from a disk or tape. ALL NX-828H MMCs may be accessed via on-site programming.

2.1 On-site Requirements

Before on-site programming can be used:

- it Install the optional SMDR/R-MMC card in the base unit.
- i^θ Use a customer-provided PC terminal with communications software that can emulate a VT 103 type terminal.

NOTE : Since communications software can vary, no assurance can be made that every communications software package available will work.

- i^ΰ Use MMC 80 to set the baud rate, Data bit, Parity bit, and Stop bit of the R-MMC port of the optional SMDR/R-MMC card to match the customer's PC terminal. Baud rate speed selections are 300, 600, 1200, 2400, 4800 and 9600. 8 bit / 7 bit data, No parity / Even parity / Odd parity, and 1 stop / 2 stop bit are selectable.
- ¹^{II} Use MMC 80, Remote Station option: When on-site programming is used, it must reference an installed NX24 keyset at the customer site. This assigned keyset will be disabled for the duration of the on-site programming session. When on-site programming is not in use, this assigned keyset will function as a normal keyset. No default data has been set and a keyset port selection should be made that will offer the minimal inconvenience at the job site.

NOTE : There are no physical connections to be made between the assigned keyset and the communications port. The assigned keyset is used as a software reference point only. If the assigned keyset is a display keyset, it will echo the programming keystrokes from the PC terminal.

it A customer-provided cable must be connected between the PC terminal and the R-MMC port.

2.2 Begin Programming

Once communications have been established, press the TAB key on the PC keyboard and you will receive the NX-828H header display (shown below). If you receive a "SORRY DESTINATION PORT IS BUSY" display, the keyset assigned in MMC 80 is currently busy and no on-site

A-3

programming can be done at this time. When the NX-828H header is displayed, you can enter MMC 20, type the necessary passcode to open programming and begin the on-site programming session.

NOTE : CUSTOMER in the header will display the name assigned in MMC 81.

2.3 Programming Protocol

The NX-828H will only recognise keystrokes on the PC keyboard that have been assigned as an NX24 keyset equivalent. These keystrokes are fixed and are not programmable. Use the PC equivalent in place of the NX24 key as called for in MMC programming procedures. These keystrokes are described below. Dial pad numbers may be entered using the standard number keys of the PC keyboard or the number pad on the right-hand side of the PC keyboard (if equipped).

Appendix B Database Download

1. Introduction To Database Download Programming

A database download programming capability has been incorporated into the **NX-828** via the communication (serial) **SMDR** port of the optional **SMDR/R-MMC** card mounted in the base unit. This is a software utility designed to allow a certified **NX-828** technician the ability to perform a database download on-site.

1.1 Customer Site Requirements

Certain conditions must be satisfied before installing the software package on a personal computer:

- 1. Install the optional NX-SMDR/R-MMC card in the base unit.
- 2. Use a 286 or higher IBM-PC or 100% IBM-compatible computer with the following
 - iÜ MS-DOS version 5.0 or higher
 - i^Ü MS-WINDOWS version 3.1 or higher
 - ; \ddot{U} 3 " \dot{u} " or 5 " \ddot{o} " high-density floppy drive
 - i^Ü VGA monitor.
- 3. Rs-232C cable

2. Installing Database Downloading

2.1 Getting Started

- 1. Create a directory to store the DATABASE DOWNLOAD program.
- 2. Copy the file to the new directory. The file is compressed and will have a name similar to **NX71229.exe** where **71229** is the date the file was generated.
- 3. Type **"NX71229"** to uncompress the file or Double-click file name on the file name in the Windows file manager.
- 4. Double-click on the icon that was created by the install program in the Windows file manager "NX_DOWN.EXE".

3. Setup of Database Downloading Program 3.1 Starting NX Download Program

- 1. Connect the cable required (RS-232C)
- 2. Turn on the PC.
- 3. Enter the **DATABASE DOWNLOAD** directory.
- 4. Double-click on the icon that was created by the install program in the Windows -"NX_DOWN"
- 5. You will see Windows shown below.

Figure 1.1 Main Window

🋗 NX-Series	Database dowr	nload program						_ 🗆 ×
<u>F</u> ile Downlo	oad <u>H</u> elp	<						49
🔒 👫 🛃	🧶 📑 🕵	@ ?						1997 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1
MMC00-19	ММС20-29	ммсзо-зэ	ммс40-49	MMC50-59	MMC60-69	MMC70-79	ММС80-89	ММС90-99
								_
								-
4								Þ
Product:	NX-828H	Version: V1	.0	Serial Port:	COM1			

3. 2 Setup Of Database Downloading Program

Setup is one of the most important parts of the **DOWNLOAD PROGRAM**. Many problems can result simply from an incorrect connection. The **DATABASE DOWNLOADING** program communicates with the **NX-828** via the COM port in your computer and a port on the **NX-SMDR/ R-MMC** card.

Select the required option and a check mark appears in the check box.

- 1. Choose Download / Version; |
- 2. Select the item in the Product check box
- 3. Select the item in the Version check box.
- 4. Select the item in the Country check box(optional)
- 5. Select OK button.

Figure 1.2 Version & Product Dialog Box



A- 6

- 6. Choose Download / Serial Port; |
- 7. Check COM port in the Select serial port check box
- 8. Select OK button.

Figure 1.2 Port dialog box

Se	elect Serial Port		×
	Select Serial	Port	
	© COM1	C COM2	
	🗸 ОК	X Cancel	

4. Using database downloading program

4.1 Downloading

- 1. Choose DOWNLOAD / Download to File; |.
- 2. Input file name that will contain the MMC data.
- 3. Select Download button.
- 4. **"DOWNLOADING**... Press ESC key to cancel" will be displayed on the screen. It will take about 15 minutes to finish database downloading.

NOTE:

If the download fails, recheck the setup as described above and repeat the process.

If the Program stops during downloading, please wait for 5-10 sec, until the program restarts.

Figure 1.4 Input File name dialog box

Input File	×
Input File Name	✓ Download
	🗙 Cancel
Browse	? <u>H</u> elp

4.2 Open file

You can now open the downloaded database file.

1. Click MMC page tab that you want to see.

or

2. You can use another editor e.g.) the built-in DOS editor, Notebook, or another Windows editor.

Figure 1.6 MMC page tab

🌐 NX-Series Database downlo	oad program			_ 🗆 ×
<u>F</u> ile Download <u>H</u> elp				
	a ?			
MMC00-19 MMC20-29	ММС30-39 ММС40-49	ММС50-59 ММС60-6	9 MMC70-79	ММС80-89 ММС90-99
				▲
MC00,MMC10,MMC12,MM	С14, MMC30			
STNILOCK ANSWER	STATION OF	I/OFF	NAME	ITOLL
NO. MODE				CLASS
	UTOJAUTO JHEADJ HOT	KEY RING RING		i
אן ו א	OLD TIMER SET KEYPA	AD TONE LINE FREQ		1
	FELON LOFE LON			
201 JUNE OCK INTING 101	FE ION LOFF ION	ION ION II	NA 020 Ny 999	
202100LOCK RING 01	FF ION LOFF ION		MY 828	
204 LINILOCK RING 0	FF ION IOFF ION		NX 828	
20511DNLOCKIRING 10	FF ION LOFF ION		NX 828	
206 UNLOCKIRING 10	FF ION IOFF ION	ION ION 11	NX 828	I AA
207 UNLOCKINING 10	FF ION LOFF ION	ION ION 11	NX 828	I AA
208 UNLOCK RING 10	FF ON OFF ON	ON ON 1	NX 828	i AA
209 UNLOCK RING 10	FF ON OFF ON	ON ON 1	NX 828	
4				•
Product: NX-828H	Version: V1.0	Serial Port: COM1		

4.3 Save file

This option saves the downloaded file with another name with the save file option.

4.4 Print file

This option prints the database file that you downloaded

4.5 Help

This option shows the program version

Appendix C DISA Voice Announcement

1. Automatic Answer for DISA

The system automatically answers an incoming DISA (Direct Inward System Access) call and sends a message, e.g. "This is XXX company. Extension number, please". This facilitates handling of your DISA calls and tells the calling party the status of the called extension by recorded voice message (phrase 2 or 3).

The message is approximately five seconds long (15 seconds in the case of guide information). You can record any message you want.

1. Phrase Configuration

PHRASE	CONTENTS	TIME
1	Guide information	15 sec
2	Busy state	5sec
3	Invalid input	5sec
4	Operator	5sec

NOTE:

- 1. If the called extension is busy, voice message (phrase 2 and 4) is sent to the calling party.
- 2. If the digits dialled by the calling party is an invalid number, voice message is sent to the calling party.
- 3. If you use this function, you should set 'VOICE MESSAGE' to 'ON' in MMC 42.

3. How to Record & Monitor Message3.1 Recording for Initialisation

- 1. Dial 18 to display 'RECORD:PLAY ?' in LCD.
- 2. Press 0, and record phrase 1.
- 3. After recording phrase 1, play phrase 1 automatically to check it.
- 4. Display 'RECORDING' in LCD for recording phrase 2.
- 5. Record phrase 2, and play phrase 2 automatically.
- 6. Record phrases 3-4 in the same way.

A- 9

3.2 Recording

- 1. Dial 18 to display 'RECORD:PLAY ?' in LCD.
- 2. Select phrase number (1-4) you want to record, and display 'RECORDING' in LCD.
- 3. Start to record through handset or speaker phone.
- 4. After recording, you can automatically hear the recorded message.

NOTE: When you first switch on, you should record from phrase 1 to phrase 4 in order.

3.3 Monitoring

1. Dial 18 to display 'RECORD:PLAY ?' in LCD.

2. Select phrase number (5-8) you want to monitor, and display 'PLAYING' in LCD.

You can hear the selected message.

NOTE:

- 1. In order to change a recorded message, record a new message following procedure (1), so the message will be updated.
- 2. If you carry out monitoring procedure when no message is recorded, you might hear error tone.
- 3. You cannot record a message while a message is being played back.
- 4. If you stop recording prematurely, you can neither record a new message nor monitor a recorded message until the predetermined record time elapses.
- 5. The above procedures specify 18 to be dialled for recording. It is possible that this number might have been changed

Appendix D

1. External Forward

If you want to use FWE(External Call Forward) function, you must do the following steps.

- 1.1 Make a "FWE" key in programmable key using MMC 71 or MMC 72
- 1.2 Make a key extender for "FWE" key.
 - extender number should be 00 ~ 99(speed dial list no.)
- 1.3 Store speed dial number to the speed list assigned in "FWE" extender.
 - If you make a "FWE00" key, then you must store the speed number for speed list "00".
- 1.4 Press "FWE" key, then External Call Forward is setted.
- Note) External Call Forward function works only for incoming trunf call. This means that External Call Forward is C.O to C.O call. And External Call Forward does not work for group call. You must assign station number in MMC 43.
- Note) Each trunk line must be in for "TRK FWRD" in MMC 42.
- Note) If External Call Forward is working, then C.O to C.O call is disconnected after C.O to C.O disconnect time(MMC 50).

PG-UP Data Steels

<i>NX - 828 SYSTEM</i> DATABASE FORMS
CUSTOMER NAME :
ADDRESS :
TELEPHONE NUMBER :
DATABASE CONTAINS SHEETS

SYSTEM CONFIGURATION

SYSTEM	EXPANSION B'D

DATA FOR STATION

STATION					STATION ON	I / OFF (12)				TOLL
NO.	(00)	MODE (10)	AUTO HOLD	AUTO TIMER	HEADSET USE	HOT KEYPAD	KEY TONE	RING FREQ.	(14)	CLASS (30)

MMC 1	RWARD							
STATION		DESTINATION						
NO.	FORWARD ALL	FORWARD BUSY	FORWARD NO ANSWER	TIME				

MMC 17		STATION SPEED DIAL
STATION NO.	ENTRY NO.	SPEED DIAL NO.

MMC 21	CHANGE PASSCODE
PASSCODE	

MMC 22 CUSTOMER ON/							OFF	
STATION	BGM	חאם			MIKE	PAGE	PAGE	SMDP
NO.	DGIVI		DOOK	TIONT		USE	RECEIVE	SIVIDIN

MMC	23 PAGE ZONE											
ZONE		ENTRY										

MMC 24	BARGE-IN
OPTION :	
STATION NO.	BARGE-IN CLASS

MMC 25		HOT / WARM LINE
STATION NO.	DESTINATION	WARM LINE DELAY TIME

MMC 26		ALAR	M REMINDER
STATION NO.	ALARM NO.	ALARM TIME	DAY/DALY

MMC 27	VACANT MESSAGE
MESSAGE NO.	MESSAGE

MMC 31	TRUNK USE		
STATION NO.	TRUNK NO.	DIAL	ANSWER

MMC 32	INI	TERCOM USE
STATION NO.	DESTINATION STATION	USE

MMC 33		ASSIGN DOOR RING
DOOR NO.	DAY	NIGHT

MMC 34		PICKUP GROUP
GROUP NO.	MEMBER ID	STATION NO.

PICKUP GROUP	NO.		

THE MAXIMUM NUMBER OF PICKUP GROUP IS 10. COPY AS NEEDED

MMC 35				STATIC	ON GRO	OUP	
STATION GROU	JP NO. :						
RING	OVEFLOW TIME	IT T	RSF. IME	OVER PC	RFLOW DRT	TY	ΈE
NUMBER							

THE MAXIMUM NUMBER OF STATION GROUP IS 20.

MMC 36	ВО	BOSS / SECRETARY		
SECRETARY	BOSS 1	BOSS 2		

MMC 37 ADD-ON MODULE								
AOM	MASTER	AOM	MASTER	AOM	MASTER			

MMC 38 SLT DIALING T					
STATION NO.	TYPE	STATION NO.	TYPE		

MMC 39	DATA LINE		
STATION NO.	VOICE / DATA	STATION NO.	VOICE / DATA

SHEET _____ OF _____

MMC 40		C	O PBX LINE
TRUNK NO.	CO/PBX	TRUNK NO.	CO/PBX

DATA FOR TRUNK LINES									
			TRUN	K ON / OFF	- (22)		ASSIGN RING (43)		
NO.	(41)	1A2EMUL	FORWARD	PAGE RING	TOLL FREE	VOICE MSG	DAY	NIGHT	(44)

MMC 45 TRUNK GF					OUP		
MODE	:						
GROUP NO.	:						
MEMBER	:						

THE MAXIMUM NUMBER OF TRUNK GROUP IS 11.

MMC 46		ASSIGN DISA LINE			
TRUNK NO.	DISA OPTION	VOICE MSG (42)			
MMC 50					SYSTEM TIMERS
------------	----------	-----	---------	-----	---------------
TIMER	RANGE		DEFAULT		NEW
ALM R INT	1~250	sec	025S	sec	
ALM R DUR	1~250	sec	010S	sec	
ARDL INT	1~250	sec	045S	sec	
ARDL REAL	1~250	sec	045S	sec	
CBACK NOA	1~250	sec	030S	sec	
CO CO DIS	1~250	min	010MI	min	
DISA FDG	1~250	sec	025S	sec	
DISA IDG	1~250	sec	025S	sec	
DISA RING	1~250	sec	030S	sec	
DOOR RELS	100~2500	ms	1500MS	ms	
DOR R OFF	1~250	sec	030S	sec	
FIRST DGT	1~250	sec	025S	sec	
HOOK OFF	100~2500	ms	0200MS	ms	
INTER DGT	1~250	sec	025S	sec	
MMC OUT	10~250	sec	030S	sec	
OFF R INT	1~250	sec	015S	sec	
PAGE MAX	1~250	sec	020S	sec	
RCAL DISC	1~250	ms	002MI	ms	
RCAL RING	0~250	sec	015S	sec	
RCAL WAIT	0~250	sec	015S	sec	
RCAL HOLD	0~250	sec	045S	sec	
RCAL TRSF	0~250	sec	045S	sec	
SLT F MIN	10~2500	m s	0100MS	ms	
SLT F MAX	10~2500	m s	0400MS	ms	
SMDR PULAS	1~250	sec	030S	sec	
SMDR DTMF	0~250	sec	015S	sec	

MMC 51		TON	E / RING C	ADENCE
TONE/RING	ON	OFF	ON	OFF

MMC 52	SYSTEM WIDE COUNTER
ODTION	

OPTION

COUNTER

MMC 53			T	RUNK V	WIDE TIMER
TIMER	RANGE		DEFAUL	T	NEW
CLEARING	1~25	sec	00	sec	
CO SUPV	100~2500	ms	0000	ms	
F DGT DLY	100~2500	ms	1000	ms	
FLASH PBX	100~2500	ms	0600	ms	
MFS ON TM	100~2500	ms	0100	ms	
MF OFF TM	100~2500	ms	0100	ms	
NEW CALL	100~9900	ms	2000	ms	
NO RING	1~250	sec	05	sec	
PAUSE TM	1~250	sec	003	sec	
RNG DETCT	100~2500	ms	0200	ms	

MMC 54	MAKE / BREAK RATIO
MAKE :	BREAK :

MMC 56	ASSIGN AUTO	NIGHT TIME
TABLE TYPE :		
SUB-TABLE NO.	DAY	NIGHT

MMC 57	CALL COST
UNIT COST :	

MMC 60					TOLL DEN	Υ ΤΑ	BLE	/ APF	PLY
ENTDY		APF	PLY				AP	PLY	
ENTRY	В	С	D	E	ENIRT	В	С	D	E

MMC 61	TOLL ALLOW TABLE / APPLY								
ENTRY		APF	PLY				API	PLY	
ENTRY	В	С	D	E	ENTRY	В	С	D	E

MMC 62		PBX AC	CESS CODE
PBX NO.	CODE	PBX	CODE

MMC 63	IMC 63 AUTHORIXATION CODE									
NO.	CODE	CLASS	NO.	CODE	CLASS					

MMC 64 OVERRIDE TABLE								
NO.	CODE	NO.	CODE	NO.	CODE			

MMC 65	WILD CHARACTER				
X :	Y :	Z :			

MMC	67 A	SSIGN	SYSTEM SPEED DIAL
NO.	SPEED DIAL NO.	NO.	SPEED DIAL NO.

MMC 7	70	DIAL NUMBERING PLAN					
ENTRY	NTRY ACCESS CODE ENTRY ACCESS CODE			ENTRY	ACCESS CODE		

MMC 71 / 72

KEY PROGRAMMING

NX-24E/NX-24B						
19:	20:	21:	22:	23:	24:	
13:	14:	15:	16:	17:	18:	
07:	08:	09:	10:	11:	12:	
01:	02:	03:	04:	05:	06:	

NX-6B						
01:	02:	03:	04:	05:	06:	

SKP-8	16				
09:	17:	01:	02:	03:	04:
10:	18:	05:	06:	07:	08:
11:	19:				
12:	20:				
13:	21:	N	(-AOM		
14:	22:	01	:	13:	
15:	23:	02	:	14:	
16:	24:	03	:	15:	

04:

05: 06:

07:

08:

09: 10:

11:

12:

16: 17:

18:

19:

20: 21:

22:

23:

24:

MMC 80 IO PARAMETER								
00044	COMO	XON OFF			REMOTE			
COMT	COIVIZ	COM1	COM2	SIVIDR	PORT	STN	IKAFFIC	

MMC 81 SMDR OPTION						
PAGE HEADER	LINE PER PAGE	INCOMING CALL	AUTHORX E CODE	LESS START TIME	ALARM	COMPANYN AME

