Advanced Key Telephone System

MIRACALL

User's Manual

Please read this manual before use the advanced Hybrid System

MODEL

MC-208K / MC-416K

System Components

	Model Number	Descriptions
Service Unit	**MC-208K** **MC-416K** **MC-824K**	Analog Hybrid Key Phone System (Main Unit)
Telephone	MC-1 MC-3 MC-40 MC-50 MC-3100S	32 Programmable button Key Telephone Set 32 Programmable button Key Telephone Set 21 Programmable button Key Telephone Set 21 Programmable button Key Telephone Set 6 Fixed function button Regular Telephone Set
Optional Equipment	MC-010DR	Universal Door Phone & Opener

WARNING

CHECK THE POWER SUPPLY OF THE PBX BEFORE CONNECTION, MAKE SURE IT IS SAME AS LOCAL VOLTAGE

DO NOT PLUG IN OR PLUG OUT THE ADD-ON CARD OR OTHER EQUIPMENT WHEN PBX IS POWER ON.

MAKE SURE TO CONNECT WITH GROUND FOR LIGHTNING PROTECTION

IF PBX FAILS PLEASE DO NOT MOVE OR TOUCH ANY COMPONENTS IN PBX JUST CONTACT YOUR LOCAL DEALER FOR REPAIR

DO NOT EXPOSE THE SYSTEM TO RAIN OR MOISTURE SITUATION.

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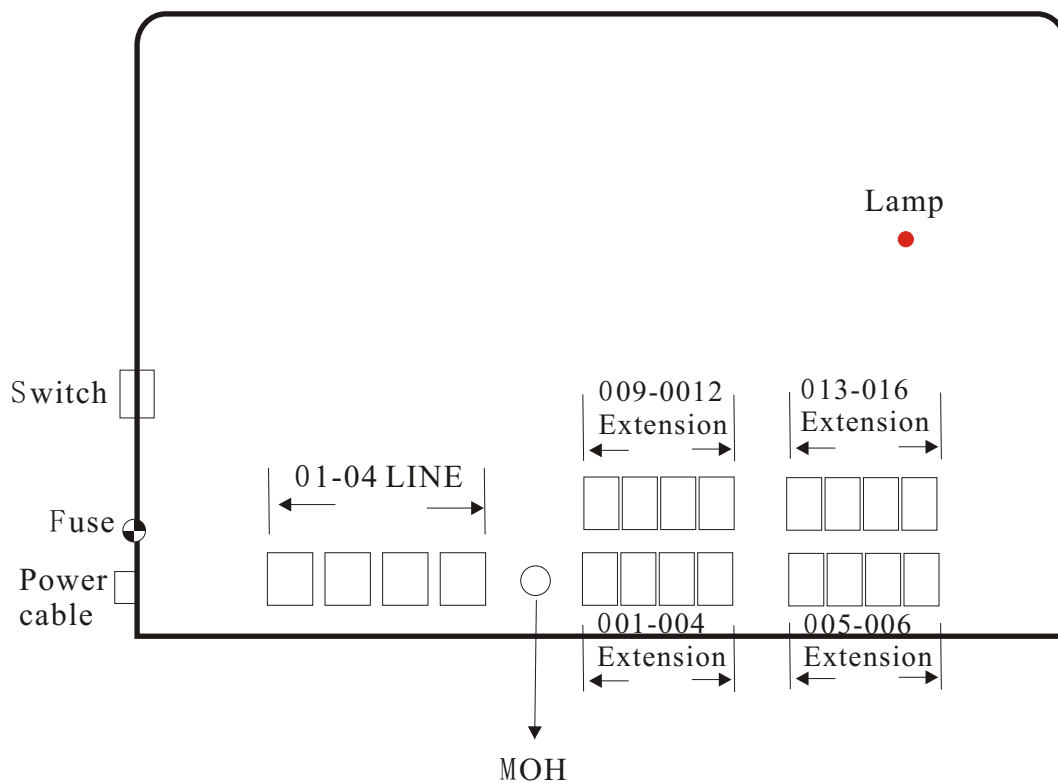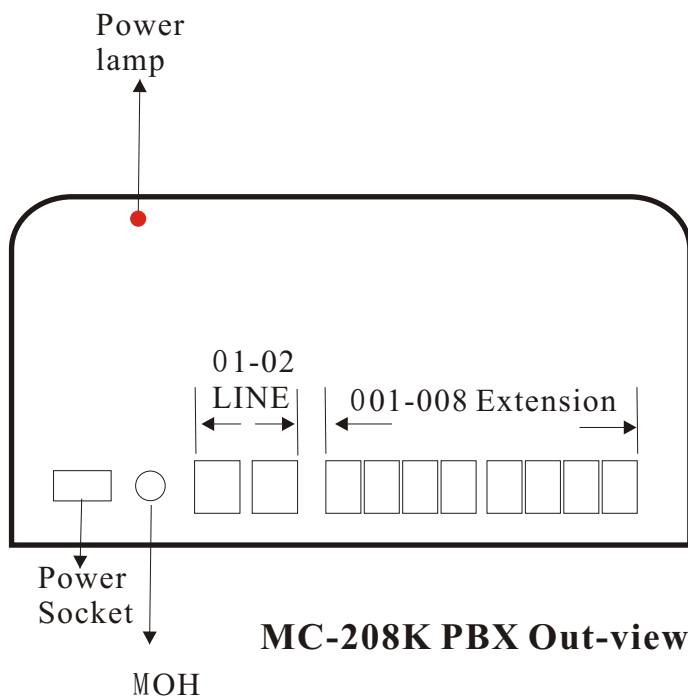# Table of Contents

PBX Outside View

Power
lamp

01-02
LINE   001-008 Extension

Power
Socket

MOH

MC-208K PBX Out-view

Lamp

Switch

009-0012   013-016
Extension   Extension

01-04 LINE

Fuse

Power
cable

001-004   005-006
Extension   Extension

MOH

MC-416K Main Board

Section 1

Operation

The chapter shows the steps how to operate system by Key Telephone Set as well as the Regular Phones

1.1   Before Operating

◆◆   *What's difference between Miracall Exclusive Key Telephone & Regular Telephone in the market?*

Exclusive Key Telephone is the phone that you can

1. Use the simple button to dial for a whole feature, such as press simple Button 9 as to dial whole extension number "8006" etc ; but if you use a regular phone, you need to dial 4-digit ,8-0-0-6 .

2. Can physically see the System Program status at the LCD of the Key Telephone, just like to see System Program in the Computer software intuitive graphic interface ! While at regular phone set, you can not see them.

3. At reception, Operator can view which extension or line is busy or free,from the color of Key Telephone buttons. Such as Blue for outside line is busy, Red for extension button isbusy. No color then no one use the line or extensions.

◆◆   *Can we use PBX without Exclusive Key Telephone ?*

Yes, you can use both telephones to Program and connect our Hybrid PBX. You can buy any brand regular phone in market to work and program .

Verzio Exclusive Key Telephone use 4-wire cable;
Regular Telephone use 2-wire cable;

1.1   Before Operating

◆◆   *Introduction of MC-1 Exclusive Key Telephone*

Incoming Lamp

| LCD |

| CHECK | | CLEAR |

| Handset |

| RLS |

1	2	3
4	5	6
7	8	9
*	0	#

| SPK |

| ANS |
| HOLD |
| MESS |
| PAGE |
| CONF |
| EAR |
| MUTE |
| TRFR |

8	20	32
7	19	31
6	18	30
5	17	29
4	16	28
3	15	27
2	14	26
1	13	25
FWDND	12	24
FLASH	11	23
REDIAL	10	22
ICM	9	21
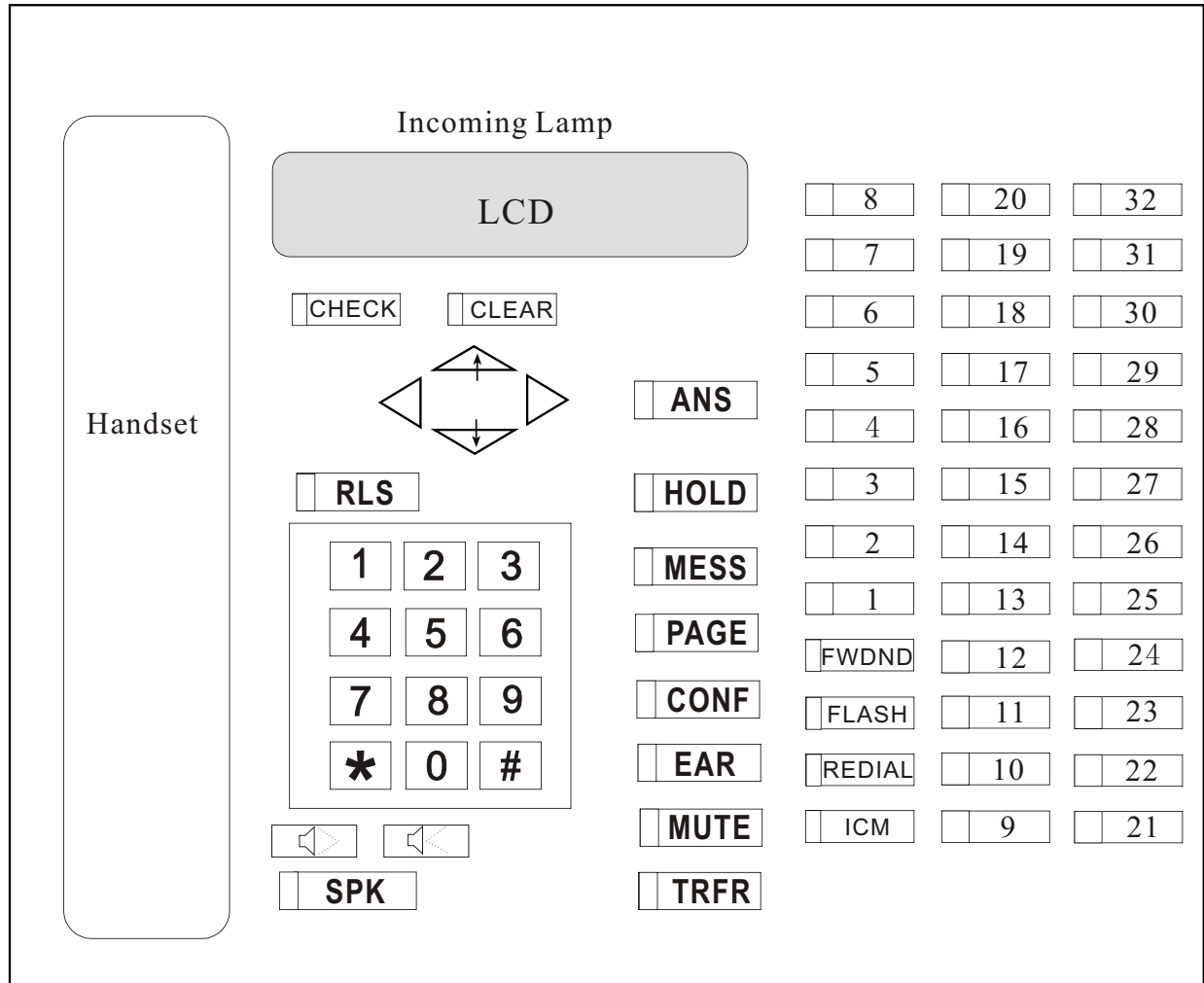
(1) **LCD display**: Date and Time; Extension; Calling Duration; Program; Calling Record; Billing Information;

(2) Flexible/function buttons: red/green LED indicators
   Button 1~8: Outside CO line
   Button 9~32: One touch key for station/ outside telephone number

(3) Function buttons:

   CHECK ---- for System program, Button program;
   CLEAR ---- to clear the System program code or exit from program;
   ANS ---- answer a call in earphone mode;
   RLS ---- hand up the conversation in hand-free, earphone mode etc;
   HOLD ---- to hold a call (call splitting) or save the new System program;
   MESS ---- no use at present;
   CONF ---- conference calls
   PAGE ---- for the system paging;
   EAR ---- switch to earphone pickup mode, no voice if pick up handset;
   MUTE ---- Press it : when off-hook is microphone mute ; on-hook is auto-answer;

1.1   Before Operating

(3)   MC-1 Key Telephone Function buttons:

TRFR ---- to transfer call, when on-hook is switch to night mode;
SPK ---- to open or close the hand-free ,that is, to start a call dialing or hand-off;
FWDND ---- for call forward or do not disturb;
FLASH ---- to cut off the conversation without hand up;
REDIAL ---- to redial a number or for a pause during the time you are dialing the number;
ICM ---- intercom calls;

◁▷ ◁◁ ---- Volume control: hand-free, handset, earphone, incoming ring;

↓ ↑ ---- Check and page up /down the incoming call numbers;

◆◆   *Introduction of MC-3 Exclusive Key Telephone*

（8）   （9）（10）

（2）

（3）

（1）

（4）

（5）

1 2 3
4 5 6
7 8 9
0 #

↓   ↑
FLASH REDIAL
PAGE CONF MUTE
HOLD LINE INT TRF SPKR

（7）

（6）
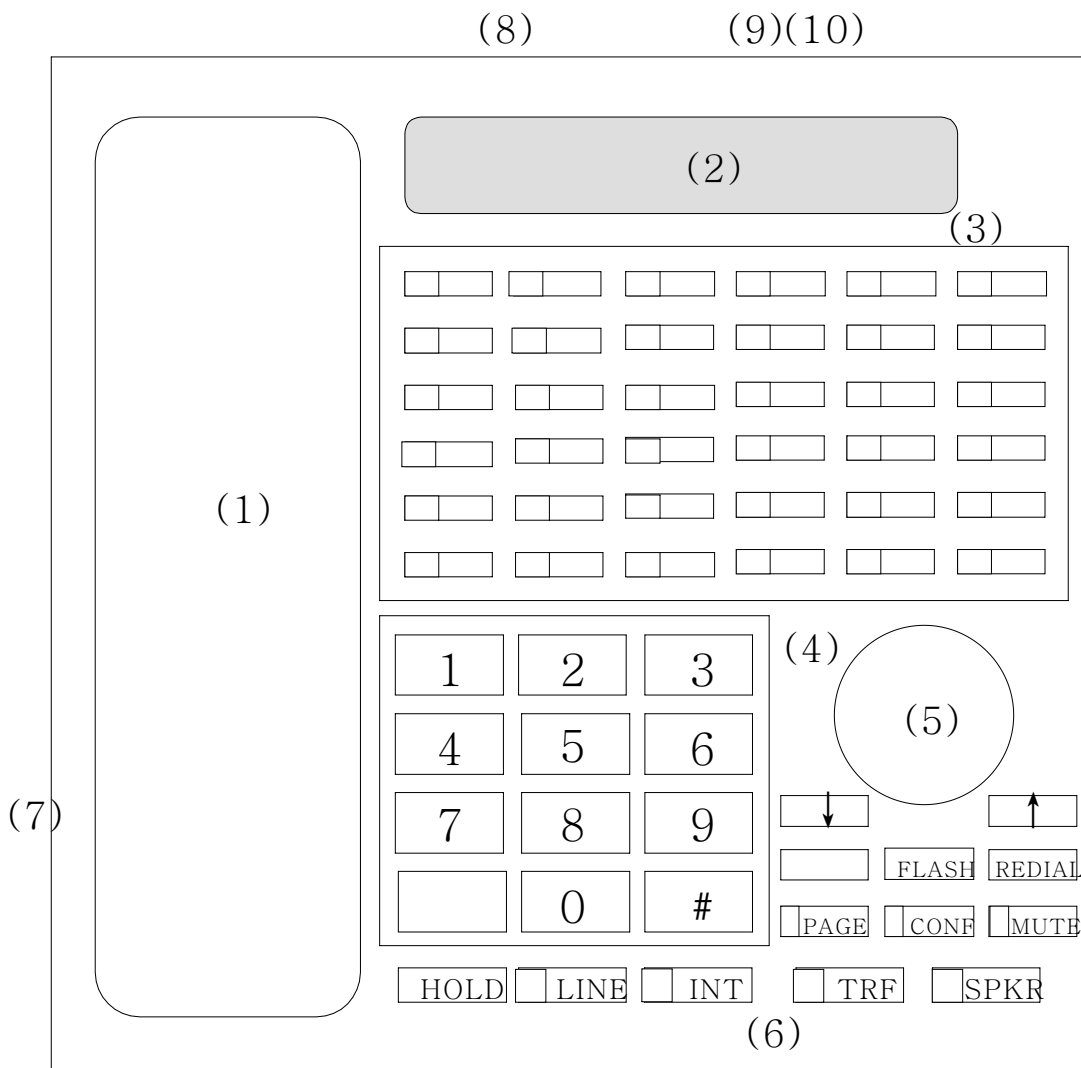
1.1   Before Operating

◆◆   *Introduction of MC-3 Exclusive Key Telephone*

(1) Handset

(2) LCD display: Date and Time; CO Number; Calling Duration; Program; Calling Record; Billing Information;

(3) Flexible/function buttons: red/green LED indicators
   Button 1~8: CO line
   Button 9~32: One touch key for station/ outside telephone number
   Button 33: FNC - Access to the system program status or to the extension program status;
   Button 34: CLEAR - to check and cancel the programs, or exit;
   Button 35: DND - to set do not disturb or call forwarding or system speed dialing;
   Button 36: SCROLL - to switch between the DSS Console(page up /down);

(4) Dial pad

(5) Panel display light switch

(6) Function buttons:
   FNC---- For entering System Program, Button Program,same as CHK (CHECK);
   FLASH ---- to switch the COs for moment (transfer a call);
   REDIAL ---- to redial a number or for a pause during the time you are dialing the number;
   PAGE ---- for the system paging;
   MUTE ---- for the mute of hand-free;
   CONF ---- conference calls
   SPKR ---- to open or close the hand-free ,that is, to start a call dialing or hand-off;
   TRF ---- to transfer an incoming call or intercom call;
   INT ---- intercom calls;
   LINE ---- to choose an available CO lines(outside lines);
   HOLD ---- to hold a call (call splitting);

(7) Handset socket

(8) Telephone set socket

(9) DSS1 terminal (1~64)

(10) DSS2 terminal (65~128)

1.1 Before Operating

◆◆ *Introduction of MC-40,50 Exclusive Key Telephone*

```
                                    ┌──┐┌──┐
                                    └──┘└──┘
                                   Incoming lamp

   ┌─────────┐        ┌─────────────┐      ┌──┐ ┌──┐ CHK
   │         │        │             │      └──┘ └──┘
   │         │        │ LCD Display │      ┌──┐ ┌──┐ CLR
   │         │        │             │      └──┘ └──┘
   │         │        └─────────────┘
   │         │
   │ Handset │    │1│ │2│ │3│ │4│ │5│ │6│
   │         │
   │         │    │7│ │8│ │9│ │10││11││12│
   │         │
   │         │    │13││14││15││16││17││18│
   │         │                       FWDND
   │         │    │19││20││21│ LINE │  │ ICM
   │         │
   │         │    ┌─┐ ┌─┐ ┌─┐    ┌─────┐ ┌──────┐
   │         │    │1│ │2│ │3│    │FLASH│ │REDIAL│
   │         │    └─┘ └─┘ └─┘    └─────┘ └──────┘
   │         │    ┌─┐ ┌─┐ ┌─┐    ┌─────┐ ┌──────┐
   │         │    │4│ │5│ │6│    │CONF │ │ PAGE │
   │         │    └─┘ └─┘ └─┘    └─────┘ └──────┘
   │         │    ┌─┐ ┌─┐ ┌─┐    ┌─────┐ ┌──────┐
   │         │    │7│ │8│ │9│    │MUTE │ │ SPK  │
   │         │    └─┘ └─┘ └─┘    └─────┘ └──────┘
   │         │    ┌─┐ ┌─┐ ┌─┐    ┌─────┐ ┌──────┐
   │         │    │*│ │0│ │#│    │HOLD │ │ TRFR │
   │         │    └─┘ └─┘ └─┘    └─────┘ └──────┘
   └─────────┘
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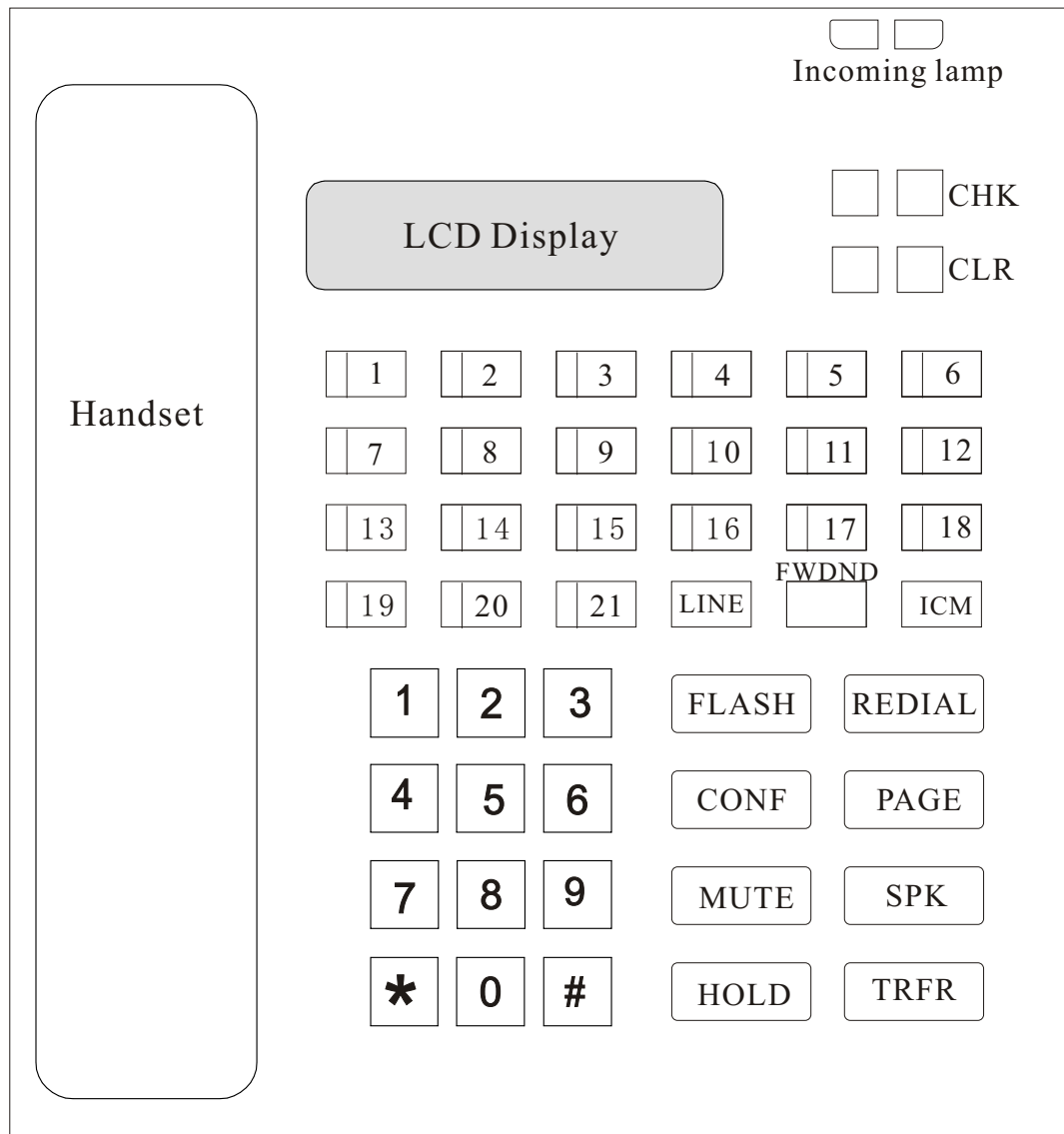
FLASH ---- to hand up a conversation without put handset;
REDIAL ---- to redial a number;
LINE ---- to choose an available outside lines;
FWDND ---- Call forwarding or Do Not Disturb
ICM ---- intercom calls;
CHK---- for System Program , Button Program
CLR---- Clear the program or exit;
CONF ---- Conference calls
PAGE ---- for the system Page;
MUTE ---- for the Mute of hand-free; or close the voice during conversation;
SPK ---- to open or close the hand-free ,that is, to start a call dialing or hand-off;
HOLD ---- to Hold a call (call splitting); or save the new System Program;
TRFR ---- to Transfer a call ;or transfer mouse curse during system program;
Button 1~21 : are for CO Line and extensions and also for programmable DSS buttons;

1.2   Make Calls

1.2.1   Basic Calling

- Intercom Call
- Call Operator
- Call Outside

◆◆   *Intercom Calling*

The extension call to other extension.

Operate

Extension no.
or

(*DSS*)

Pick up   Key Phone: Dial extension no. or *DSS*   Talk
handset   Regular Phone: Dial extension no.
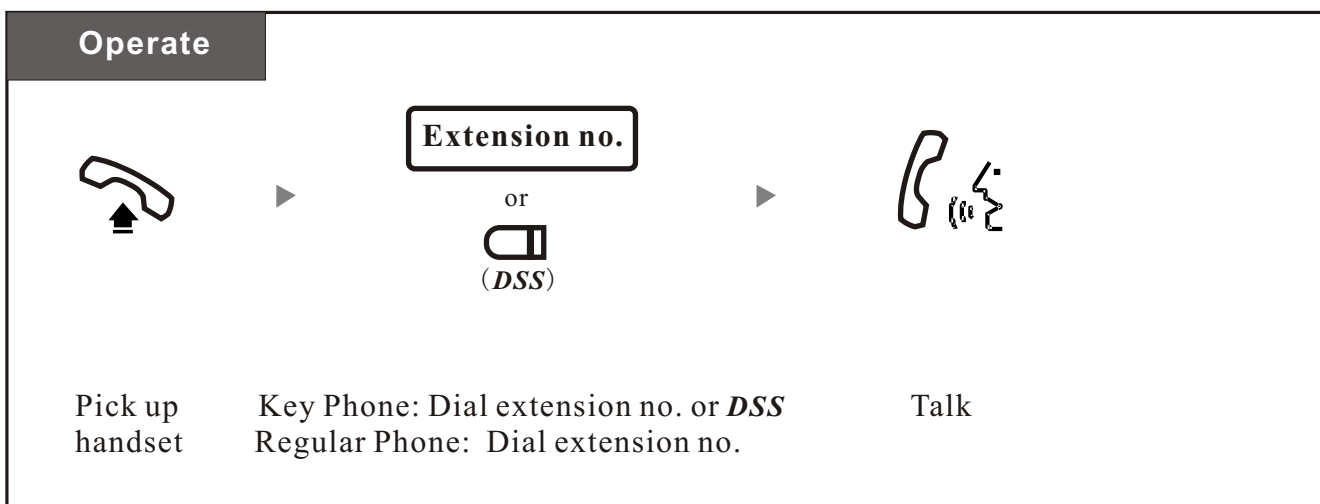
☞   Extension no. : It means numbers 8001,8002,8003 ~8064 ;

☞   DSS: the flexible programmable button at Key Telephone.
          Example: Button 1 is CO1; Button 6 is Extension 8006 etc.

DSS button: Press *CHK* 2times, and then press DSS 1~21/ 32 . You can see the means
          for each button in Key Telephone LCD

DSS button Program : Press *CHK* 2times + Program Button (1~21 or 32),then :
          Press 2 + XXXX: to set Extension Number at the button;
          Press *HOLD* to save the program.

1.2   *Make Calls*

◆◆ *Call Operator*

The extension call to Operator /Reception extension.

Any Telephone

Off hook   Dial "0"   Talk
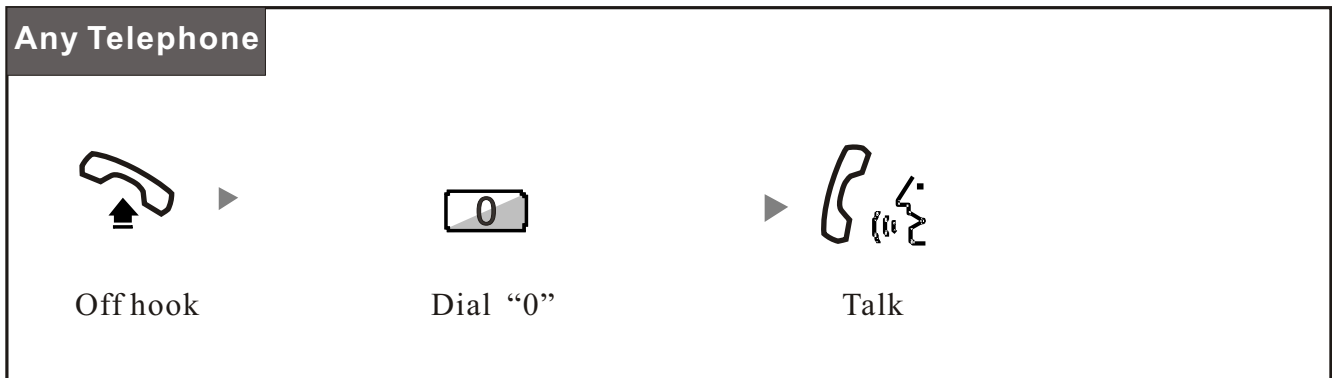
◆◆ *Call Outside*

0

The extension call to outside telephone number .

Operate

9
or
3 X
or
(*DSS*)   **Outside no.**

Off hook   Any Telephone: dial "9"   Dial Outside   Talk
                     or 31~32   Telephone no.
         Key Phone : dial *DSS* button
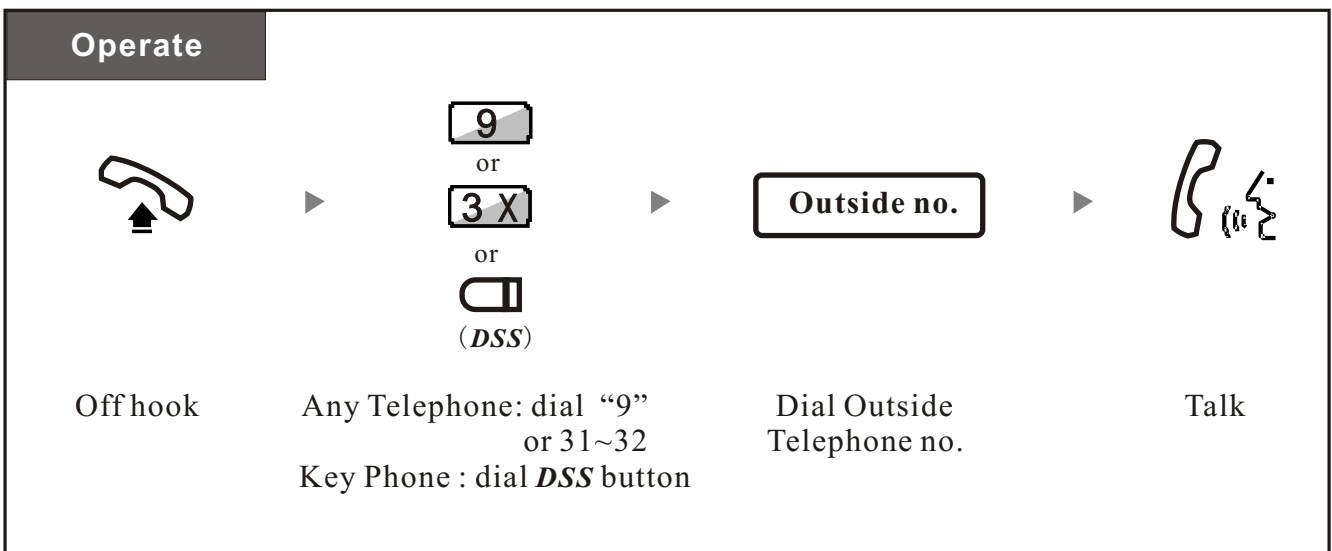
☞   Any Telephone: It refer to Regular Phone or Key Telephone;

Dial "9" : System will auto-select any idle free Outside Line;
Dial "31~32": System will directly select desired Outside Lines 1~2;
Dial *DSS*: It can directly select the Outside Lines at Key Telephone.

1.2　Make Calls

1.2.2　Hotline Dialing

◆◆ *Hotline Dialing*

Pick up the handset and you can call to a fixed extension without dial their number.

Regular Phone

Off hook　　　　　　　　　Talk after few seconds

Set up the hotline extension number.

Set Up

（**ICM**）

| 7 | 6 | 2 |

or

| # | 7 | 6 | 2 |

Extension no.
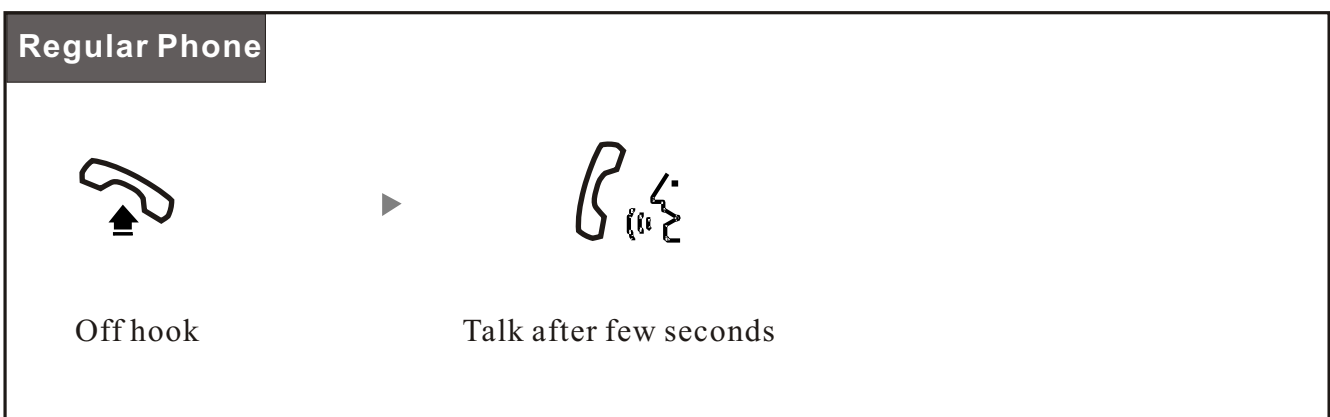
Off hook　　Key Phone : input ***ICM*** +762　　Input Extension　　On hook
　　　　　　Regular Phone: dial #762　　　　　Number
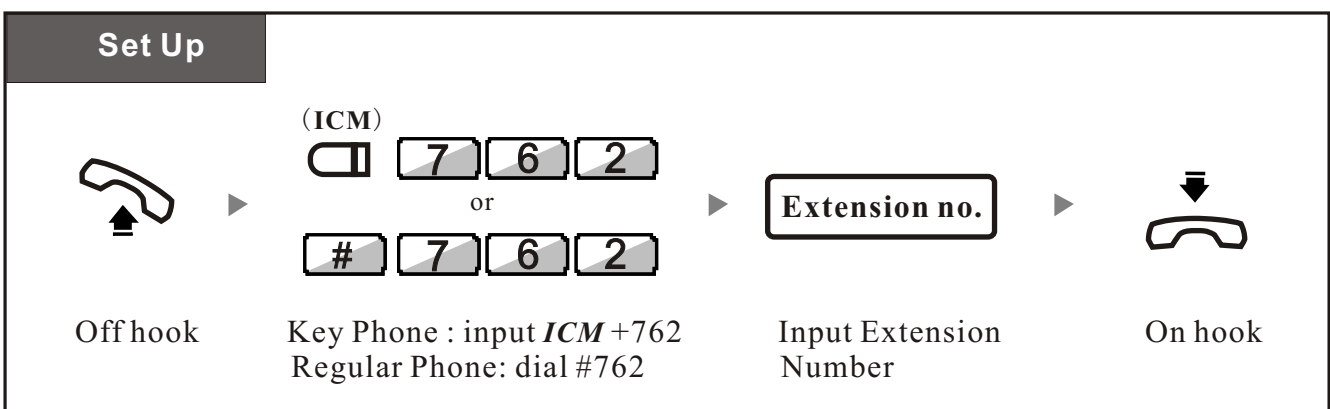
1.2   Make Calls

Cancel the hotline extension number.

Cancel		
Off hook	(**ICM**) □ 7 6 0 # or # 7 6 0 # Key Phone : input ***ICM*** +760# Regular Phone: dial #760#	On hook
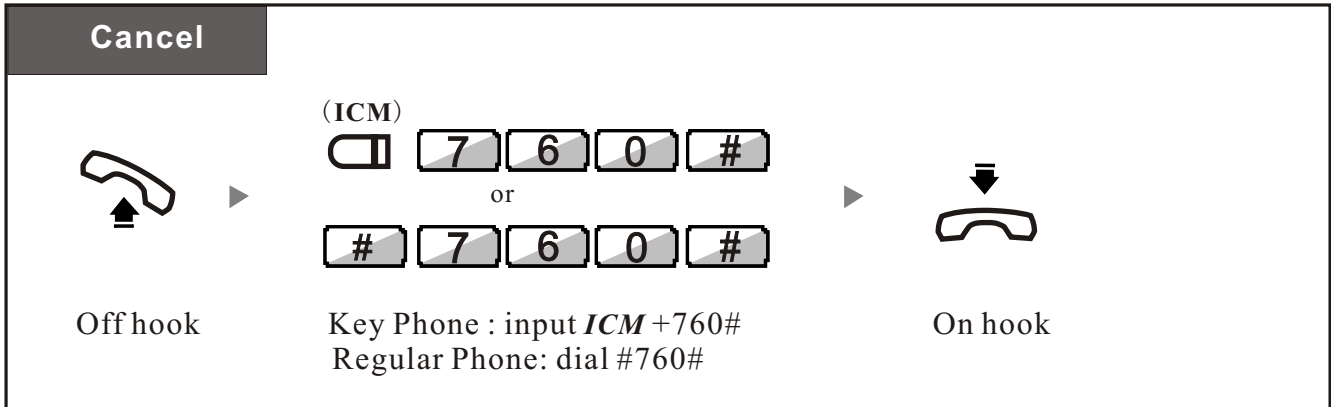
☞   The PBX should be in intercom status when pick up handset;

Can not set hotline ring to Outside number, only for intercom extension number.

This feature is very useful to use at Elevator or Massage room etc.

1.2.3   Last Number Redial

◆◆   ***Last Number Redial***

You can dial the last number again by quickly press Re-dial button.

Redial number		
Off hook	(***REDIAL***) □	Talk
	dial ***REDIAL*** button	
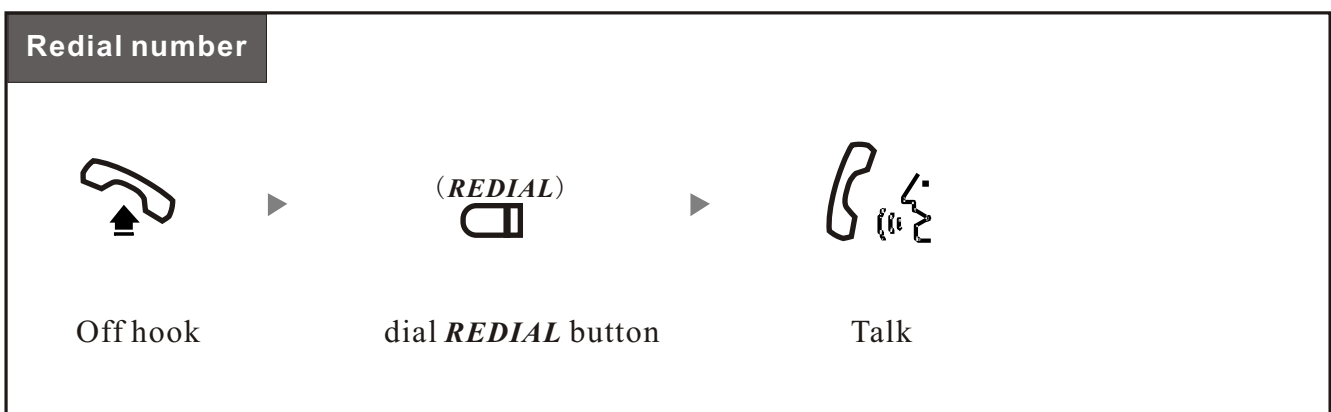
1.2   Make Calls

1.2.4   When Dialed Party is Busy or No-answer

- Automatic Callback on Busy
- Call Override
- Call Cut-off

◆◆ *Automatic Callback on Busy*

You can set the telephone to receive callback ringing:
     when a dialed extension becomes idle,
     when your desired Outside Line that is in use by another extension becomes idle.
When you answer the callback ringing:
     For an outside call: The line is seized.
     For an intercom call: The called extension starts ringing automatically.

Set up call-back on busy for Extension-busy and Outside line -busy.

Set Up			
Off hook	Ext or Outside Dial extension or select Outside Line and hear busy tone	6 Input "6"	On hook
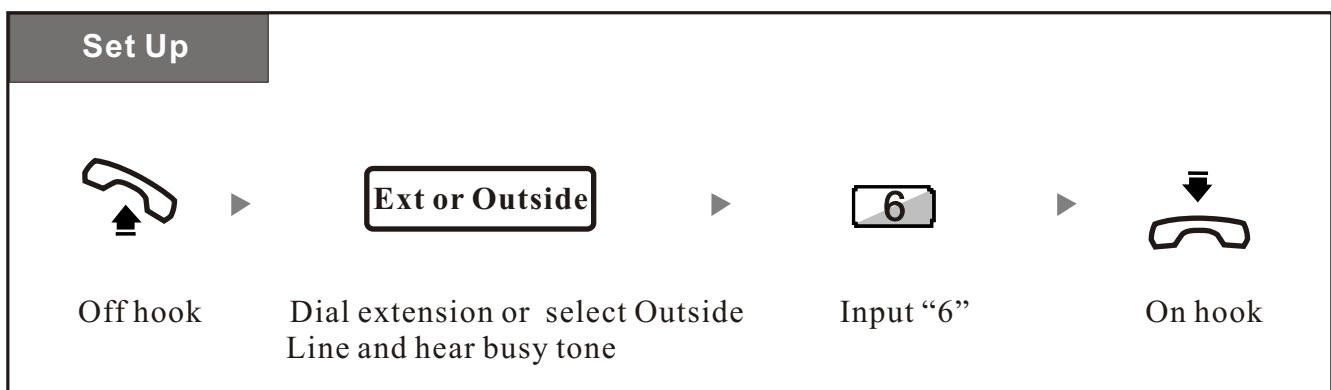
1.2 Make Calls

When there's call back ringing, simply pick up the extension to talk with back extension party, or you will hear outside dialing tone when the busy outside line become idle.

Operate

When hearing a callback ringing:

▶ ***Talk with Extension***

or hear

▶ ***Outside dialing tone***

▶

Off hook   Talk with extension   On hook
or dial the outside number
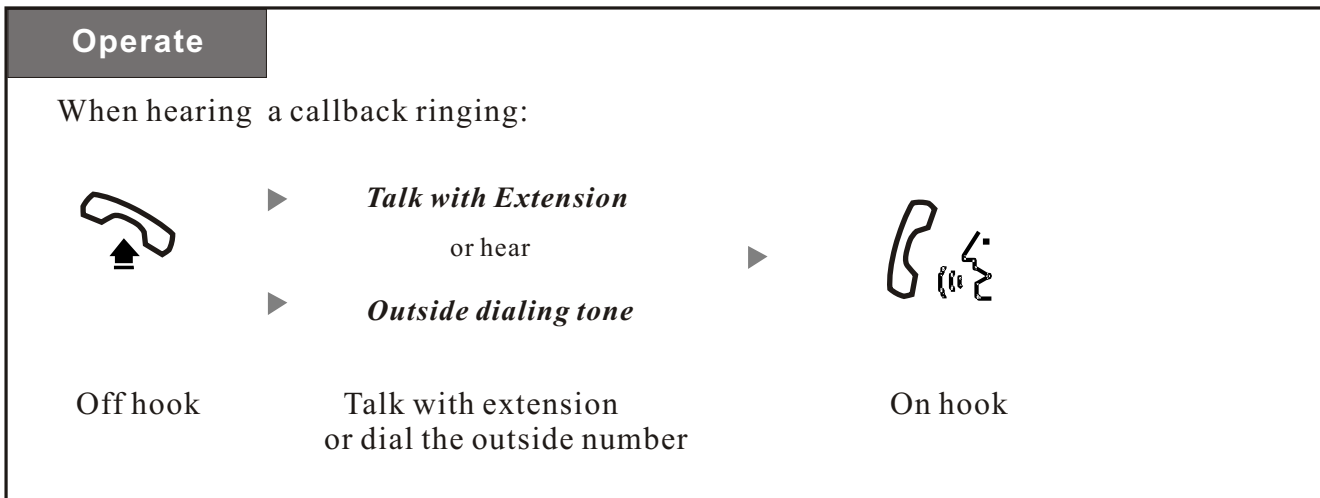
☞ You can talk with the idle extension or use the idle outside line .

After 5 rings the ringing back call will be cut off if no one pick up it.

◆◆ ***Call Override***

You can insert into an Outside Line conversation to establish 3-party conference call.

All Telephone

▶ **Extension no.**

or

3X

▶ **1** ▶

Off hook   Dial extension number   Hearing busy tone   Insert into a
or 31~32 to select   and input "1"   3-party call
Outside Line Number
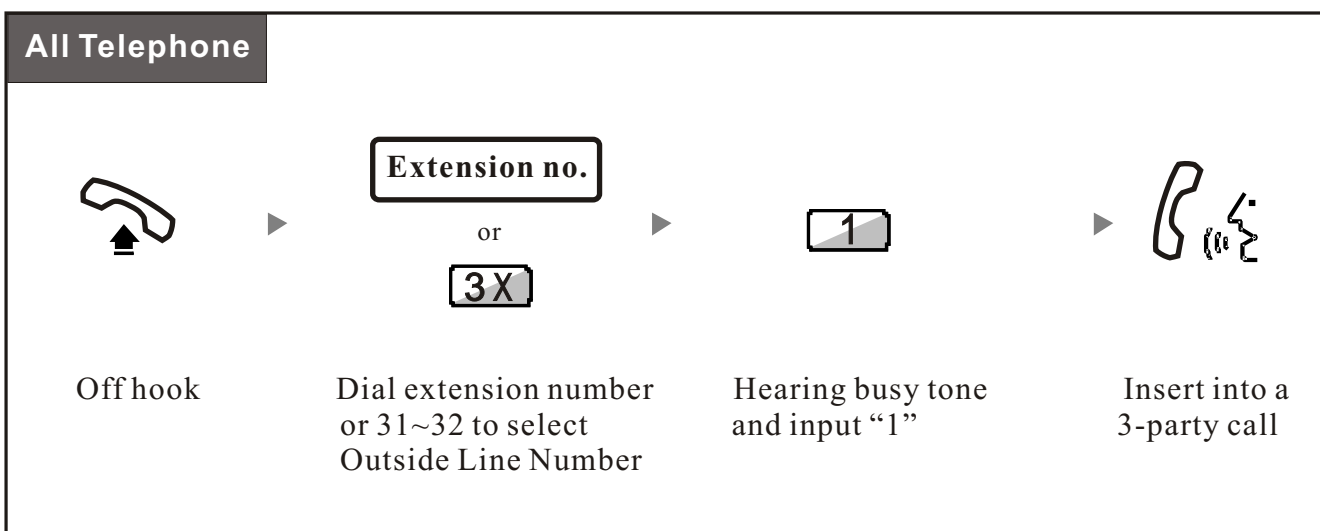
☞ 3X: X=1~2, to use this code to select the Outside Line;
You can not insert into an Intercom conversation;

1.2 Make Calls

◆◆ Call Cut-off

You can cut off an Outside Line conversation.

All Telephone

Off hook ▶ **Extension no.** ▶ **✳**

Off hook   Dial extension number   Input "✳"
                  and hear busy tone
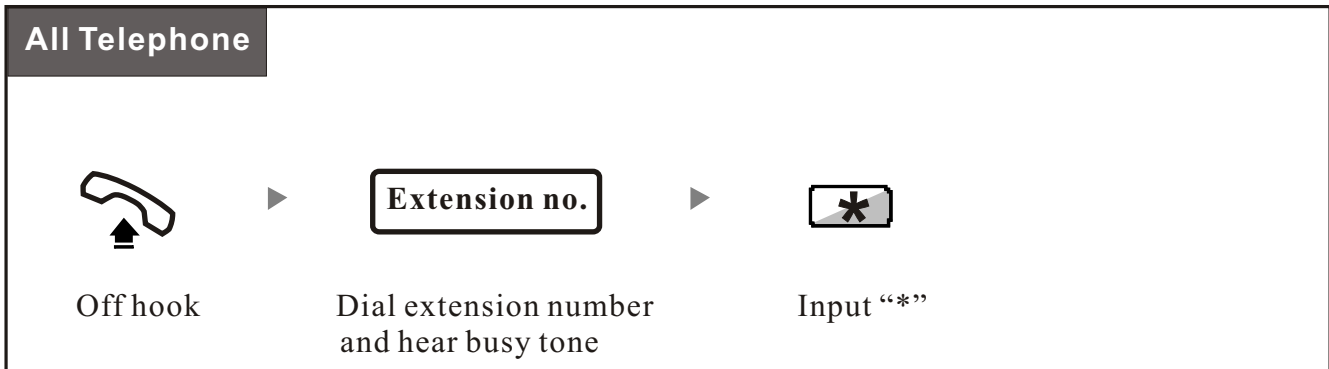
☞ You can not insert into an Intercom conversation;
To enable extension (ABC) with Call Cut-off function:
  by Key phone: *CHK* 3times > 1967590 > 22 > ABC-*TRFR* - 31010 -*HOLD*
  by Regular phone: Hand-up > #787-1967590-22 ABC✳31010 #

1.2.5 Direct Inward System Access (DISA)

◆◆ Calling to Extension Through DISA

Through the DISA welcome message, the outside party can call to the desired extension number without the transfer of Operator;

Outside Party to Extension:

Operate

Hello,this is xxxx company,please dial extension number

Your Office no. ▶ Hear welcome message ▶ **Extension no.** ▶

Dial into   Dial extension number   Talk
office no.
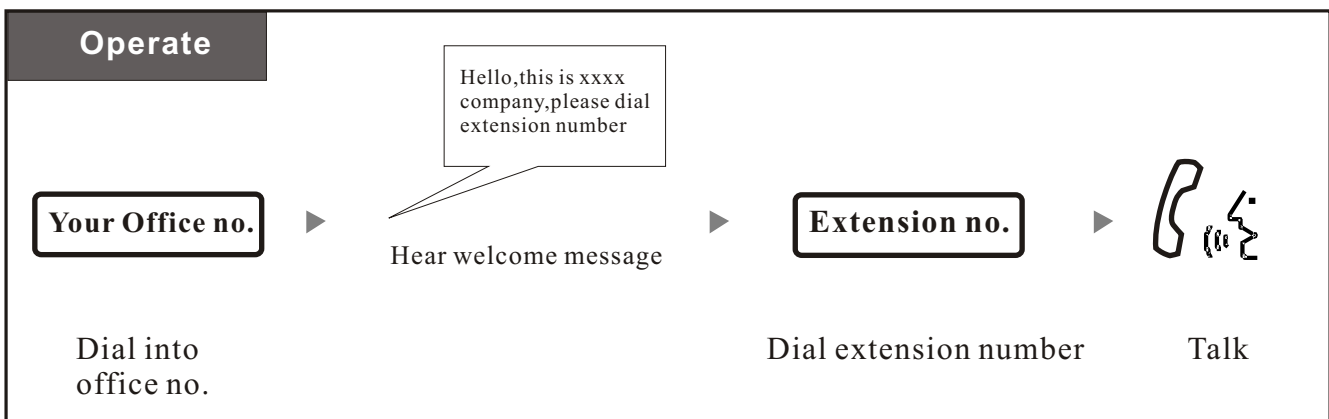
1.2 Make Calls

1.2.6 Calling with Account PIN Code

◆◆ **Walking Account Code Call**

After getting an account code from the manager, you can use this code to make long distance call in any other extensions without the limitation of the Toll Restriction. All the cost will be charged at this account code, not charged at the extensions.

Operate

▶ (*ICM*) `#` `#` `*` `*` **Password no.** `9` **Outside no.**

or dial

▶ `#` `#` `*` `*` **Password no.** `9` **Outside no.**

Off hook   Key phone: *ICM* + ##** password + 9 + outside line number   ▶

Regular phone: ##** password + 9 + outside line number

☞   You can assign total 255 password for different person.

To program password:
     by Keyphone: *CHK* 3times > 1967590 > 20 > (001~255) > ABCDE# > Y > Z

     001-255: selectable series number;
     ABCDE: desired password;
     Y = 1~6 ,means Toll Restriction Class 1~6;
     Z = 1~4, means different group to use different outside line.

The cost will be charged at the account ABCDE, not at the extension;

Within 10 seconds after hand-on, you can still use the password to make long-distance call.

1.3   Receiving Calls

1.3.1   Answering Calls

◆◆ *Answering Call by lift Handset*

Simply pick up the ringing extension to answer the incoming call.

Operate

Ringing ▶ Pick up handset ▶ Talk
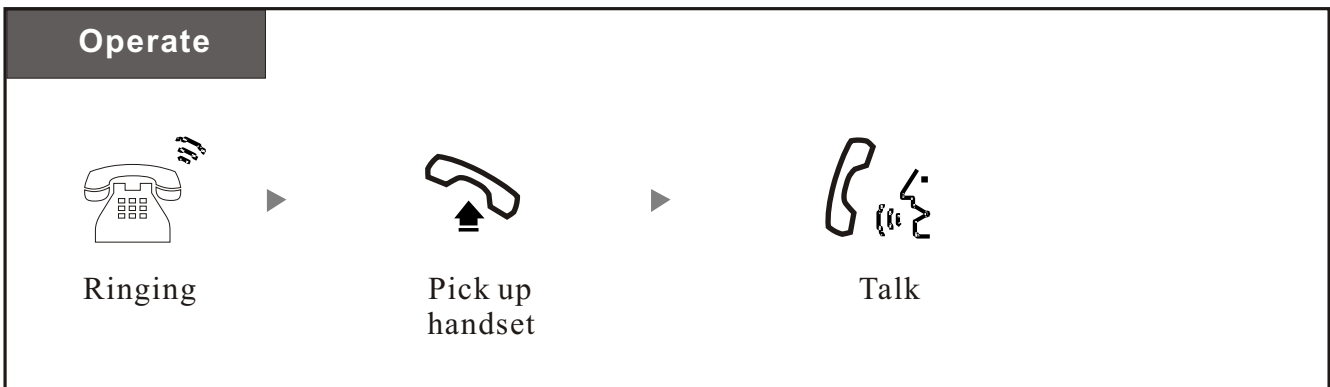
◆◆ *Answering Call by Handfree*

Without lift the handset to answer the incoming call.

Operate

Ringing ▶ (*SPK*) or (*HANDFREE*) ▶ Talk

Ringing   Keyphone: press *SPK* or *DSS*   Talk
            Regular phone: press *HANDFREE*
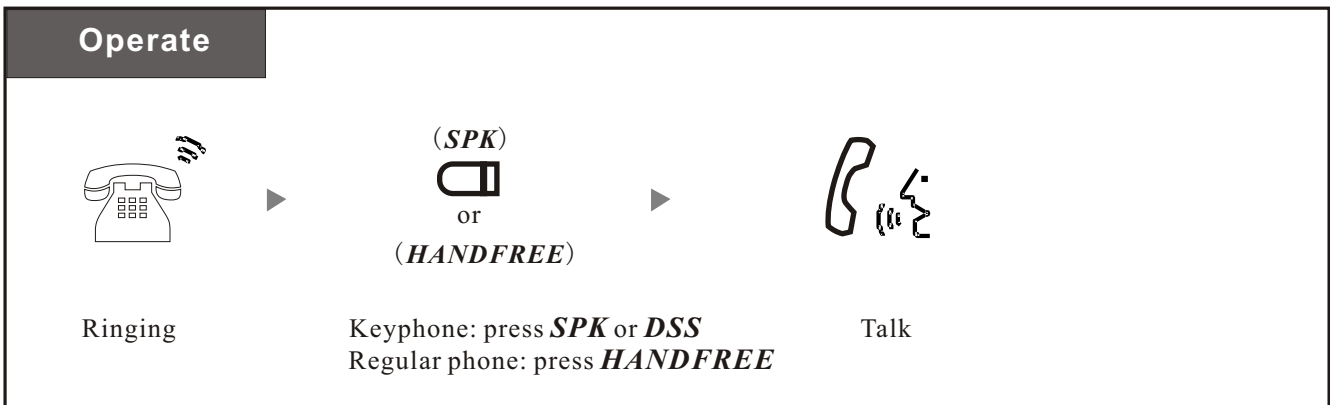
1.3   Receiving Calls

◆ *Answering Call by MUTE/ Auto-answer*

You will automatically receive the call and hear Caller 's conversation in on-hook mode.

Operate
  ☎️ ▶ （*MUTE*） On hook   Press ***MUTE*** button
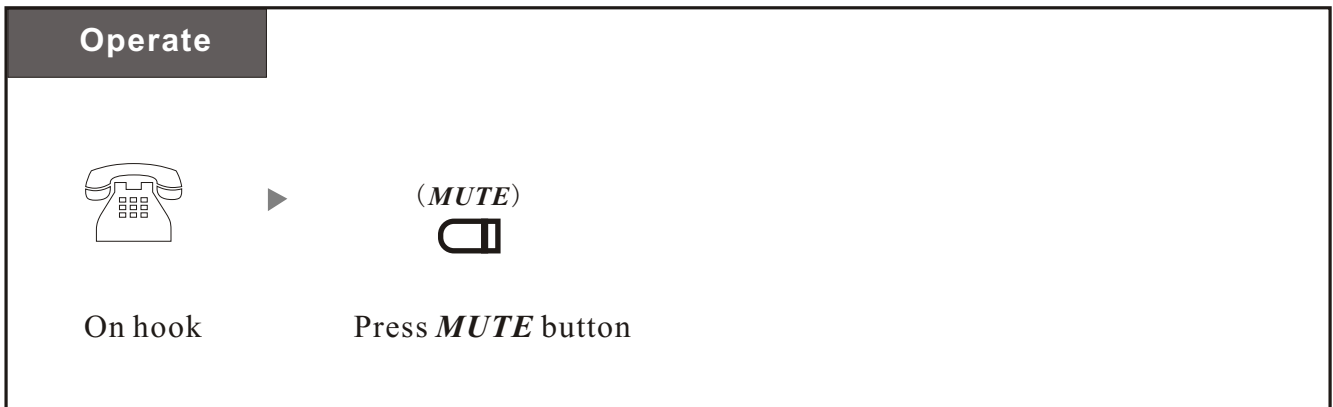
☞   If during conversation and press ***MUTE***, then the Caller will not hear your voice;

     To cancel: press ***MUTE*** again;

1.3.2   Call Pickup

You can answer an incoming call that is ringing at other extension:

− Randomly Pickup: pick up a ringing extension randomly;
− Group Pickup: pick up a ringing extension within same group,
               System can set max. 2-group. Refer to System Program 24;
− Directed Pickup: pick up a specified ringing extension ;

1.3   Receiving Calls

◆◆ *Randomly Pickup*

Can pick up the extension which firstly ring .

Operate

When extension is ringing:

[✱]

or

(*ICM*) [4] [0]

or

[#] [4] [0]

Off hook   Key phone: *ICM* + 40 or simply dial "*"   Talk
                  Regular phone: # + 40 or simply dial "*"
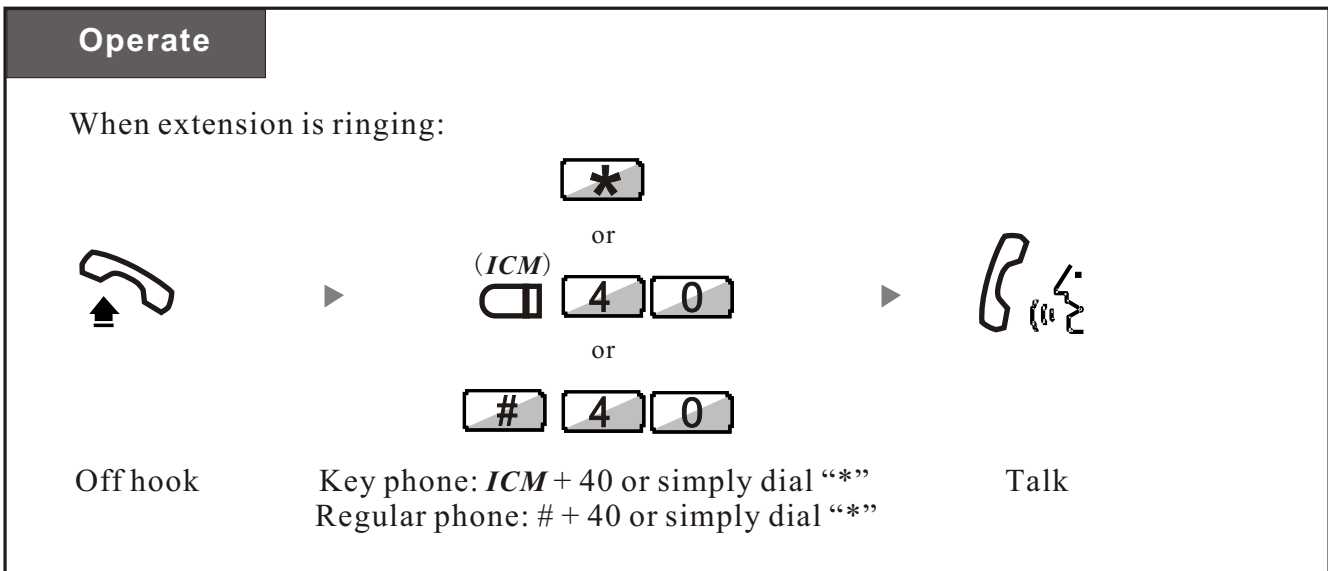
◆◆ *Directed Pickup*

Can pick up the specified ringing extension .

Operate

When extension ABC is ringing:

(*ICM*) [4]

or

[#] [4]   Ext. ABC

Off hook   Key phone: *ICM* + 4 + extension no.   Talk
                  Regular phone: # + 40 + extension no.
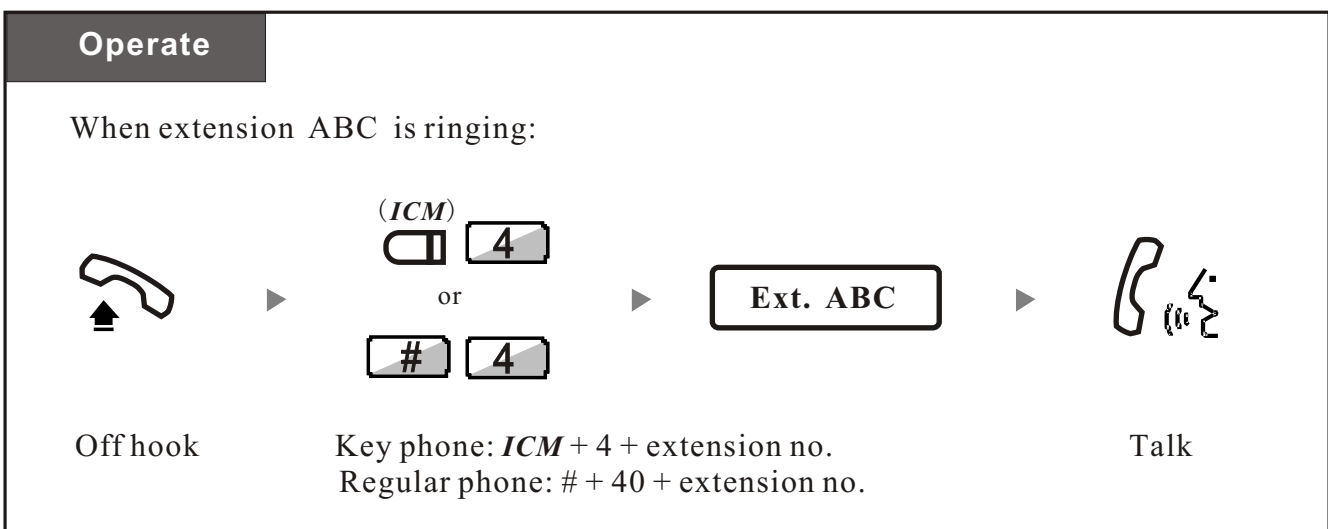
1.3   Receiving Calls

◆◆ *Group Pickup*

You can only allow to pick up the ringing extension within your own group, can not pick up extension outside or in another group (total 4 group max, use same code above to pick up) .

☞   To set by Keyphone: *CHK* 3times > 1967590 > 24 > 1~4 *TRFR* - 001~064 - 1 or 0

1~4: selectable 1~4 pickup group;
001~064: extension numbers to join or exit from group;
1 or 0 : "1" means join the group, "0" means exit from the group;

1.3.3   Do Not Disturb (DND)

The call will not ring to your extension after set DND feature

---

Key Phone

（*FWDND*）

On-hook   Press *FWDND*

（*ICM*）   7   0   #

To cancel: Press *ICM* + 70#

Regular Phone

7   1   1   0

Off-hook   To Setup: Press #7110#   On-hook

7   0

Off-hook   To Cancel: Press #70#   On-hook

1.4　During a Conversation

1.4.1　Call Transfer

◆◆ *Call Transfer*

You can transfer the conversation to other extension party.

Operate

During a conversation:

Key phone ▶ （*TRFR*) ▶ （*DSS*) or **Extension no.** ▶ On hook

Regular phone ▶ Hook-flash ▶ **Extension no.** ▶ On hook

Key phone: press *TRFR* + DSS or Extension no.
Regular phone: Flash + Extension no., Hand up
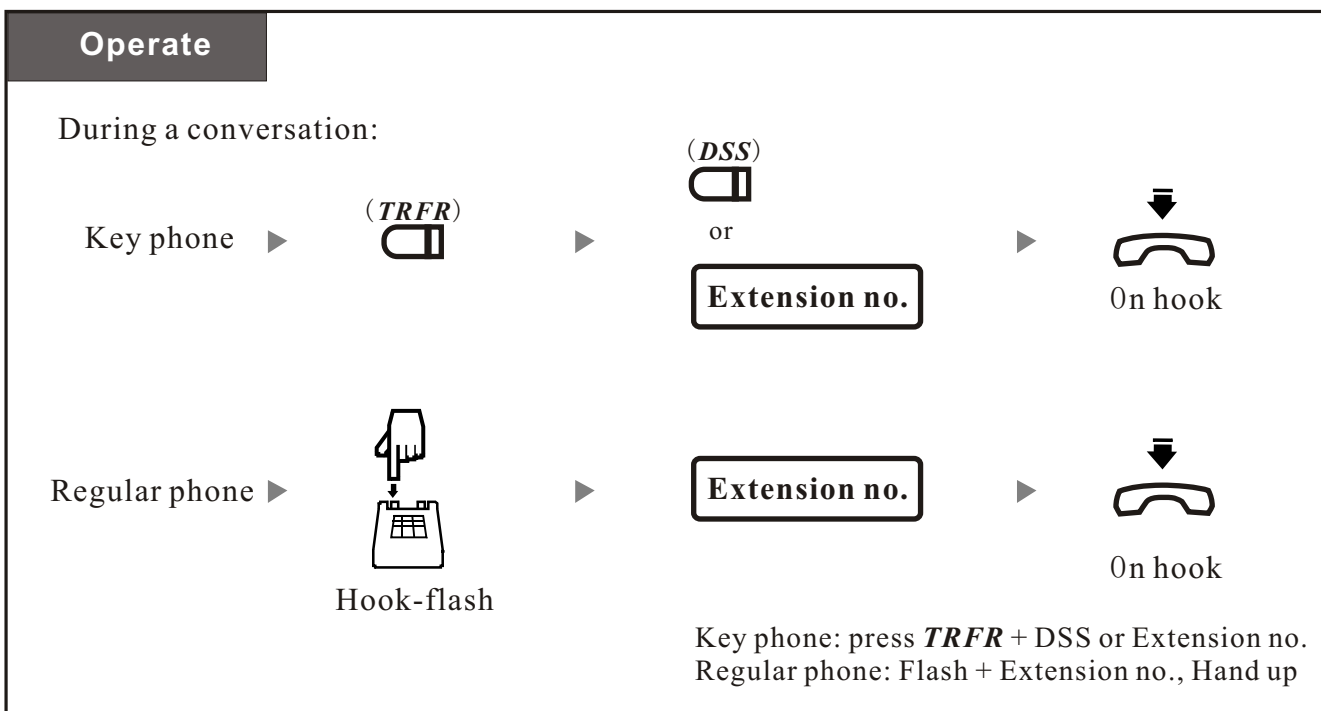
◆◆ *One-touch Transfer*

By key phone, you can use only a single DSS button to transfer the call.

Key Phone

During a conversation:

（*DSS*) ▶ Talk ▶ On hook

Press DSS　　　　Talk　　　　On hook
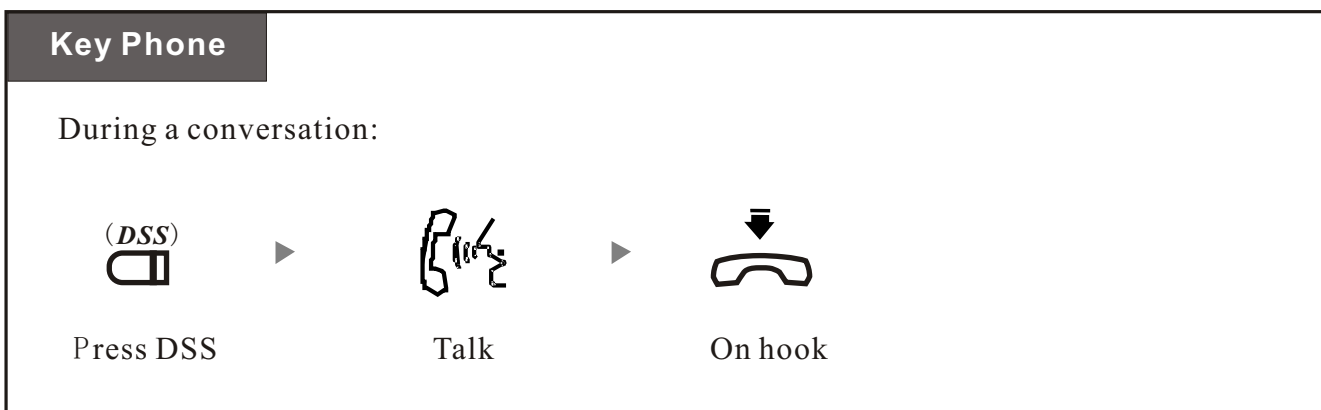
1.4　During a Conversation

1.4.2　Call Hold

- Call Hold
- Call Hold Retrieve

◆◆ *Call Hold*

You can hold the call party during conversation.

Operate

During a conversation:

Key phone ▶ （*HOLD*） ▶ On hook

Regular phone ▶ Hook-flash ▶ Press #4 ▶ On hook
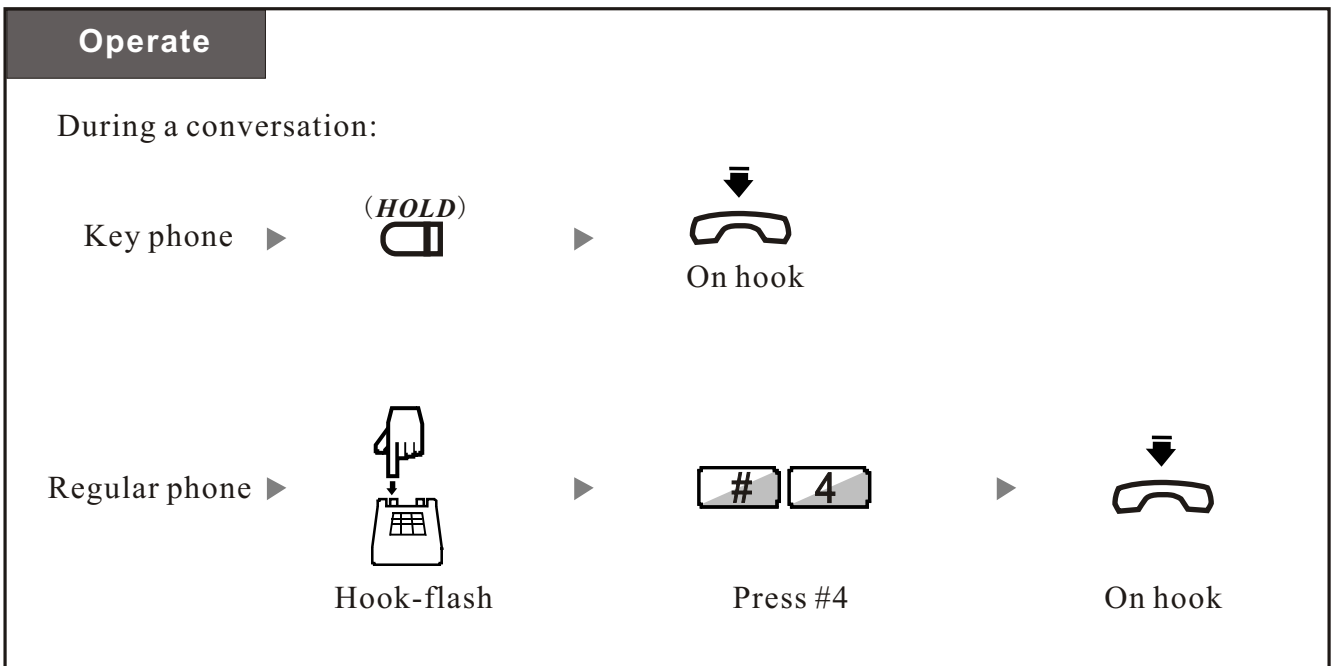
◆◆ *Call Hold Retrieve*

You take back the holding party and continue the conversation.
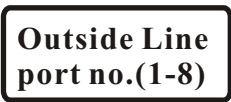
1.4   During a Conversation

◆◆ *Call Hold Retrieve*

Key Phone

Retrieve from holding extension: ▶   (ICM)   ▶   5   5
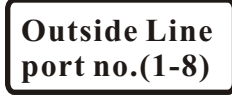
Retrieve from specified extension: ▶   (ICM) 5   ▶   Extension no.

Retrieve from specified outside line:▶   (ICM) 5 3   ▶   Outside Line port no.(1-8)

Regular Phone

Retrieve from holding extension: ▶   📞   ▶   # 5 5

Retrieve from specified extension: ▶   📞   ▶   # 5   ▶   Extension no.

Retrieve from specified outside line: ▶   📞   ▶   # 5 3   ▶   Outside Line port no.(1-8)

1.4   During a Conversation

1.4.3   Call Waiting

During conversion, a call waiting tone occur when an outside call has been received or another extension will remind you there's a call waiting.

- To disconnect the current call and talk to the new party
- To Hold the current call and talk to the new party

◆◆ *Disconnect Current and Talk to New Party*

All Telephone

On hook ▶ Off hook ▶ Talk to new Party

◆◆ *Hold Current and Talk to New Party*

Key Phone

During a conversation:

（*HOLD*）

Press *HOLD* ▶ （LINE） or （ICM） ▶ Talk to new Party

Press *LINE* or *ICM*
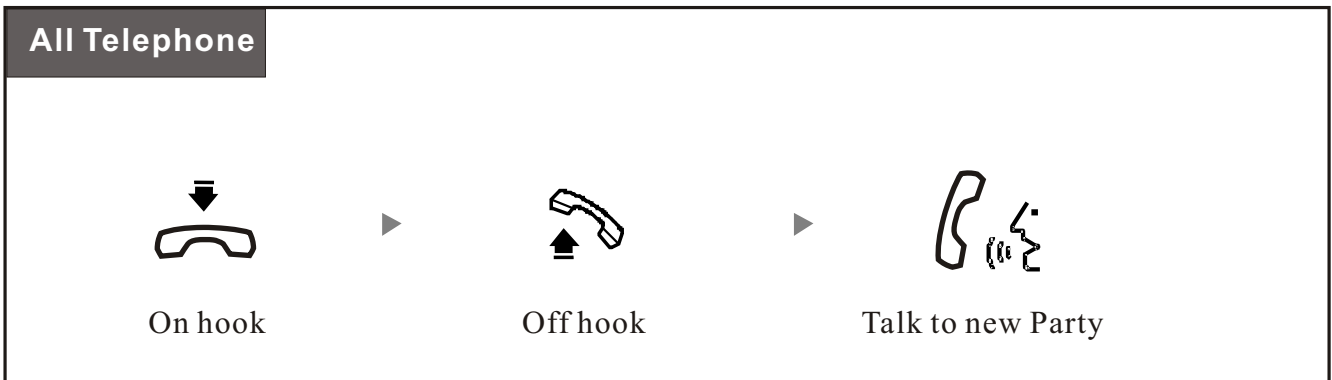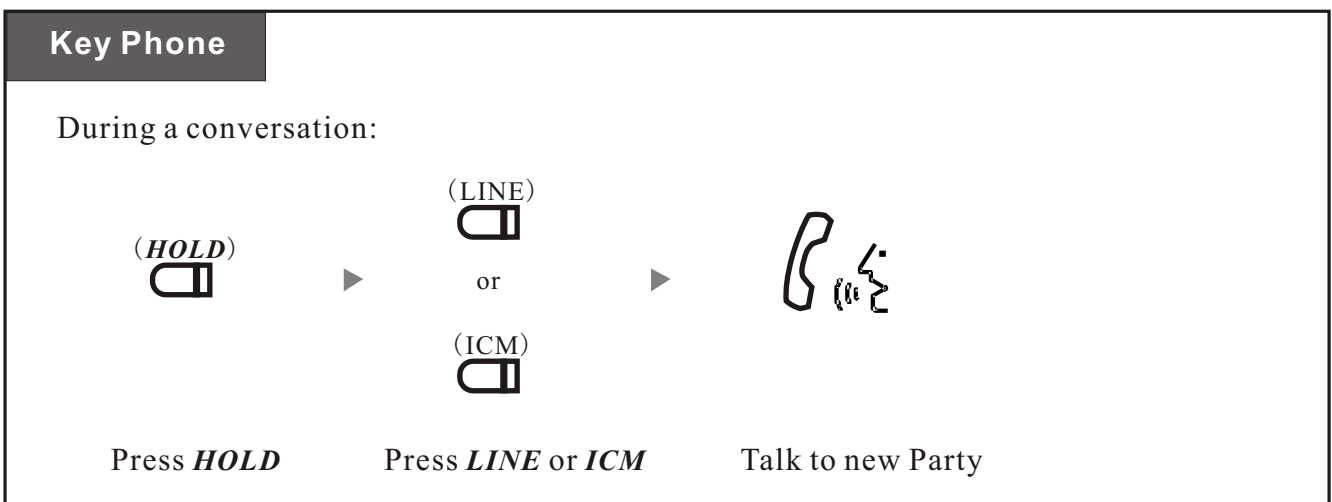
1.4   During a Conversation

Hold by regular phone and talk to new party:

Regular Phone

During a conversation:

Hook-flash   ▶   [#] [4]   ▶   Talk to new Party

    Hook-flash   Press #4   Talk to new Party
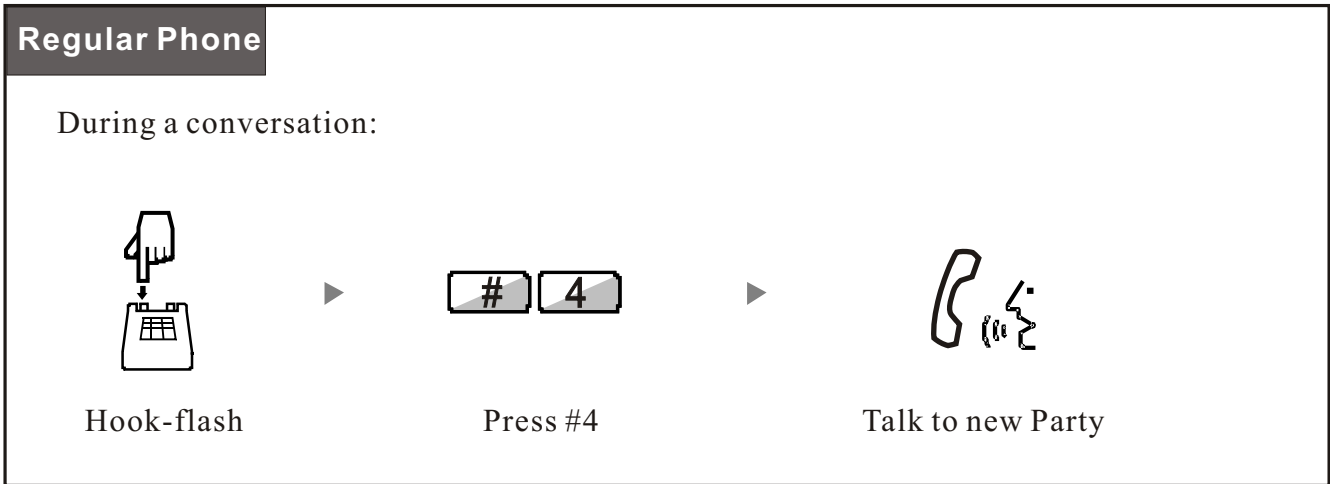
☞ You can use Call Retrieve function to take back the holding calls. By these ways, you can talk to different party alternately .

1.4.4   Call Splitting

You can talk to 2-party alternatively at same time.

Key Phone

During a conversation

（*HOLD*）   ▶   （*DSS*）   ▶   Talk to new Party   ▶   （*TRFR*）
                       or
               Other party

Press **HOLD**   Dial **DSS** button   Talk to new Party   Press **TRFR**
          or other party's number   talk to original party
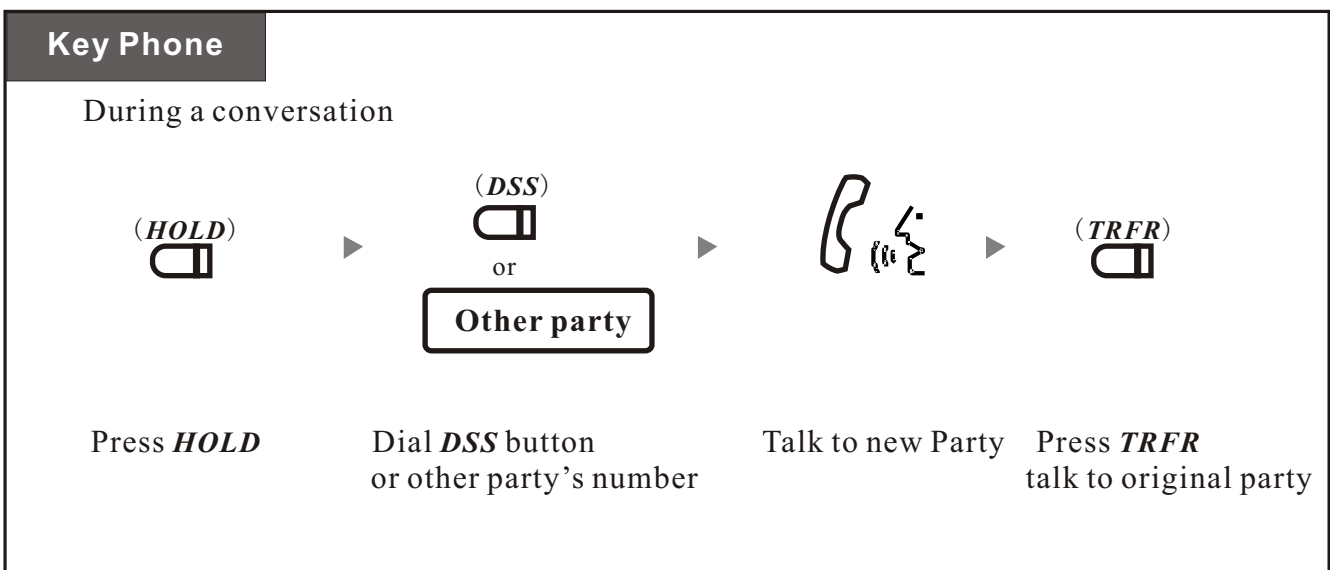
1.4 During a Conversation

1.4.5 Multi-party Conference Call

◆ To Call For a Conference

During a 2-party conversation, you can add a third party or more parties join together for a 3-party or 8-party conference call.

Key Phone

During a conversation:

（*CONF*）	▶	**Extension no.** or **Outside no.**	▶	📞	▶	（*CONF*）	▶	**Extension no.** or **Outside no.**
Press *CONF*		Call for extension or Outside party to join		Talk to new Party		Press *CONF*		Call for new extension or outside party again ...

Regular Phone

During a conversation:

✋📞	▶	# 4	▶	**Extension no.** or **Outside no.**	▶	✋📞	▶	# 5	▶	📞
Flash Hookswitch		Press #4		Press extension or Outside number		Flash Hookswitch		Press #5		3-party conference

1.4   During a Conversation

◆◆   *To leave a Conference*

All Telephone

On hook

☞   Max. 3-party conference for regular phone and max. 8 party for key phones(2lines + 6 extension party or all parties are 8 extension.).
The attender only need to simply hand up the handset to exit from conference.

1.4.6   Microphone Mute

During a conversation ,you can quiet your voice and your environmental voice ,so that the remote party can not hear what you are talking about.

Key Phone

During a conversation:

（*MUTE*）

Press *MUTE*

☞   To enable conversation ,simply press *MUTE* button again.
You can see the *MUTE* button become Red and return to normal.

1.5   When You Leave Desk

1.5.1   Call Forwarding to PBX Extension

You can forward the incoming call to some specified extension before you leave.

- Forwarding All Calls
- Call Forwarding On-busy
- Call Forwarding No-answer
- Call Forwarding Busy & no-answer
- Call Forwarding Cancel

Key Phone

Forward
All Calls:
▶ (ICM) 7 1 ▶ **Extension no.** ▶ 1 #
Press *ICM* + 71 + extension no. + 1#

Forward
on busy:
▶ (ICM) 7 1 ▶ **Extension no.** ▶ 2 #
Press *ICM* + 71 + extension no. + 2#

Forward
no answer:
▶ (ICM) 7 1 ▶ **Extension no.** ▶ 3 #
Press *ICM* + 71 + extension no. + 3#

Forward on busy
and no answer:
▶ (ICM) 7 1 ▶ **Extension no.** ▶ 4 #
Press *ICM* + 71 + extension no. + 4#

Cancel

To Cancel Call Forward at Key Telephone:

▶ (*ICM*) 7 0 #

On-hook   Press *ICM* + 70#

1.5   When You Leave Desk

You can forward the incoming call to some specified extension before you leave.

Regular Phone

Forward
All Calls: ▶   ☎   ▶   # 7 1   ▶   **Extension no.**   ▶   1 #

Off hook ,Press # 71 + extension no. + 1#

Forward
on busy: ▶   ☎   ▶   # 7 1   ▶   **Extension no.**   ▶   2 #

Off hook ,Press # 71 + extension no. + 2#

Forward
no answer: ▶   ☎   ▶   # 7 1   ▶   **Extension no.**   ▶   3 #

Off hook ,Press # 71 + extension no. + 3#

On busy
and no
answer: ▶   ☎   ▶   # 7 1   ▶   **Extension no.**   ▶   4 #

Off hook ,Press # 71 + extension no. + 4#

To cancel Call forwarding at a Regular Phone.

To Cancel

☎   ▶   # 7 0 #   ▶   ⌄

Off hook   Press #70#   On hook

1.5　When You Leave Desk

1.5.2　Day/Night Switch Manually

Operated by hand, you can switch system to Night Time or Day Time at the 001 port.

❖　*To set Night or Day Time*

Key Phone

（*ICM*）　▶　# 7 8 2 # / or / # 7 8 1 #　▶　On hook

Press *ICM*　　　Night Time: Press #782#
　　　　　　　　Day Time: Press #781#　　　On hook

Regular Phone

Off hook　▶　# 7 8 2 # / or / # 7 8 1 #　▶　On hook

Off hook　　　Night Time: Press #782#
　　　　　　　Day Time: Press #781#　　　On hook
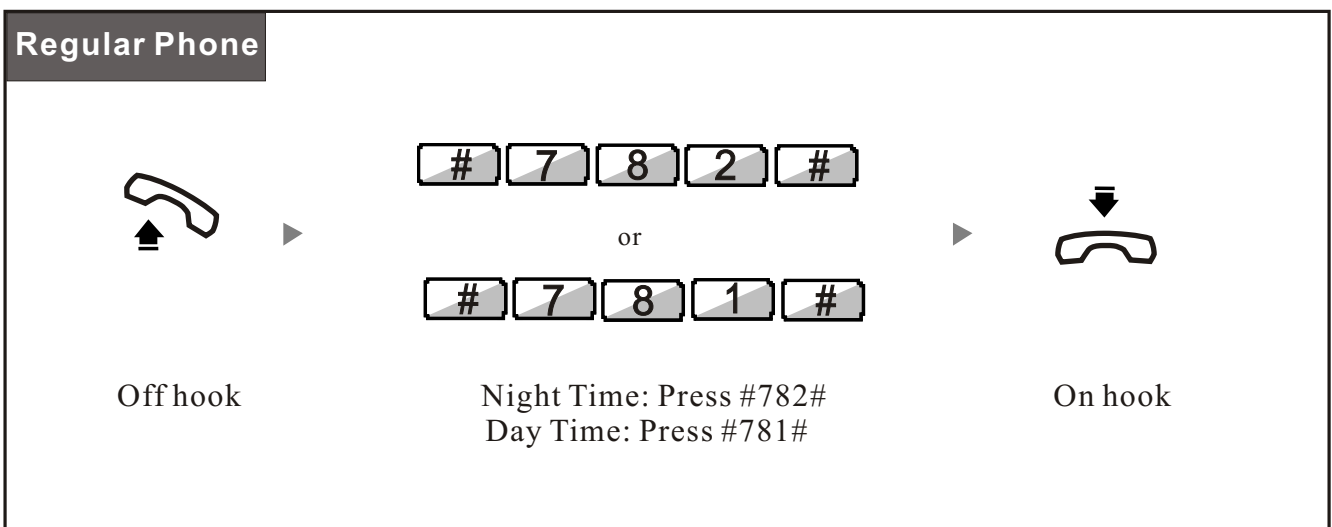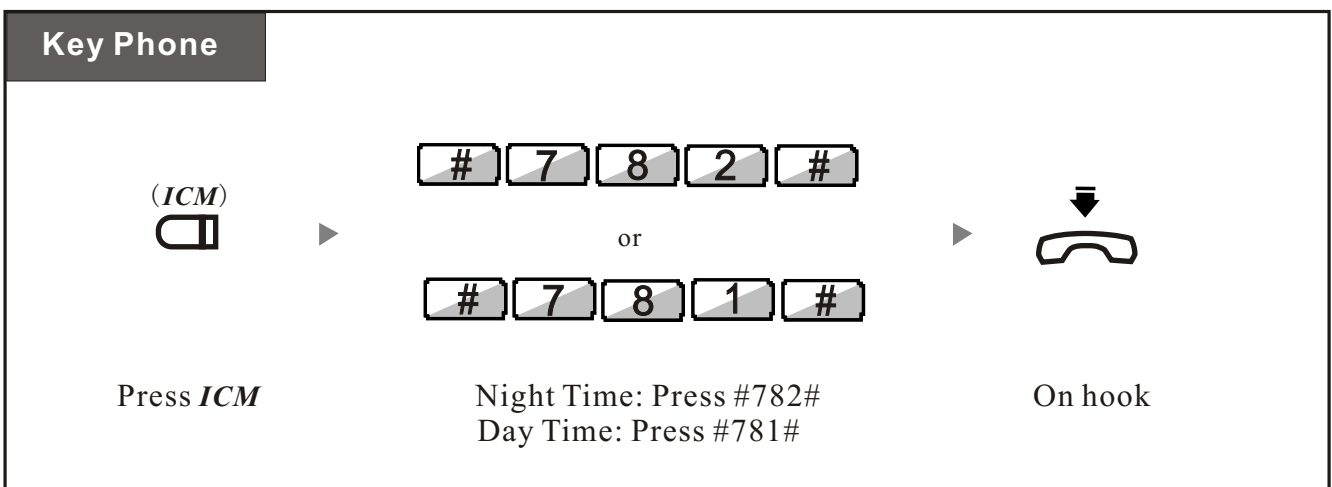
☞　This operate can only set at PBX extension port 001.
　　Key Telephone can set but can not be regarded as an alarm phone !

Section   2

Program

The chapter shows the steps how to program system by Key Telephone Set as well as the Regular Phones

2.1   Disconnect Idle Outside Line Port

When you have MC-416K at 4CO,16 extensions but office number only applied 3 numbers from Telecom Carrier. Suppose these 3numbers connect CO1,2,3 while CO 4 is empty and need to be closed .

Empty ,no connection

Outside CO   EXT 1~16

| 1 | 2 | 3 | 4 |

Key phone connect 01 port

Connected with external lines from local Telecom Provider

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 _du_	SYS PRO MODE INPUT CODE
③ Program access no.	0 1	LINE SETTING1 1- 22030
④ Outside Line	4	LINE SETTING1 4- 22030
	TRFR 0	LINE SETTING1 4- 02030
⑤ Save Program	HOLD _du_	SYS PRO MODE INPUT CODE
⑥ Exit	CLR	10/28 07:37AM 0 8001

LINE1~2 is factorily open (display -22030)
*Program by Regular phone: Extension Off-hook+ #787-1967590 -01-4 * 02030 # - on-hook*

2.2   Record Welcome Message

The incoming caller will hear the welcome message and dial to you directly,so that no need to assign someone staying at reception to pick up and transfer call by hand .

Outside CO Line	EXT 1~16
1 2 3 4	☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Keyphone connect only 01 port
for both MC-208K or MC-416K

Steps	**Press Button**	**Screen Display**

1
Keyphone off-hook   **ICM 7 8 5 1 #**   PLEASE DIAL / OGM RECORDING

2 Begin to record   Hello,this is xxx company / Please dial extension number, / 8002 for sales,8003 for purchase   PLEASE DIAL / OGM RECORDING

3 End record   **ICM** Press ICM or waiting 30seconds   PLEASE DIAL

Test record   **ICM 7 8 6 1 #**   PLEASE DIAL / OGM PLAYING
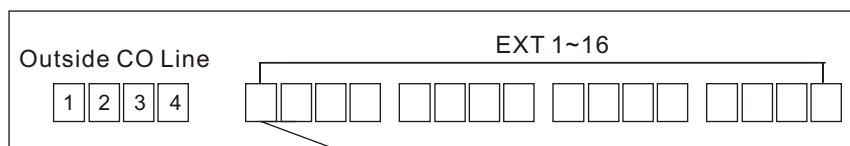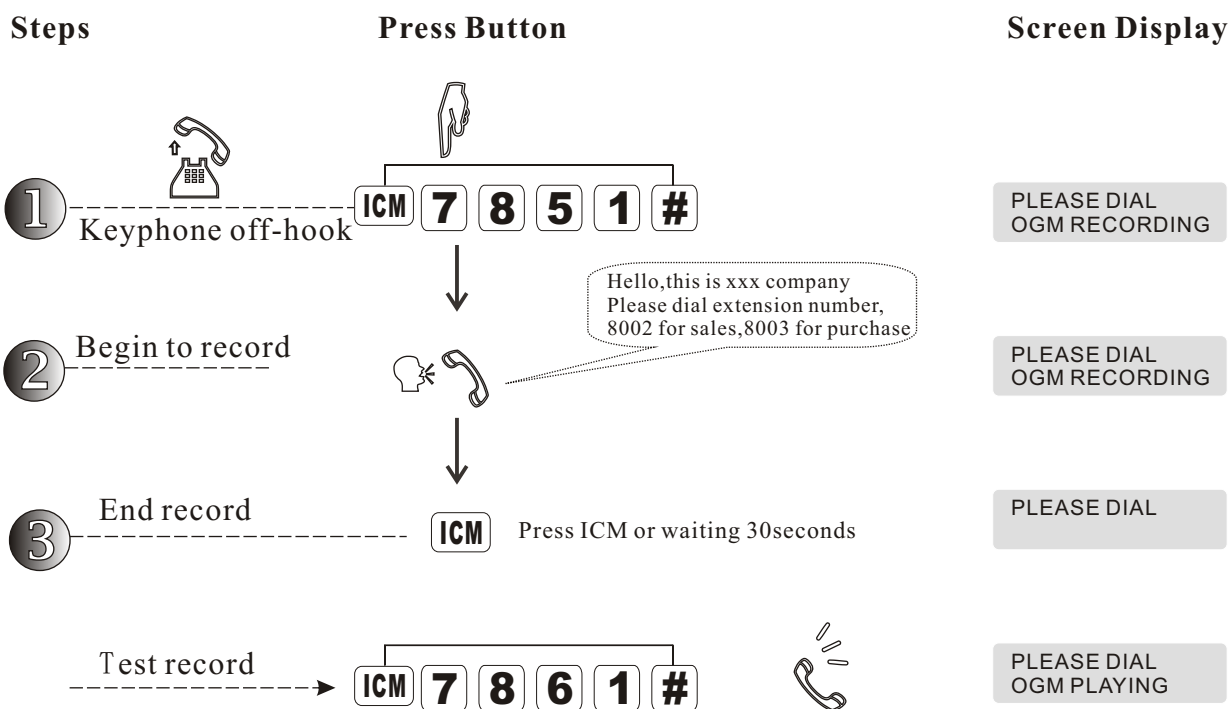
▶▶ The total duration to record this welcome message is 15seconds. You can record many time and cover the previous record automatically;

▶▶ Message Record can be like this : "Welcome to xx company, we are professional in PBX System, for sales please dial 8002, for financial please dial 8003, for purchase please dial 8006,for technical please dial 8008, for fax. Please dial 8009, for reception operator service please dial 0 "

Switch-on Auto-attendant Mode

PBX from the factory is in Operator Manual Transfer Call mode, you need to switch on the welcome message by System Program to change to Auto-attendant mode.
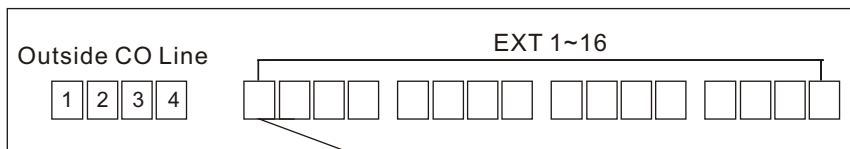
Outside CO Line	EXT 1~16
1 2 3 4	

Keyphone connect only 01 port
for both MC-208K or MC-416K

Steps	**Press Button**	**Screen Display**
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	0 1	LINE SETTING1 1- 22030
④ All outside Line	✱	LINE SETTING1 ✱- 22030
	TRFR 2 2 1 3 0	LINE SETTING1 - 22130
⑤ Save Program	HOLD du	SYS PRO MODE INPUT CODE
⑥ Exit	CLR	10/28 07:37AM 0 8001

▷▷▷   ✱ can be changed to 1~4 ,means which Outside Line enable welcome message.

Record when-Busy Message

The incoming caller can not reach to the desired extension, because the desired extension is busy or occupied.
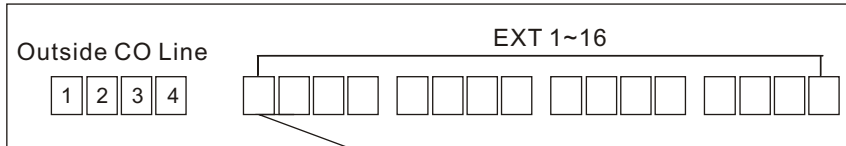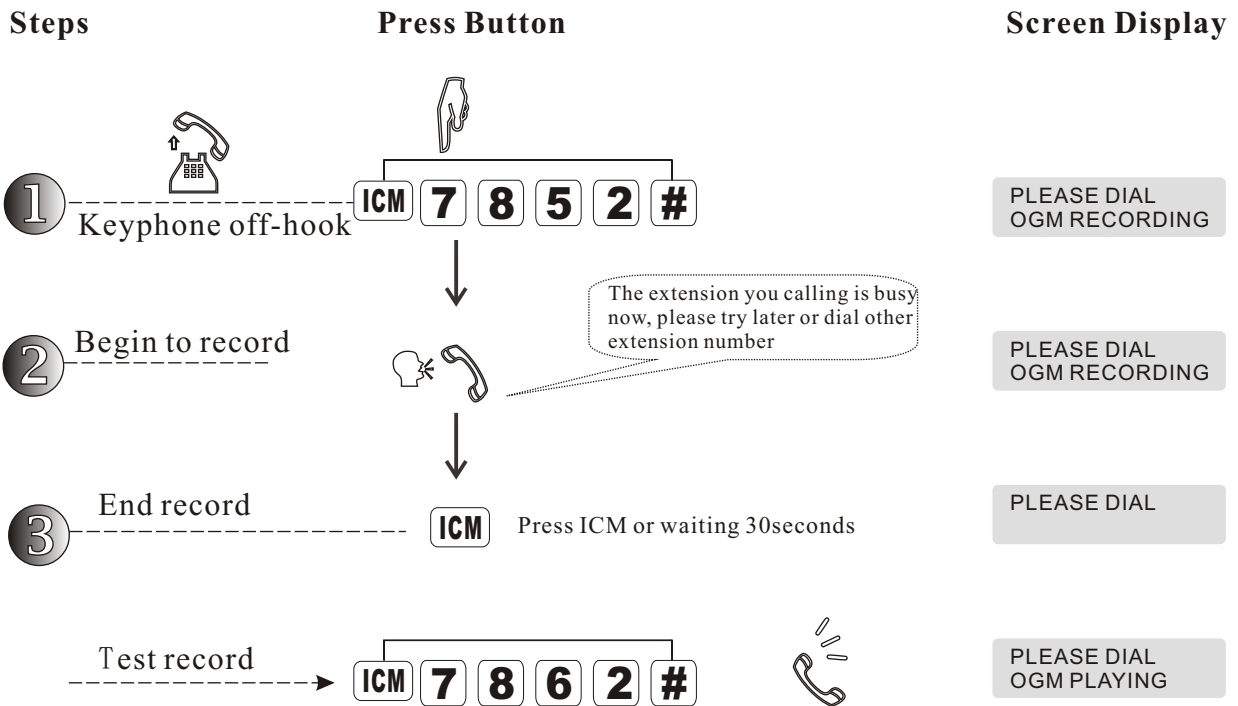
Outside CO Line	EXT 1~16
1 2 3 4	▢▢▢▢ ▢▢▢▢ ▢▢▢▢ ▢▢▢▢

Keyphone connect only 01 port
for both MC-208K or MC-416K

Steps	Press Button	Screen Display

① Keyphone off-hook

ICM 7 8 5 2 #

PLEASE DIAL
OGM RECORDING

② Begin to record

The extension you calling is busy now, please try later or dial other extension number

PLEASE DIAL
OGM RECORDING

③ End record

ICM Press ICM or waiting 30seconds

PLEASE DIAL

Test record

ICM 7 8 6 2 #

PLEASE DIAL
OGM PLAYING

▶▶| The total duration to record this message is 15 seconds. You can record many time any language and cover the previous record automatically;

▶▶| Suggest to choose a good quality phone set and record in quiet place.

Record no-Answer Message

The incoming caller can not reach to the desired extension, because no one pickup the ringing extension to answer it. When will hear the no-answer message to remind.
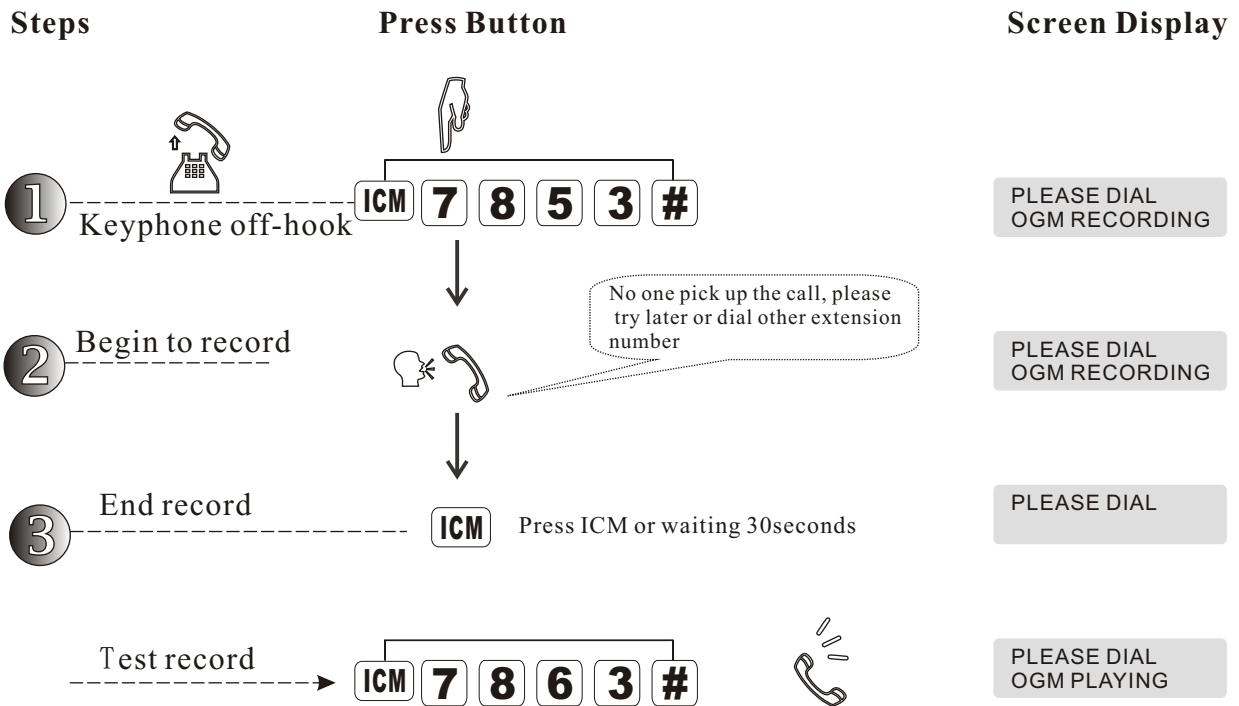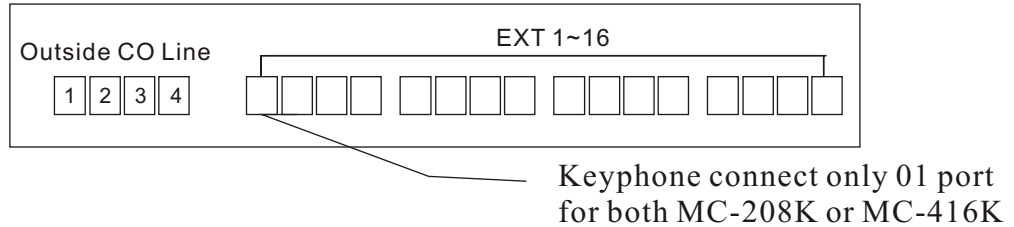
Outside CO Line	EXT 1~16		
1 2 3 4			

Keyphone connect only 01 port
for both MC-208K or MC-416K

Steps	Press Button	Screen Display
① Keyphone off-hook	ICM 7 8 5 3 #	PLEASE DIAL OGM RECORDING
② Begin to record	No one pick up the call, please try later or dial other extension number	PLEASE DIAL OGM RECORDING
③ End record	ICM Press ICM or waiting 30seconds	PLEASE DIAL
Test record	ICM 7 8 6 3 #	PLEASE DIAL OGM PLAYING

▶▶ The total duration to record this message is 15 seconds. You can record many time any language and cover the previous record automatically;

▶▶ Suggest to choose a good quality phone set and record in quiet place.

2.3 Outside Line Selection - Day Time

Some outside lines can be assigned exclusively for some specific extensions to use only, other extension can not select these lines. (Day Time)

Outside CO Line	EXT 1~16
1 2 3 4	□□□ □□□□ □□□□ □□□□

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;
Example: How to set line 2 as the exclusive line of extension 8002 (port 002)

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	0 9	DAY LN OUT SET 001- 11111111
④ All Lines	✱ ✱ ✱ TRFR 1 0 1 1 1 1 1 1 （All EXT can not select LINE2）	LINE SETTING1 ✱✱✱ - 10111111
	TRFR	DAY LN OUT SET 001- 10111111
⑤	0 0 2 TRFR 0 1 0 0 0 0 0 0 （EXT002 can select LINE2）	DAY LN OUT SET 002-01000000
⑥ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001

2.3   Outside Line Selection - Day Time
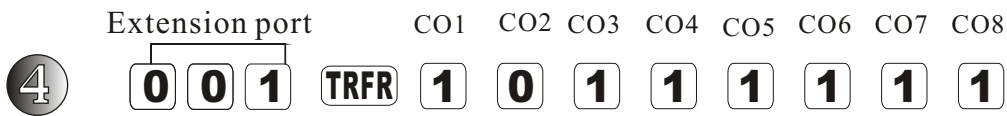
Explain : more details in step 4 and step 5

④   Extension port   CO1   CO2   CO3   CO4   CO5   CO6   CO7   CO8

0 0 1 **TRFR** **1 0 1 1 1 1 1 1**

001: Extension port,You can select 001,002~016 , or select "***" mean all extensions;
TRFR: The button to jump mouse cursor
CO1~4: Outside Line, change to 0 means extension 001 can not use this line;
          change to 1 means extension 001 can use this line;CO5-8 invalid;

1: Means available for extension 001 to use Outside line 1;
0: Means unavailable for extension 001 to use Outside line 2;
1: Means available for extension 001 to use Outside line 3;
1: Means available for extension 001 to use Outside line 4;
1: invalid in model MC-208K or MC-416K;
1: invalid in model MC-208K or MC-416K;
1: invalid in model MC-208K or MC-416K;
1: invalid in model MC-208K or MC-416K;

⑤   Extension port   CO1   CO2   CO3   CO4   CO5   CO6   CO7   CO8

0 0 2 **TRFR** **0 1 0 0 0 0 0 0**

001: Extension port,You can select 001,002~016 , or select "***" mean all extensions;
TRFR: The button to jump mouse cursor
CO1~4: Outside Line, change to 0 means extension 001 can not use this line;
          change to 1 means extension 001 can use this line;CO5-8 invalid;

0: Means unavailable for extension 001 to use Outside line 1;
1: Means available for extension 001 to use Outside line 2;
0: Means unavailable for extension 001 to use Outside line 3;
0: Means unavailable for extension 001 to use Outside line 4;
0: invalid in model MC-208K or MC-416K;
0: invalid in model MC-208K or MC-416K;
0: invalid in model MC-208K or MC-416K;
0: invalid in model MC-208K or MC-416K;

2.4 Outside Line Selection - Night Time

Some outside lines can be assigned exclusively for some specific extensions to use only, other extension can not select these lines.

```
Outside CO Line                     EXT 1~16
  1  2  3  4       □□□□ □□□□ □□□□ □□□□
```

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;
Example: How to set line 2 as the exclusive line of extension 8002 (port 002)

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	1 0	DAY LN OUT SET 001- 11111111
④ All Lines	✳ ✳ ✳ TRFR 1 0 1 1 1 1 1 1 （All EXT can not select LINE2）	LINE SETTING1 ✳✳✳ - 10111111
	TRFR	DAY LN OUT SET 001- 10111111
⑤	0 0 2 TRFR 0 1 0 0 0 0 0 0 （EXT002 can select LINE2）	DAY LN OUT SET 002-01000000
⑥ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001

2.4 Outside Line Selection - Night Time

Explain : more details in step 4 and step 5

| | Extension port | | CO1 | CO2 | CO3 | CO4 | CO5 | CO6 | CO7 | CO8 |

④ 0 0 1 TRFR 1 0 1 1 1 1 1 1

001: Extension port,You can select 001,002~016 , or select "***" mean all extensions;
TRFR: The button to jump mouse cursor
CO1~4: Outside Line, change to 0 means extension 001 can not use this line;
            change to 1 means extension 001 can use this line;CO5-8 invalid;

1: Means available for extension 001 to use Outside line 1;

0: Means unavailable for extension 001 to use Outside line 2;

1: Means available for extension 001 to use Outside line 3;

1: Means available for extension 001 to use Outside line 4;

1: invalid for model MC-208K or MC-416K;

1: invalid for model MC-208K or MC-416K;

1: invalid for model MC-208K or MC-416K;

1: invalid for model MC-208K or MC-416K;

| | Extension port | | CO1 | CO2 | CO3 | CO4 | CO5 | CO6 | CO7 | CO8 |

⑤ 0 0 2 TRFR 0 1 0 0 0 0 0 0

001: Extension port,You can select 001,002~016 , or select "***" mean all extensions;
TRFR: The button to jump mouse cursor
CO1~4: Outside Line, change to 0 means extension 001 can not use this line;
            change to 1 means extension 001 can use this line;CO5-8 invalid;

0: Means unavailable for extension 001 to use Outside line 1;

1: Means available for extension 001 to use Outside line 2;

0: Means unavailable for extension 001 to use Outside line 3;

0: Means unavailable for extension 001 to use Outside line 4;

0: invalid in model MC-208K or MC-416K;

0: invalid in model MC-208K or MC-416K;

0: invalid in model MC-208K or MC-416K;

0: invalid in model MC-208K or MC-416K;

2.5　Ringing Extension Selection - Day Time

Some outside lines can be assigned exclusively for some specific extensions to use only, other extension can not select these lines .

```
┌─────────────────────────────────────────────────┐
│                              EXT 1~16             │
│ Outside CO Line   ┌──────────────────────────────┐│
│ ┌─┬─┬─┬─┐         □□□□ □□□□ □□□□ □□□□             ││
│ │1│2│3│4│                                         ││
│ └─┴─┴─┴─┘                                         ││
└─────────────────────────────────────────────────┘
```

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;
Example: In Day Time ,how to set outside line no. 4 ringing to extension 002?

Steps	Press Button	Screen Display

① Keyphone On-hook　　CHK CHK CHK　(3 times)　　INPUT SYS CODE

② Password　　1 9 6 7 5 9 0　　*du*　　SYS PRO MODE / INPUT CODE

③ Program access no.　　1 1　　DAY LN IN SET / 001- 11111111

④ 0 0 1 TRFR 1 1 1 0 1 1 1 1　　LINE SETTING1 / 001 - 11101111
（Line 4 not ring to 001）

TRFR　　DAY LN IN SET / 001- 11101111

⑤ 0 0 2 TRFR 0 0 0 1 0 0 0 0　　DAY LN IN SET / 002-00010000
（Line 4 ring to 002）

⑥ Save & Exit　　*du*　　HOLD CLR　　10/28 07:37AM 0 / 8001

2.5 Ringing Extension Selection - Day Time
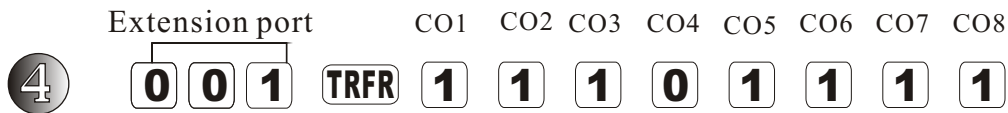
Explain : more details in step 4 and step 5

④ Extension port   CO1   CO2   CO3   CO4   CO5   CO6   CO7   CO8

0 0 1   **TRFR**   **1**   **1**   **1**   **0**   **1**   **1**   **1**   **1**

001: Extension port,You can select 001,002~016 , or select "***" mean all extensions;
TRFR: The button to jump mouse cursor
CO1~4: Outside Line, change to 0 means extension 001 can not use this line;
         change to 1 means extension 001 can use this line; CO5-8 invalid;

1: Means Outside CO Line 1 will ring to extension 001;
1: Means Outside CO Line 2 will ring to extension 001;
1: Means Outside CO Line 3 will ring to extension 001;
0: Means Outside CO Line 4 will ring to extension 001;
1: invalid in model MC-208K or MC-416K;
1: invalid in model MC-208K or MC-416K;
1: invalid in model MC-208K or MC-416K;
1: invalid in model MC-208K or MC-416K;

⑤ Extension port   CO1   CO2   CO3   CO4   CO5   CO6   CO7   CO8

0 0 2   **TRFR**   **0**   **0**   **0**   **1**   **0**   **0**   **0**   **0**

002: Extension port,You can select 001,002~016 , or select "***" mean all extensions;
TRFR: The button to jump mouse cursor
CO14: Outside Line, change to 0 means extension 001 can not use this line;
         change to 1 means extension 001 can use this line; CO5-8 invalid;

0: Means Outside CO Line 1 will Not ring to extension 002;
0: Means Outside CO Line 2 will Not ring to extension 002;
0: Means Outside CO Line 3 will Not ring to extension 002;
1: Means Outside CO Line 4 will can ring to extension 002;
0: invalid in model MC-208K or MC-416K;
0: invalid in model MC-208K or MC-416K;
0: invalid in model MC-208K or MC-416K;
0: invalid in model MC-208K or MC-416K;

2.6 Ringing Extension Selection -Night Time

Some outside lines can be assigned exclusively for some specific extensions to use only, other extension can not select these lines (Night Time).
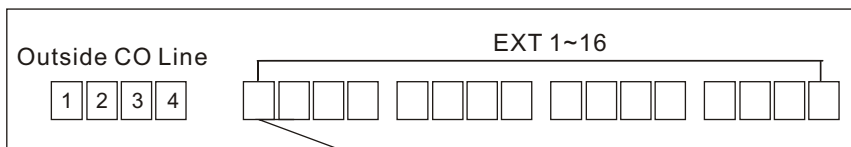
Outside CO Line	EXT 1~16
1 2 3 4	☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;
Example: In Night Time ,how to set outside line no. 4 ringing to extension 002?
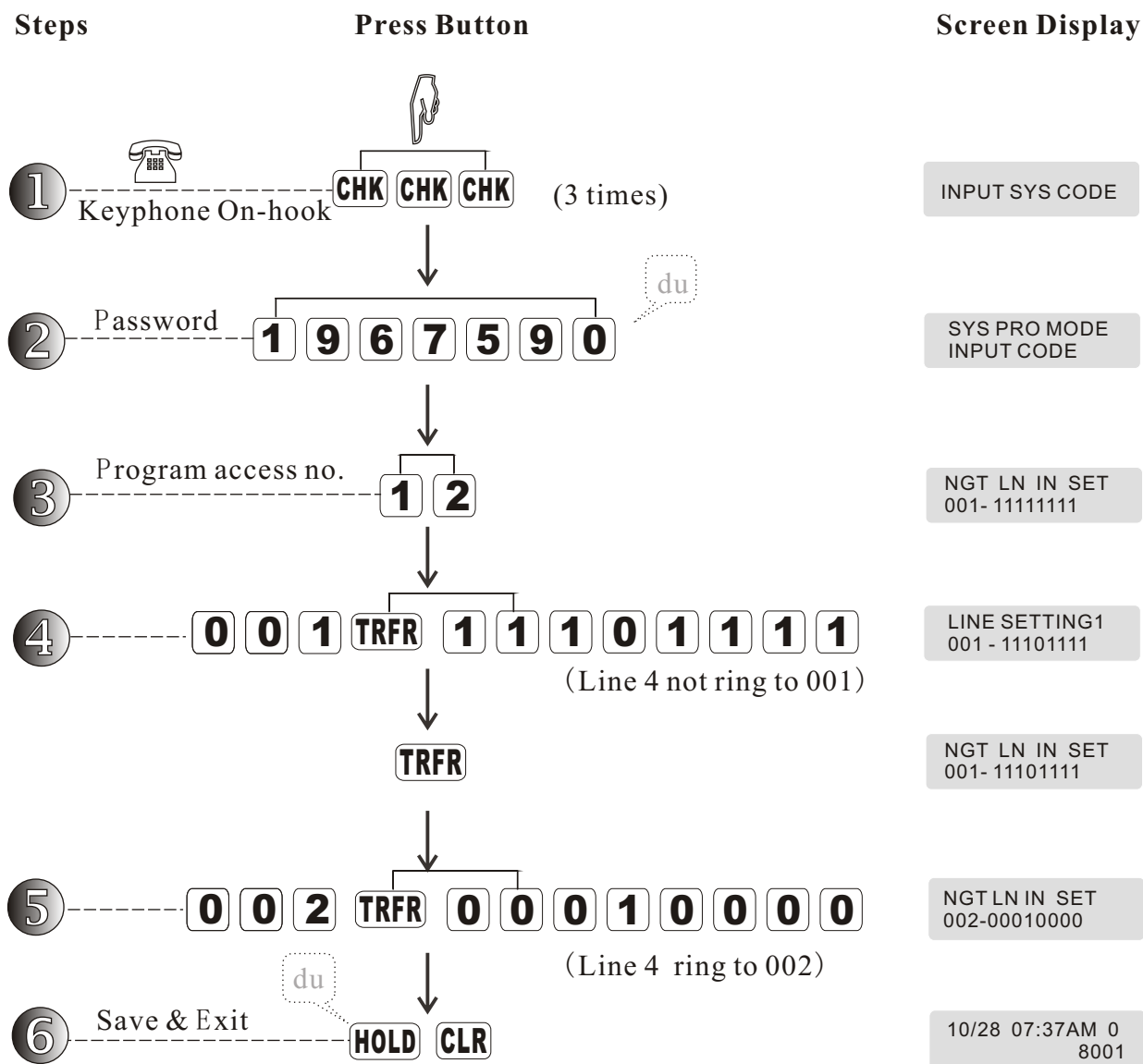
Steps	Press Button	Screen Display
① Keyphone On-hook	☎ CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 *du*	SYS PRO MODE INPUT CODE
③ Program access no.	1 2	NGT LN IN SET 001- 11111111
④	0 0 1 TRFR 1 1 1 0 1 1 1 1 （Line 4 not ring to 001）	LINE SETTING1 001 - 11101111
	TRFR	NGT LN IN SET 001- 11101111
⑤	0 0 2 TRFR 0 0 0 1 0 0 0 0 （Line 4 ring to 002）	NGT LN IN SET 002-00010000
⑥ Save & Exit	*du* HOLD CLR	10/28 07:37AM 0 8001

2.6 Ringing Extension Selection -Night Time

Explain : more details in step 4 and step 5

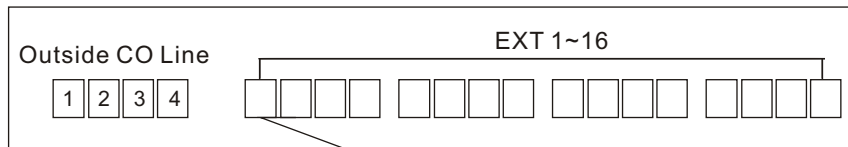|	Extension port				CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8
④	0	0	1	TRFR	1	1	1	0	1	1	1	1
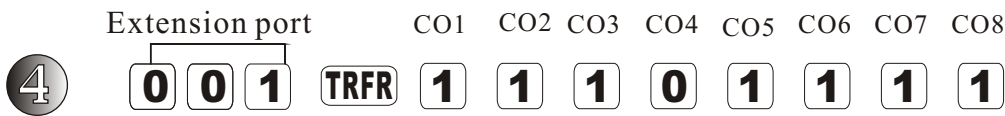
001: Extension port,You can select 001,002~016 , or select "***" mean all extensions;
TRFR: The button to jump mouse cursor
CO1~4: Outside Line, change to 0 means extension 001 can not use this line;
                 change to 1 means extension 001 can use this line;CO5-8 is invalid;

1: Means Outside CO Line 1 will ring to extension 001;
1: Means Outside CO Line 2 will ring to extension 001;
1: Means Outside CO Line 3 will ring to extension 001;
0: Means Outside CO Line 4 will ring to extension 001;
1: invalid for model MC-208K or MC-416K;
1: invalid for model MC-208K or MC-416K;
1: invalid for model MC-208K or MC-416K;
1: invalid for model MC-208K or MC-416K;

	Extension port				CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8
⑤	0	0	2	TRFR	0	0	0	1	0	0	0	0
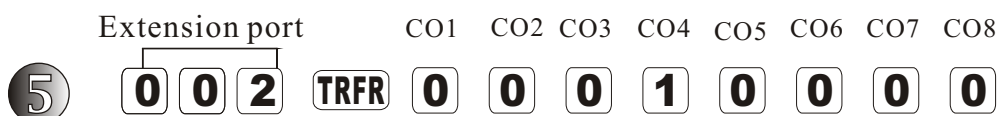
002: Extension port,You can select 001,002~016, or select "***" mean all extensions;
TRFR: The button to jump mouse cursor
CO1~4: Outside Line, change to 0 means means CO Line do not ring to extension 002;
                 change to 1 means CO Line will ring to extension 002;CO5-8 invalid;

0: Means Outside CO Line 1 will Not ring to extension 002;
0: Means Outside CO Line 2 will Not ring to extension 002;
0: Means Outside CO Line 3 will Not ring to extension 002;
1: Means Outside CO Line 4 will Not ring to extension 002;
0: invalid for model MC-208K or MC-416K;
0: invalid for model MC-208K or MC-416K;
0: invalid for model MC-208K or MC-416K;
0: invalid for model MC-208K or MC-416K;

2.7 Modify Extension Number

You can change current extension numbers 8001~8064 to others like 18,209,8801etc.
Only allow prefixed numbers starting with "1" "2" "8",and max. 2~4 digit-number.

Outside CO Line | EXT 1~16
1 2 3 4

Keyphone connect only 01 port
for both MC-208K or MC-416K

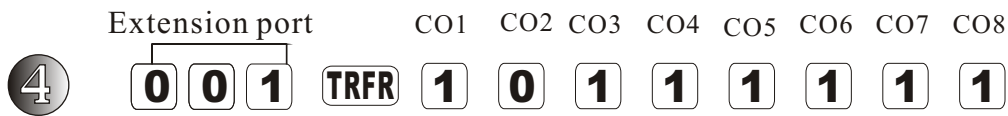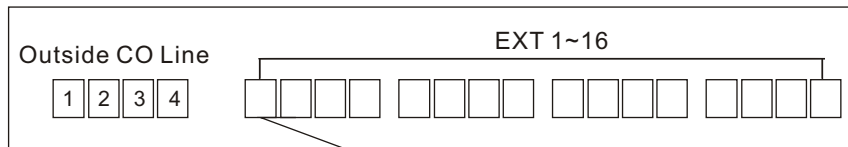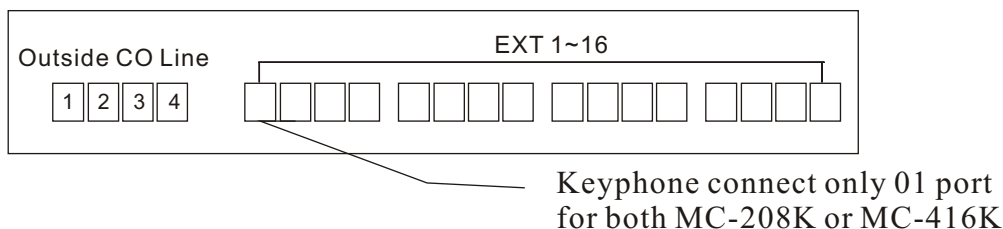**PBX Ready**: connect key phone set at extension port 01 only;
Example: I want to modify 8001 to 11, 8002 to 202, 8003 to 8893,how to program?

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	2 9	PORT EXT NUMBER 001- 8001
④	✳ ✳ 1 TRFR 1 1 TRFR 0 0 2	PORT EXT NUMBER 002 -
⑤	TRFR 2 0 2 TRFR 0 0 3 TRFR	PORT EXT NUMBER 003 -
	8 8 9 3	PORT EXT NUMBER 003 - 8893
⑥ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001
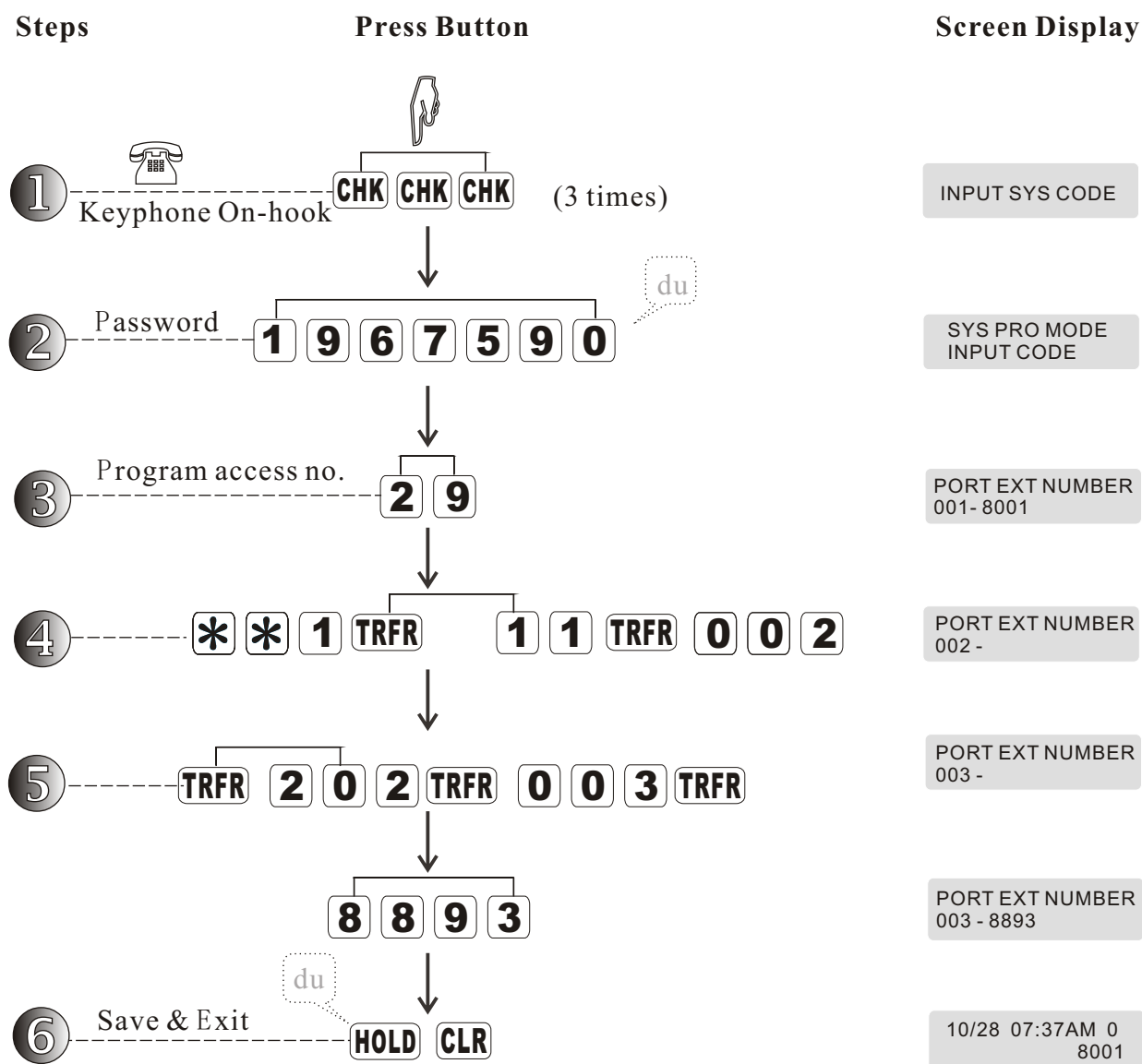
2.8 Off-Hook Route Selection

Customer pick up handset and hear external line dial tone, can dial external numbers directly without dial Route code "9". (Factory is off-hook intercom route)
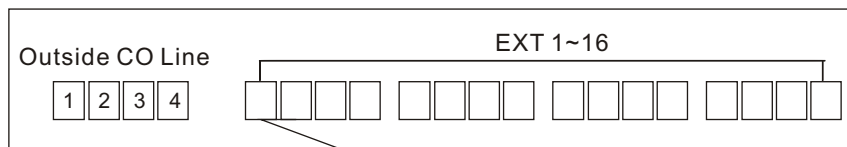
Outside CO Line	EXT 1~16
1 2 3 4	

Keyphone connect only 01 port for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;
Example: I want to set extension 001 & 002 in direct dial out mode(no need to dial "9").

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	2 3	D 001- 02000
④	0 0 1 TRFR 0 2 0 1 0	PORT EXT NUMBER 001 -02010
⑤	TRFR 0 0 2 TRFR 0 2 0 1 0	PORT EXT NUMBER 002 -02010
⑥ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001

2.9   Toll Restriction

You can control the class of authority to make long-distance call .

Outside CO Line
| 1 | 2 | 3 | 4 |

EXT 1~16

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	1 4	SERVICE CLASS 001- 11
④	0 0 1 TRFR 1 1	SERVICE CLASS 001 -11
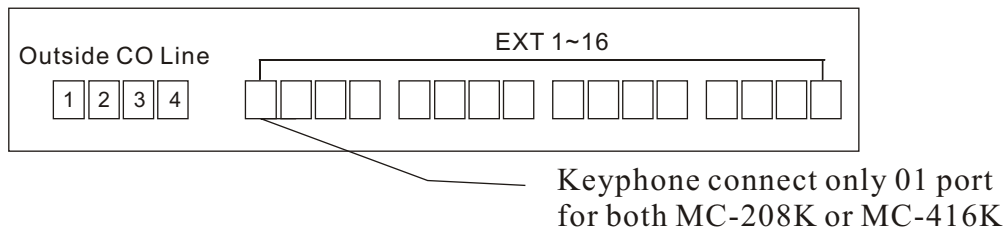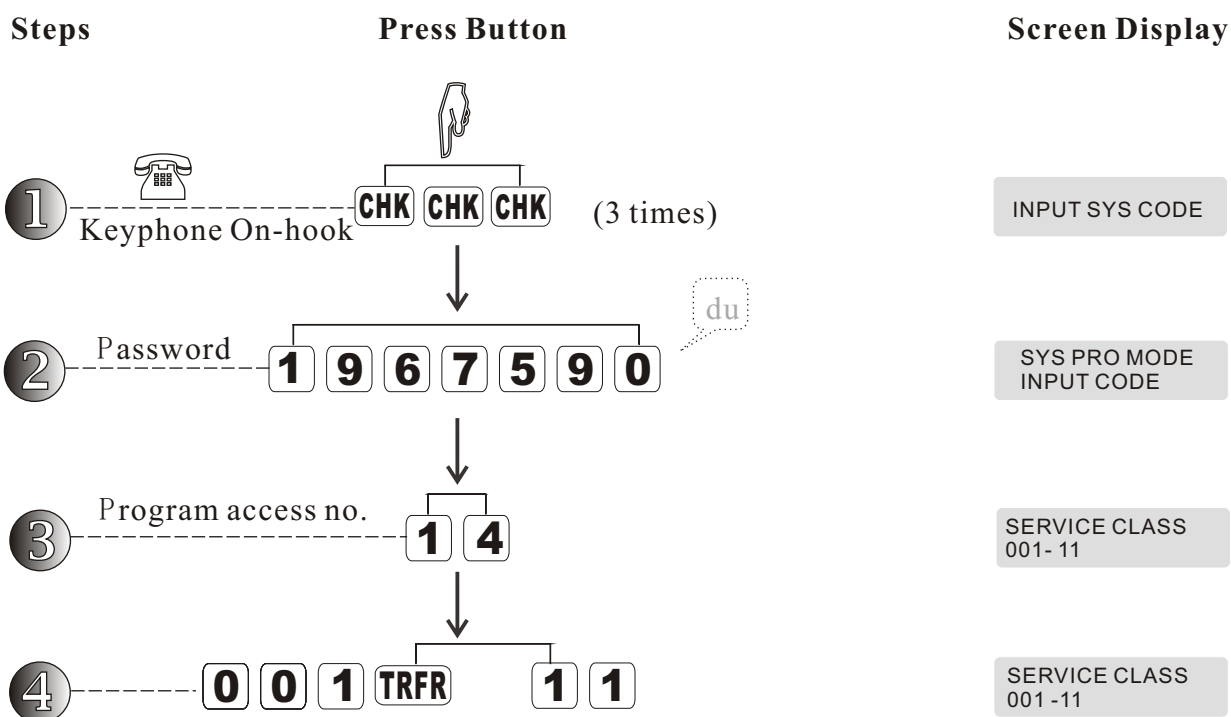
001: can input 001~064 ,means which extension number for restriction;

1: can input 1~6 ,means 1~6 Toll class in Day Time;

1: can input 1~6 ,means 1~6 Toll class in Night Time;

2.9   Toll Restriction

List of Toll Restriction Class:

1- Class 1 : No restriction, can dial any number ,even international;

2- Class 2: Restrict the codes which stated in Restrict Code A (refer to next page);

3- Class 3: Restrict the codes which stated in Restrict Code B (refer to next page),but
enable the numbers programmed in Unrest Code C (refer to next page).

4- Class 4: Restrict the codes which stated in Restrict Code A & B (refer to next page) , do not
enable the numbers in Unrest Code C (refer to next page);

5- Class 5: Can only dial the numbers in Comunres Code D (refer to next page);

6- Class 6: Only allow intercom calls;

HOW TO SET RESTRICT CODE A:

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 _du_	SYS PRO MODE INPUT CODE
③ Program access no.	1 5	RESTRICT CODE A 01- 00
④	0 1 TRFR 0 0	RESTRICT CODE A 01- 00
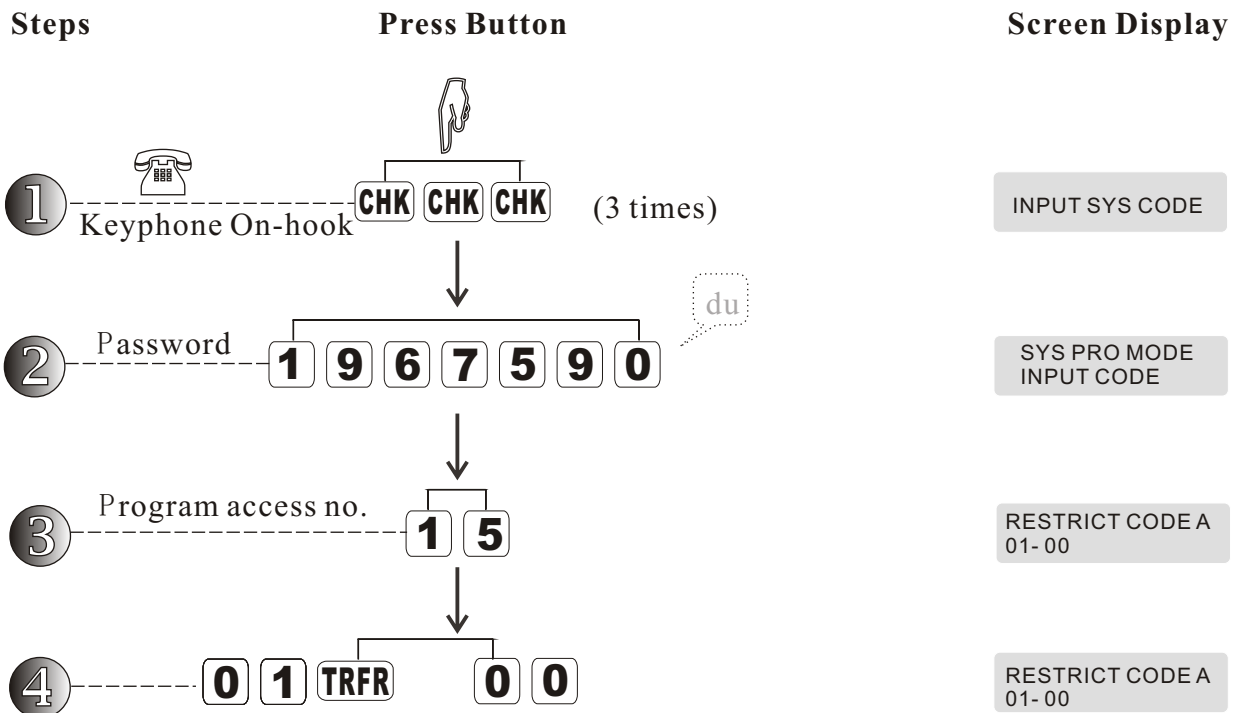
01: Group, can input 01~04 ,means you can set 1-4 group different numbers in
Restrict Code A;

00: The numbers to be restricted in Restrict Code A, max. 8-digit;
Factory setting : 01-00; 02-168; 03-968; 04-969.

2.9   *Toll Restriction*

HOW TO SET RESTRICT CODE B:

Steps	Press Button	Screen Display

1 Keyphone On-hook → CHK CHK CHK (3 times) — INPUT SYS CODE

2 Password → 1 9 6 7 5 9 0 *du* — SYS PRO MODE INPUT CODE

3 Program access no. → 1 6 — RESTRICT CODE B 01- 0

4 → 0 1 TRFR 0 — RESTRICT CODE B 01- 0
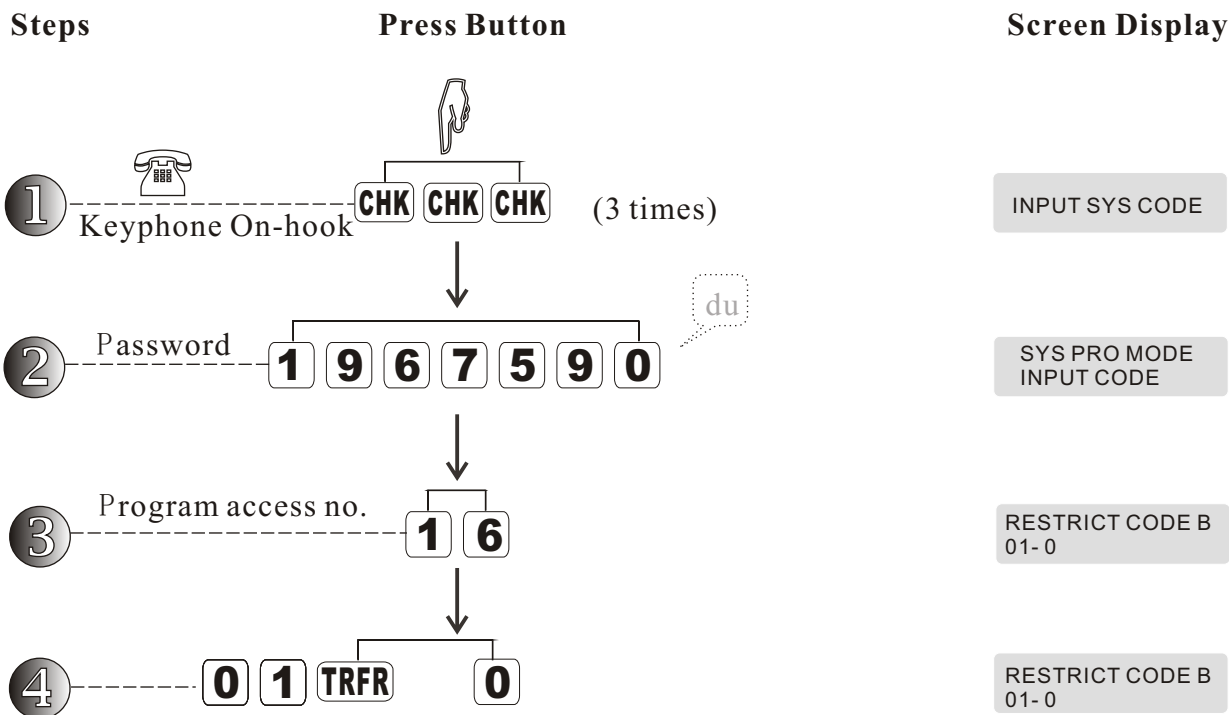
01 : Group, can input 01~20 ,means you can set 1-20 group different numbers in Restrict Code B;

0 : The numbers to be restricted in Restrict Code B, max. 8-digit; Factory setting : 01-0; 02-168; 03-968; 04-969.

2.9 Toll Restriction

HOW TO SET UNREST CODE C:

Steps	Press Button	Screen Display

Steps   **Press Button**   **Screen Display**

① Keyphone On-hook   **CHK CHK CHK** (3 times)   INPUT SYS CODE

② Password   **1 9 6 7 5 9 0**   du   SYS PRO MODE INPUT CODE

③ Program access no.   **1 7**   UNREST CODE C 01-

④   **0 1 TRFR**   **A B C D E F G H**   UNREST CODE C 01-
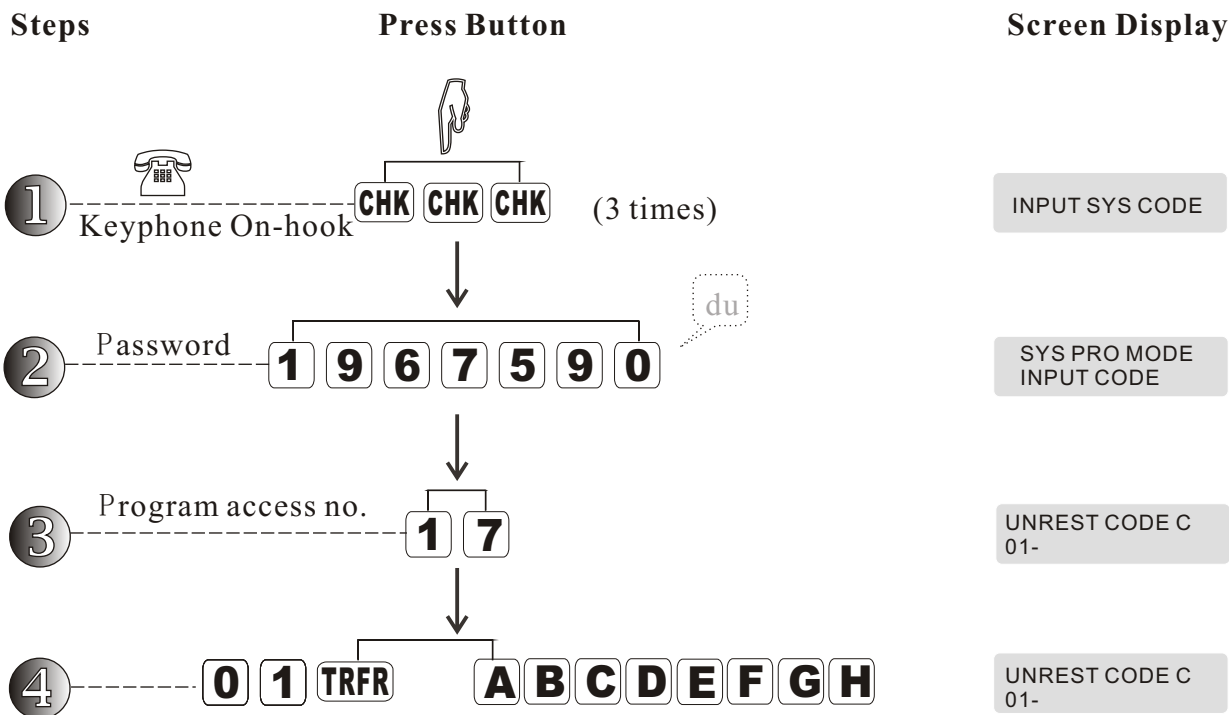
01: Group, can input 01~12 ,means you can set 1-12 group different numbers in Unrest Code C;

ABCEDFGH: The numbers to be restricted in Unrest Code C, max. 8-digit; Factory setting : no setting;

2.9   Toll Restriction

COMUNRES CODE D SETTING (Emergency Code):

Steps	Press Button	Screen Display

1 — Keyphone On-hook — CHK CHK CHK (3 times) — INPUT SYS CODE

2 — Password — 1 9 6 7 5 9 0 (du) — SYS PRO MODE INPUT CODE

3 — Program access no. — 1 8 — COMUNRES CODE D 01-110

4 — 0 1 TRFR   A B C D E F G H — COMUNRES CODE D 01-110
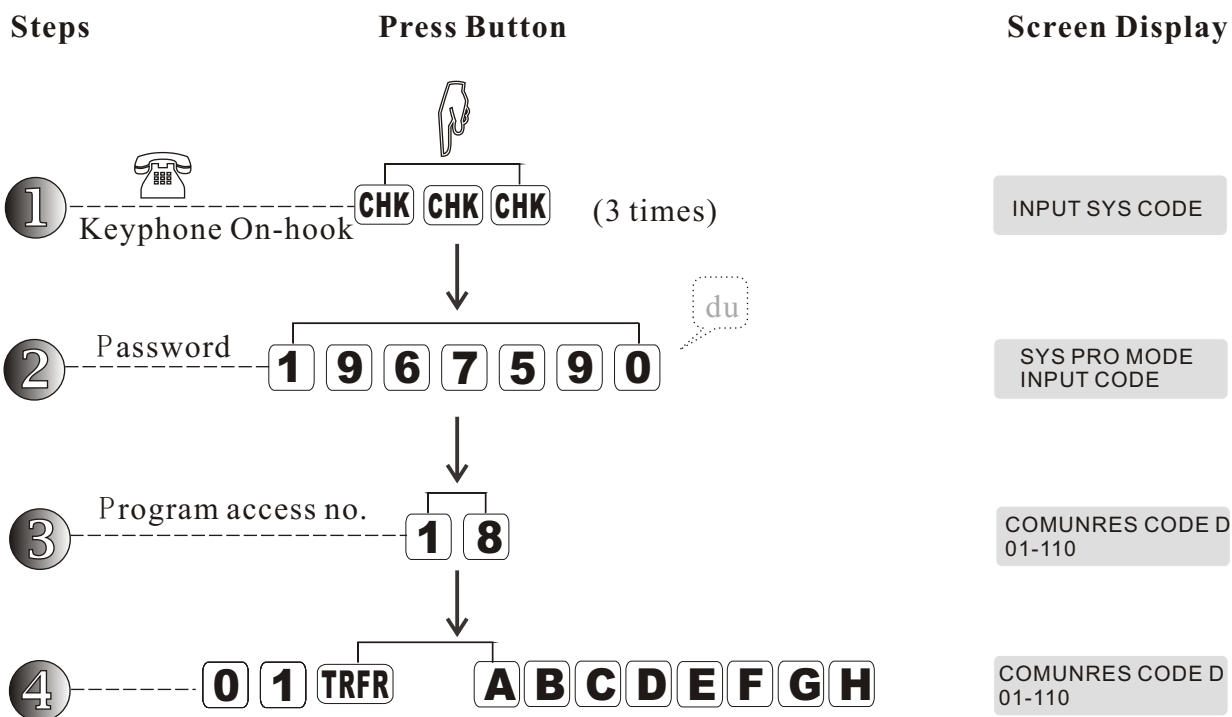
01: Group, can input 01~04 ,means you can set 1-4 group different numbers in Comunres Code D;

ABCEDFGH: The numbers to be restricted in Code D, max. 8-digit;
Factory setting : 01-110; 02-112; 03-119, This is to set emergency numbers;

2.10   Do-Not-dial Switch to Operator

The incoming Caller hear the welcome message in Auto-attendant mode, but do not dial any number, the line will be cut off in factory setting, how to set Do Not Dial then switch to Operator phone automatically?
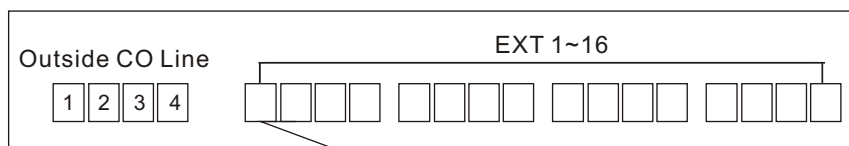
Outside CO Line	EXT 1~16
1 2 3 4	□□□ □□□□ □□□□ □□□□

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	0 5	SYSTEM SETTING2 -01100
④	TRFR 1 1 1 0 0	SYSTEM SETTING2 -11100
⑤ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001
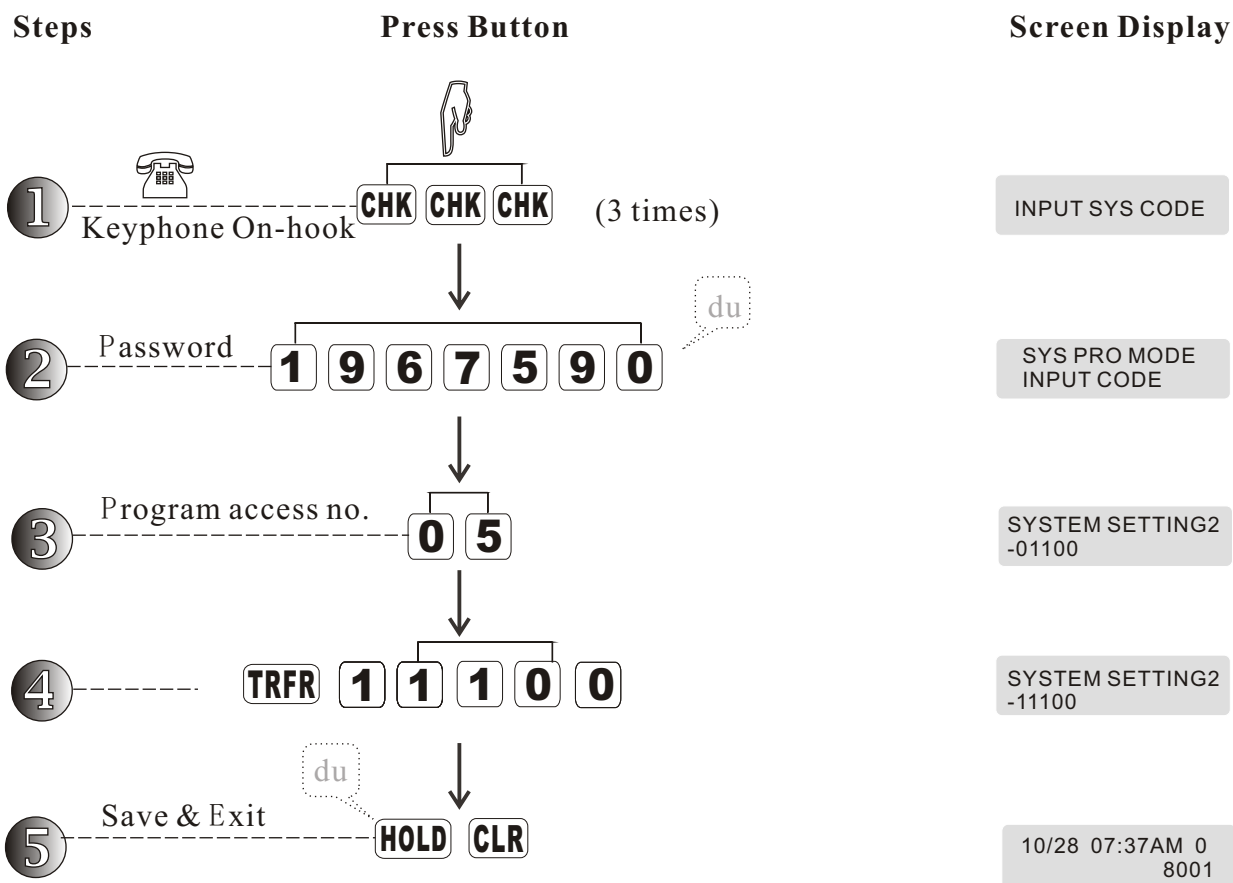
2.11　Walking Account PIN Setting

Your staffs in company can use assigned password account to make long-distance call in other extensions, while the cost count on password account only, no related with the extensions.

Outside CO Line	EXT 1~16
1 2 3 4	□□□□ □□□□ □□□□ □□□□

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
①	Keyphone On-hook — CHK CHK CHK (3 times)	INPUT SYS CODE
②	Password — 1 9 6 7 5 9 0 *du*	SYS PRO MODE INPUT CODE
③	Program access no. — 2 0	OVER CLASS CODE 001-　　　-1
④	TRFR A B C D E F TRFR G	OVER CLASS CODE 001- ABCDEF -G
⑤	Save & Exit — *du* HOLD CLR	10/28 07:37AM 0 8001

001- The series number, you can press 001~032,means you can set max. 32 passwords;

ABCDEF: 6-digit different password account;

G: Toll restriction class, can be from Class 1~ Class 6;

2.12   3-minute Conversation Alarm

System will send alarm tone to extension after talking 3minutes, then in additional 1.5 minutes later, the line will be cut off.
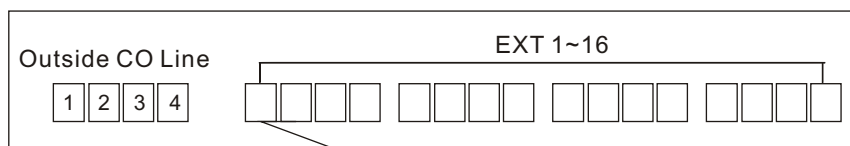
```
Outside CO Line                    EXT 1~16
  ┌─┬─┬─┬─┐   ┌──────────────────────────────┐
  │1│2│3│4│   │□□□□ □□□□ □□□□ □□□□│
  └─┴─┴─┴─┘   └──────────────────────────────┘
```

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	2 2	EXT SETTING1 001-31000
④	0 0 1 TRFR 3 1 1 0 0	EXT SETTING1 001-31100
⑤ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001
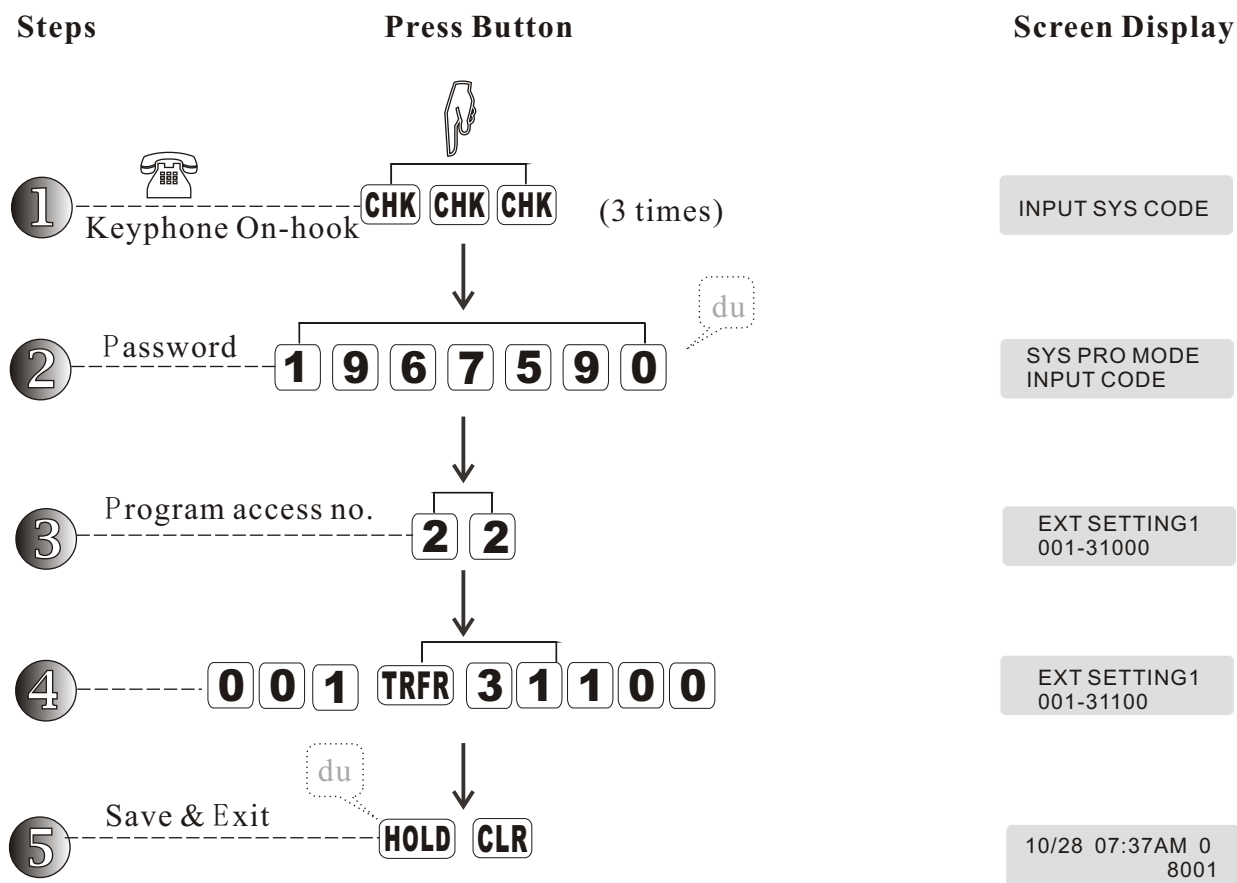
001- The selectable extension number, you can press 001~016 to set which extension;

31100: input 31100 means the selected extension will hear alarm tone;

31000: input 31000 means the selected extension will Not hear alarm tone,factory set;

2.13 Conversation Override & Cut-off

To enable which extension can override an existing conversation and cut off it.

Outside CO Line
| 1 | 2 | 3 | 4 |

EXT 1~16

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	2 2	EXT SETTING1 001-31000
④	0 0 1 TRFR 3 1 0 1 0	EXT SETTING1 001-31010
⑤ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001
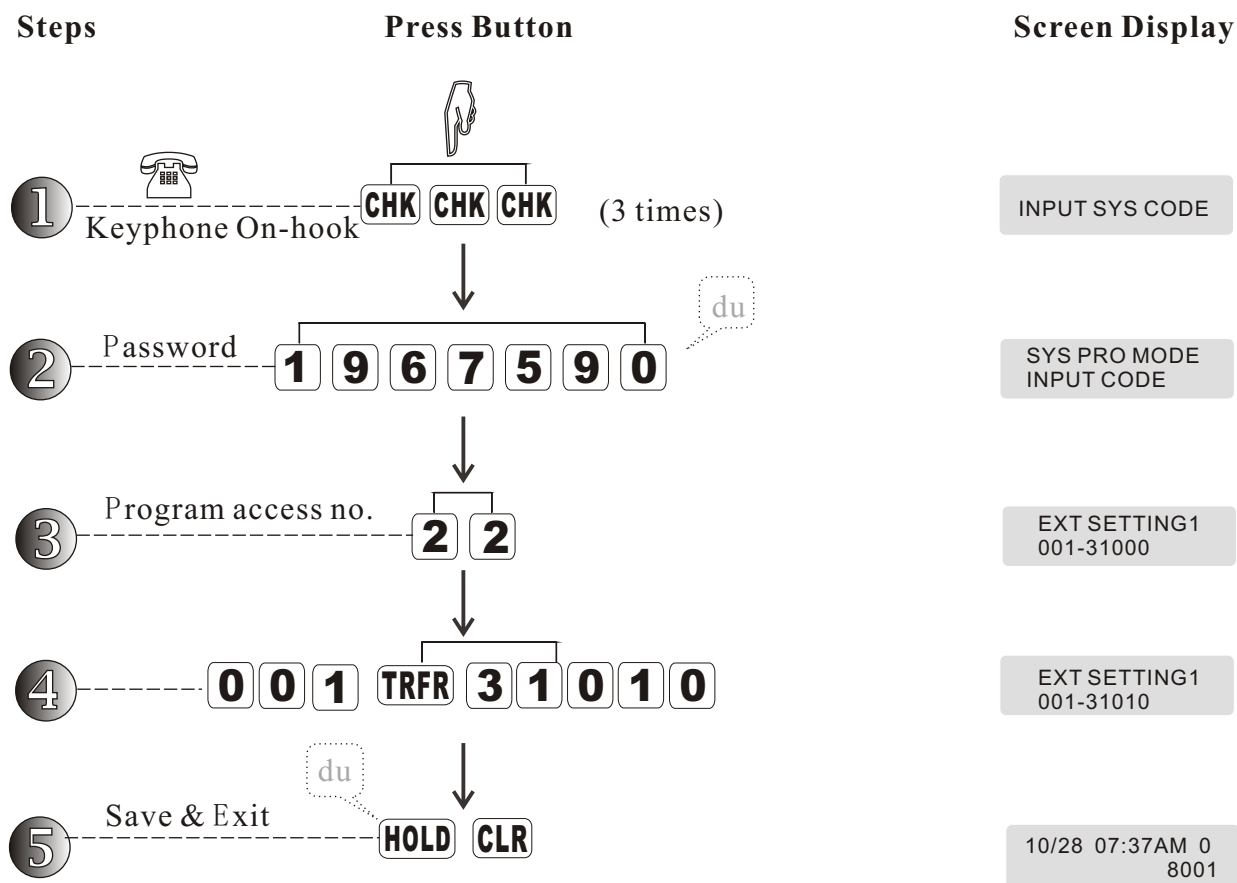
001 - The selectable extension number, you can press 001~064 to set which extension;

31010: 31100 means the selected extension can override and cut off the conversation;

31000: input 31000 means the selected extension can not override or cut-off;

Code to override an cut off conversation: refer to Operation part 1.4 ;

2.14 Call Pickup Group

To separate all extensions to different groups (max. 4 group). Can only pick up the ringing extensions within same group.
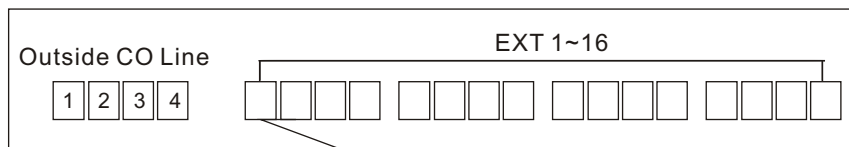
PBX Ready: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 (du)	SYS PRO MODE INPUT CODE
③ Program access no.	2 4	PICKUP GROUP 1 -001 -1
④	1 TRFR 0 0 1 TRFR 1	PICKUP GROUP X -ABC -Y
⑤ Save & Exit	(du) HOLD CLR	10/28 07:37AM 0 8001
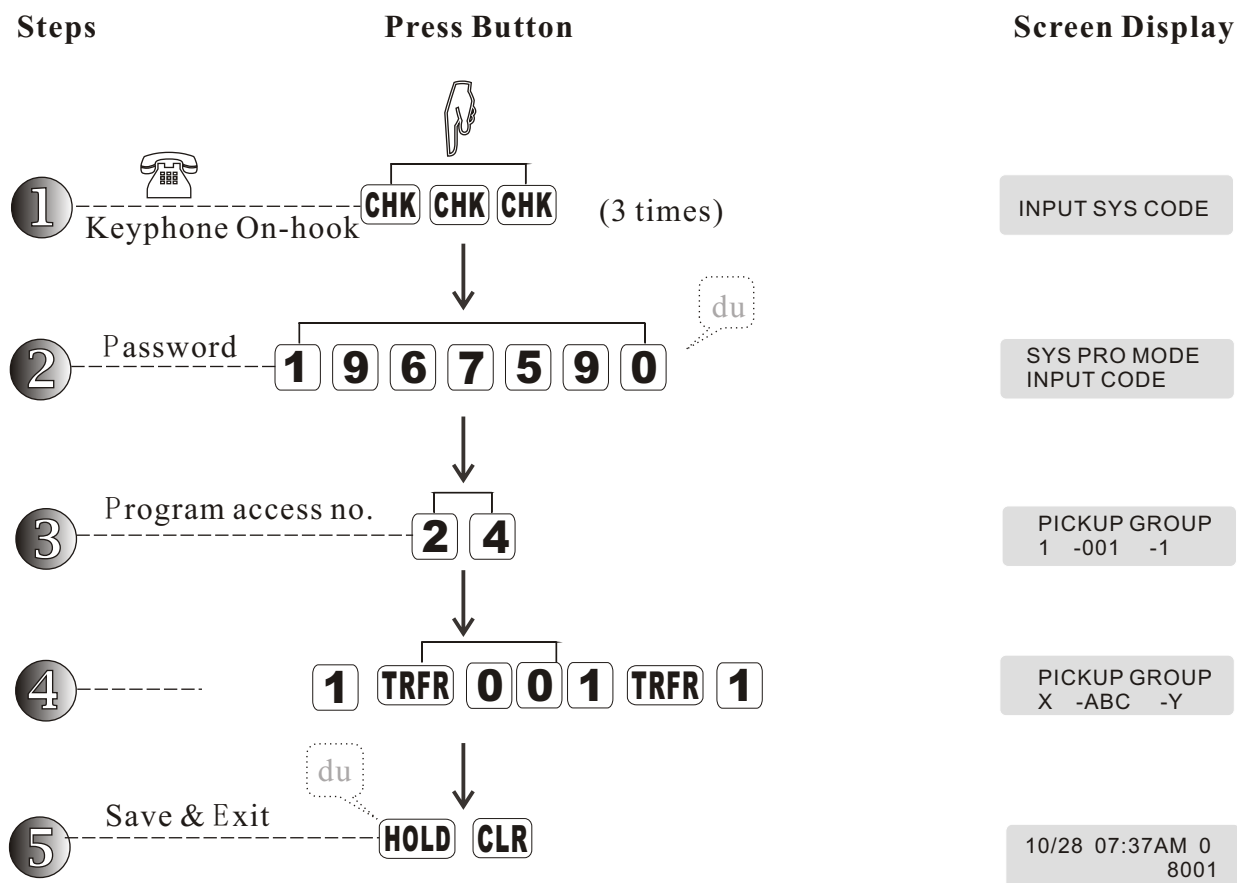
1 - The selectable pickup group, you can press 01-02 , max. 2 groups;

001: The selectable extensions001~016 within or outside the group;

1: can be "1" means within group or "0" means out of the group;
Extension can only pick up the call in same group only;

2.15　Manger-secretary Call Group

All incoming call to Manager will firstly ring to secretary extension. After consulting, secretary can decide whether to transfer the call to Manager or not.

```
Outside CO Line          EXT 1~16
 ┌─┬─┬─┬─┐   ┌──┬──┬──┬──┐ ┌──┬──┬──┬──┐ ┌──┬──┬──┬──┐ ┌──┬──┬──┬──┐
 │1│2│3│4│   │  │  │  │  │ │  │  │  │  │ │  │  │  │  │ │  │  │  │  │
 └─┴─┴─┴─┘   └──┴──┴──┴──┘ └──┴──┴──┴──┘ └──┴──┴──┴──┘ └──┴──┴──┴──┘
```
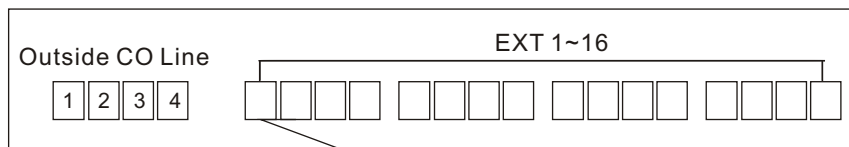
Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0　du	SYS PRO MODE INPUT CODE
③ Program access no.	2 5	EXEC/SEC PAIR 1 - -
④	1 TRFR 0 0 1 TRFR 0 0 2	EXEC/SEC PAIR X -ABC -abc
⑤ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001

1- Manager/secretary Call group, you can press 01-04 ,max. 4 groups call;

001: The selectable extensions001~016 for Manager;

002:　The selectable extensions001~016 for Secretary;

After setting, Manager extension should press DND key;

2.16   Modify System Program Password

All incoming call to Manager will firstly ring to secretary extension. After consulting, secretary can decide whether to transfer the call to Manager or not.


```
Outside CO Line                          EXT 1~16
  1  2  3  4    □□□□  □□□□  □□□□  □□□□
```

Keyphone connect only 01 port
for both MC-208K or MC-416K

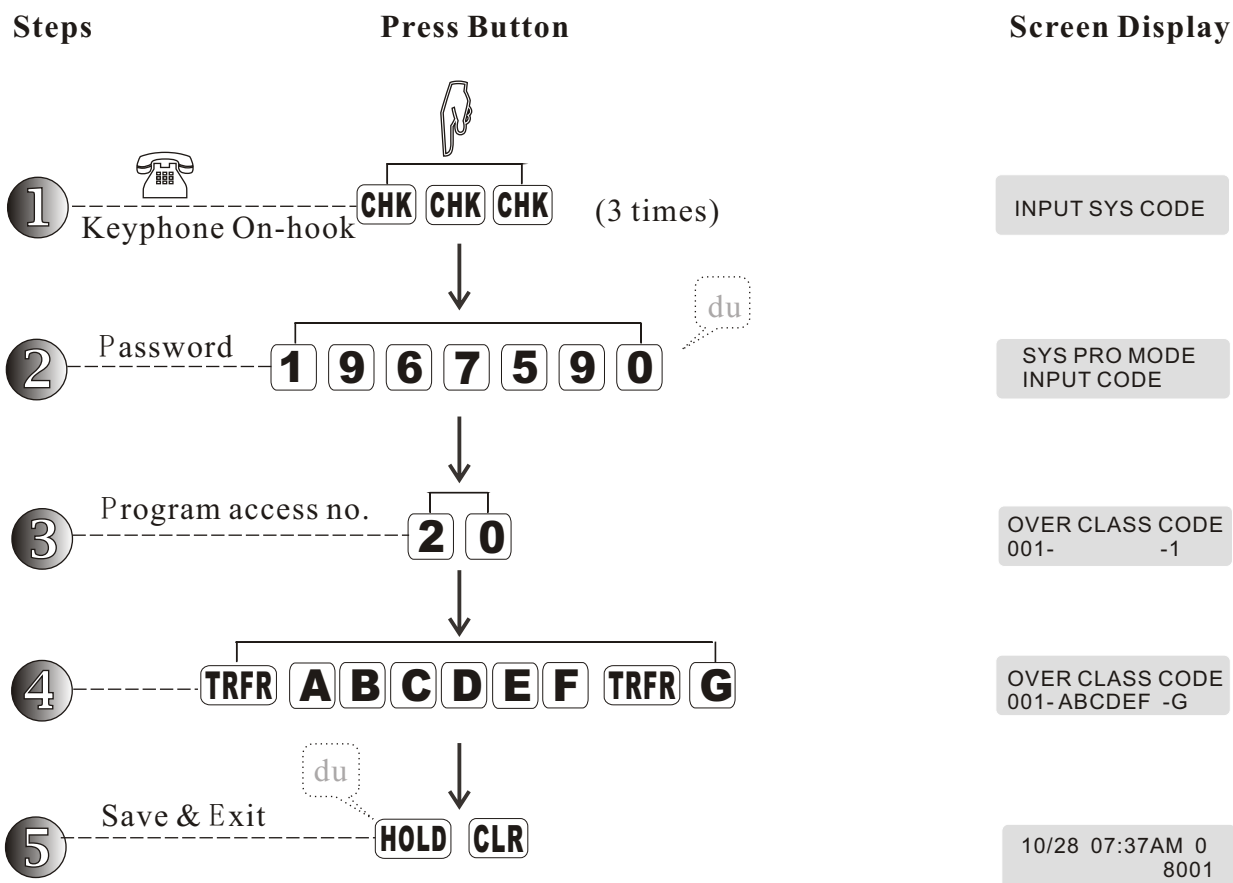**PBX Ready**: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	2 6	SYS SECRET CODE -1967590-
④	1 9 6 7 5 9 0	SYS SECRET CODE -abcdef-
⑤ Save & Exit	du HOLD CLR	10/28 07:37AM 0 8001
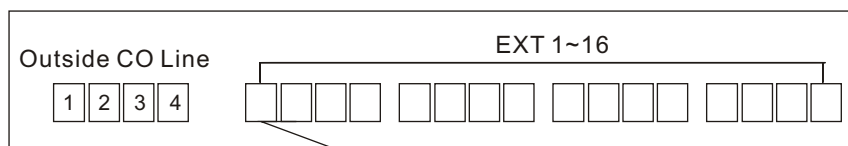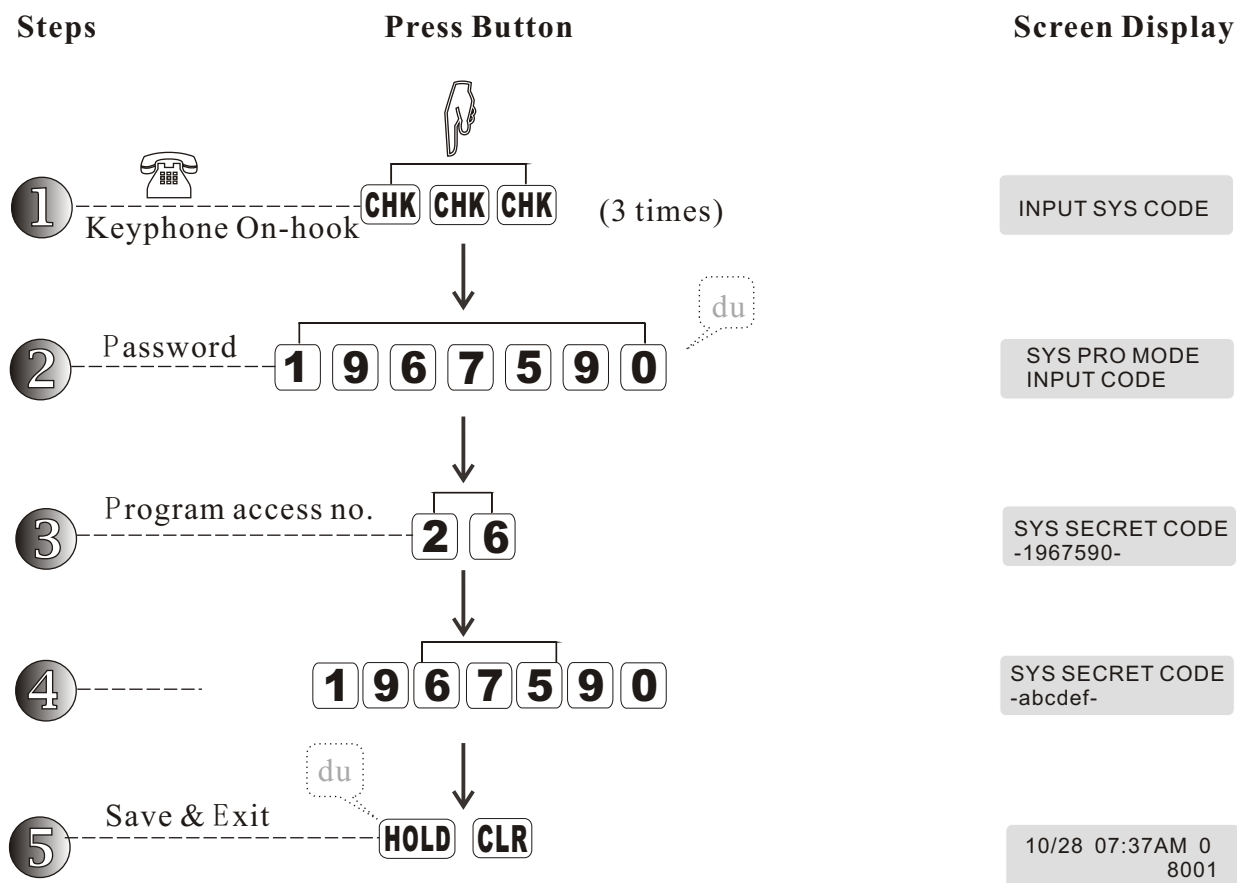
1967590 - you can input any 7-digit numbers here as new password;

Please keep new password secretly; If lose password,you can use "2167715" to enter into system and clear previous password.

2.17 Set more Operators

You can set more operators for incoming calls in case it is busy .
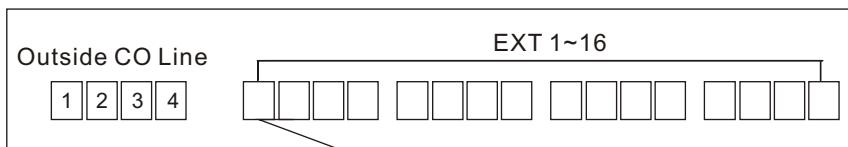

```
Outside CO Line          EXT 1~16
 ┌─┬─┬─┬─┐   ┌──┬──┬──┬──┬──┬──┬──┐
 │1│2│3│4│   │  │  │  │  │  │  │  │
 └─┴─┴─┴─┘   └──┴──┴──┴──┴──┴──┴──┘
```

Keyphone connect only 01 port
for both MC-208K or MC-416K

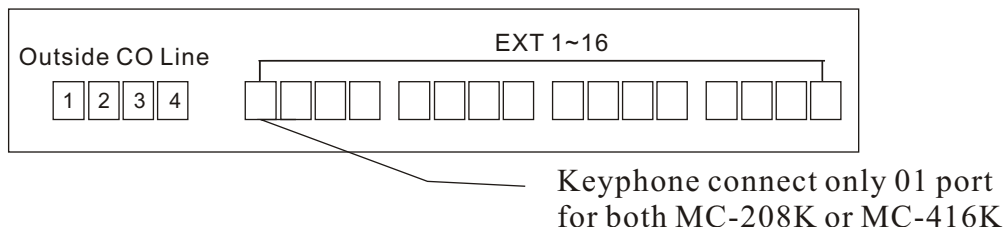**PBX Ready**: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display
① Keyphone On-hook	CHK CHK CHK (3 times)	INPUT SYS CODE
② Password	1 9 6 7 5 9 0 du	SYS PRO MODE INPUT CODE
③ Program access no.	2 7	SPECIAL PORT CONSOLE 1 :001-
	TRFR	SPECIAL PORT CONSOLE 2: ABC
④	TRFR	SPECIAL PORT CONSOLE 3: ABC
	A B C	
⑤ Save & Exit du	HOLD CLR	10/28 07:37AM 0 8001
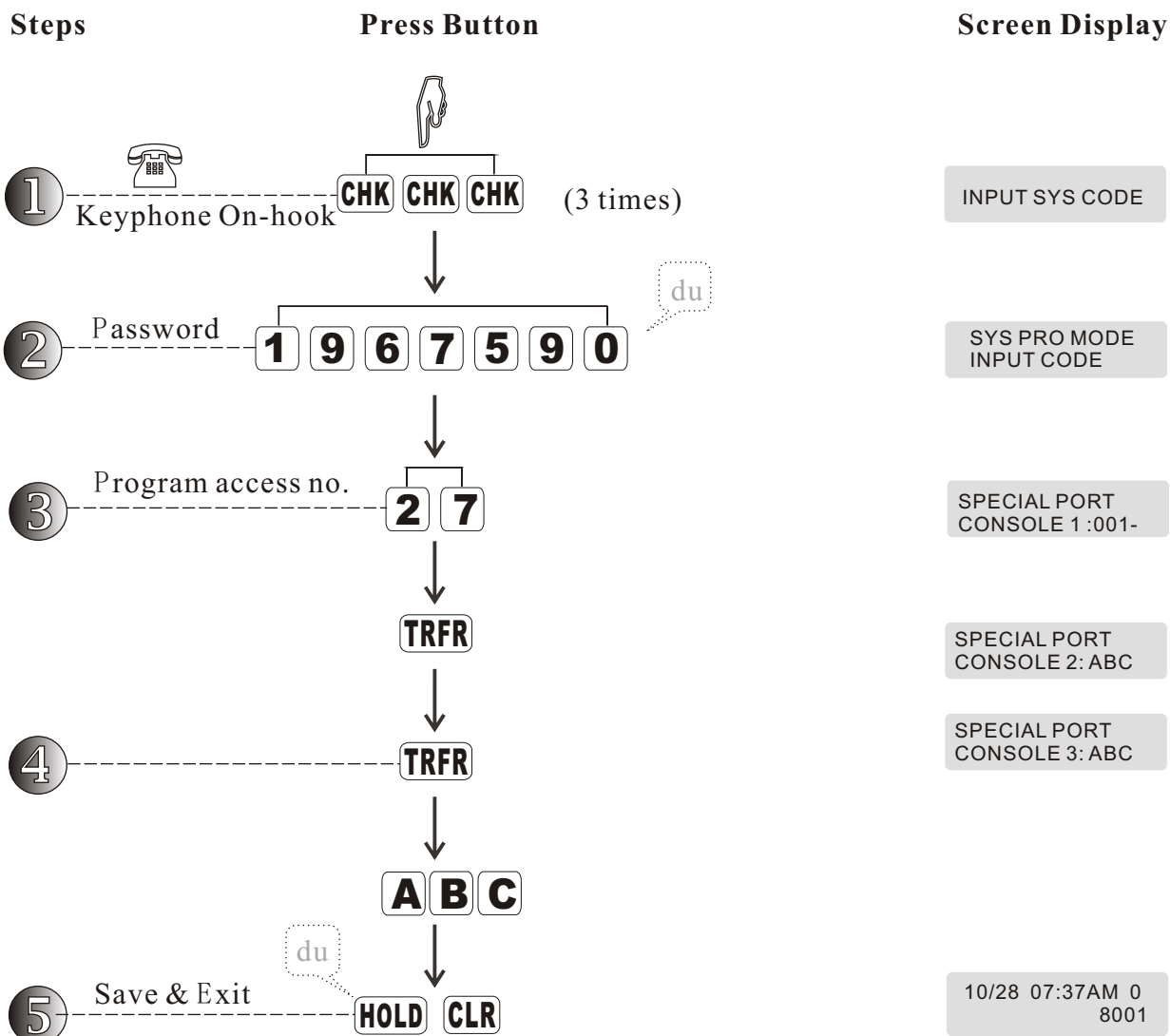
ABC- The 2-3 operator, can be extension 002~016 ,you can set max. 3-operators;

2.18 System Re-set

System can return to factory setting after the resetting
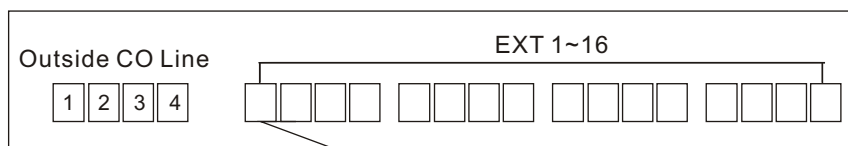
```
┌─────────────────────────────────────────────────────────────┐
│                                    EXT 1~16                  │
│  Outside CO Line    ┌──────────────────────────────────┐    │
│   ┌─┐┌─┐┌─┐┌─┐     □□□□  □□□□  □□□□  □□□□              │
│   │1││2││3││4│                                              │
│   └─┘└─┘└─┘└─┘                                              │
└─────────────────────────────────────────────────────────────┘
```

Keyphone connect only 01 port
for both MC-208K or MC-416K

PBX Ready: connect key phone set at extension port 01 only;

Steps	Press Button	Screen Display

1 Keyphone On-hook — CHK CHK CHK (3 times) — INPUT SYS CODE

2 Password — 1 9 6 7 5 9 0 (du) — SYS PRO MODE INPUT CODE

3 Program access no. — 2 8 — SYSTEM RESET 1 / 2 / 0

4 — 1 — 10/28 07:37AM 0 8001
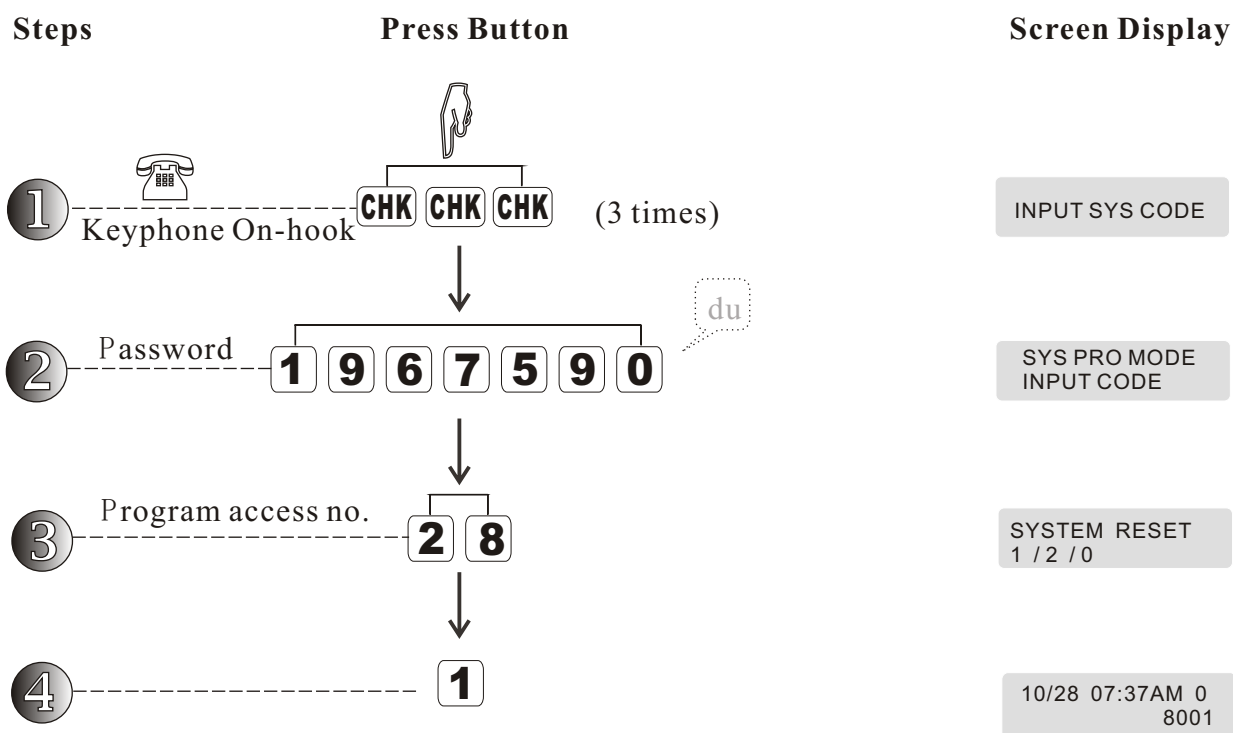
1 - press 1 is to clear all setting;

2 - press 2 is to clear all setting, but not clear Auto-attendant recording;

0 - press 0 mean do not re-set, system will return to Program Status;

Section 3

Appendix

The chapter shows the references of program, operate and other useful information you may need.

3.1 System Factory Setting List

Descriptions	Factory Setting Status	What you can do?
Extension Number	MC-208K ： From 8001,8002~8008 MC-416K ： From 8001,8002 ~8016	Modify extension number refer to Section 2, 2.18
Extension Number Modify	Prefixed new extension number must start from "1","2","8"	Modify extension refer to Section 2.18
Operators	EXT8001, 1 operator	Set 3 Operator : 3.5.26
Outside Line Ports	1~2 ports enabled, 3~4 ports disabled	Refer to Program 01
Outside Line Selection	Dial "9" to select any idle line	Refer to Program 23
Call Receive Mode	By Operator Attendant, all calls ringing to EXT8001	By Auto-attendant ,refer to Program 01
Auto-attendant	1 channel, 15sec.-7.5sec.-7.5sec., 3-level	Refer to 2.2
Toll Restriction Class	All extensions No restriction	Refer to Program 14-18
Caller ID	Full CLID Enabled	
3-minutes Alarm	Disabled	Enabled at Program 22
Call Pickup Group	All Extensions are in same Group 1	2-group: Program 24
Call Override & Cut Off	Disabled	Enabled at Program 22
Do-not-dial number when Welcome message playing	Line will be cut off	Line route to Operator,set at 2.10
Flash Time	600ms	Modify at 3.5.2
Multi-Route	Disabled, all outside line in same route	2-Route set at 3.5.5
Walking Account Password	Do not set	Set password at 3.5.20
System Program Password	1967590	Can modify at 3.5.25
Power Failure Port	Total 2ports: Outside line 1 transfer to EXT8002 Outside line 2 transfer to EXT8003	
Power Supply	220VAC, 50Hz	Change transformer

3.2 Operation Quick Reference

Features	By Key Phone	By Regular Phone
Intercom Call	*ICM* + Extension number	Off-hook + **#** + Extension number
Call Outside	Off-hook + Outside number	Off-hook + Outside number
Call Transfer	*TRFR* + Extension number	Flash *HookSwitch* + **#** + Ext. no.
Call on Hold	Press *HOLD*	Flash *HookSwitch* + **# 4**
Call hold Retrieve	from holding ext.: *ICM* + **55**	Off-hook + **# 55**
	from specified ext.: *ICM* + **5** + Ext. no.	Off-hook + **# 5** + Extension number
	from specified outside line.: *ICM* + **53** + Outside Line Port no.	Off-hook + **# 53** + Outside Line Port number
Call Pickup Randomly	*ICM* + **40** or press **✱** only	Off-hook + **# 40** or press **✱** only
Call Pickup Directed	*ICM* + **4** + Ringing Extension	Off-hook + **# 4** + Ringing Extension
Auto Call-back on-busy	Press " **6** " when Busy	Press " **6** " when Busy
Walking Account PIN	*ICM* +**##✱✱**+ password + **9** + Outside number	Off-hook + **##✱✱**+ password + **9** + Outside number
Day/Night Switch	*ICM* + **# 782 #** (Night); *ICM* + **# 781 #** (Day)	Off-hook + **# 782 #** (Night) ; Off-hook + **# 781 #** (Day)
Call Override	*ICM* + **3** + Outside Port no. + **1**	Off-hook+ **#3** + Outside Port no. + **1**
Hotline Setting	*ICM* + **762** + Extension no. + **#**	Off-hook+ **#762** + Extension no. +
Hotline Cancel	*ICM* + **760** + **#**	Off-hook+ **#760** + **#**
Call Cut-off	*ICM* + Extension number +**✱**	Off-hook + **#** + Extension no. +**✱**
Call Forwarding	Forward All Calls: *ICM* + **71** + Extension no. + **1 #**	Off-hook + **# 71** + Ext. no. + **1 #**
	Forward on-Busy: *ICM* + **71** + Extension no. + **2 #**	Off-hook + **# 71** + Ext. no. + **2 #**
	Forward on No-answer: *ICM* + **71** + Extension no. + **3 #**	Off-hook + **# 71** + Ext. no. + **3#**
	Forward on-busy & no-answer: *ICM* + **71** + Extension no. + **4 #**	Off-hook + **# 71** + Ext. no. + **4#**
Do Not Disturb(DND)	Press *FWDND*	Off-hook + **# 7110 #**
Cancel Call Forward & Do Not Disturb	*ICM* + **70#**	Off-hook + **# 70 #**
Key Phone Button Usage Display	On-hook: *ICM* + *DSS* button (1~32)	Unvalid

3.2 Operation Quick Reference

Features	By Key Phone	By Regular Phone
Key Phone Button Program On-hook : Press **ICM** 2times + desired **DSS** button (1~32) + (press optional 1,2)	**1** + Outside Line Port Number + **HOLD**	Press "1" is to set DSS button to new Outside Line Port number
	2+ Extension Number + **HOLD**	Press "2" is to set DSS button to to new Extension number
Reserve a Outside Phone number for Boss	Talking with Boss +**TRFR** + Outside number + On-hook	Talking with Boss +Flash **HookSwitch** + Outside number + On-hook
Conference Call	Talking + **CONF** + other party + **CONF** + other party + **CONF** + other party …	Talking + Flash **Hookswitch** + **# 4** + other party + Flash H**ookswitch** + **# 5**
DISA CO-CO Call	Hearing Welcome Message + **✻** + DISA password + Outside phone no.	Hearing Welcome Message + **✻** + DISA password + Outside phone no.

Remarks : in key phone MC-1 ,MC-40,MC-50, intercom button is **ICM** *, while MC-3 is* **INT**

in key phone MC-1 ,MC-40,MC-50, System Program button is **CHK** *, while MC-3 is* **FNC**

Features & Setting	Related with which System Programs (00~29)
Outside Line Connection	Program 01
Extension make outgoing Call	Program 09,10,14,23
Auto-attendant	Program 01 & Operation Quick Reference guide
Operator Mode & Auto-attendant auto-switch	Program 01,04,08
Toll Restriction	Program 14,15,16,18
PBX Line	Program 02,19
System Password Modify	Program 26
Call Override & Cut-off	Program 22 & Operation Quick Reference guide
Off-hook Route to Outside	Program 23
Walking Account PIN	Program 13,20 & Operation Quick Reference guide
Conversation Alert	Program 06, 22
Setting Operators	Program 27
System Re-set	Program 28

3.3   PBX Feature/Specification Compare List

Model Feature	MC-416K (MC-208K)	MC-824KA	MC-824KA+	MC-824KD	MC-824KD+
Basic Outside Lines	4 (2)	4	4	4	8
Basic Extensions	16 (8)	16 (4hybrid)	16 (4hybrid)	16 (4hybrid)	16 (8hybrid)
Max. Outside Lines	4 (2)	8	12	28	32
Max. Extensions	16 (8)	64	112	80	144
Max. Hybrid Ports	1 (1)	12	12	68	80
Max. Digital PRI	NO	NO	NO	1	1
Operators	2	2	2	3	3
Abbreviation Dialing	50	50	50	50	50
Toll Restriction	6-level	6-level	6-level	6-level	9-level
SMDR	NO	YES	YES	YES	YES
PC Program	NO	YES	YES	YES	YES
Call Center	NO	NO	NO	YES	YES
External Music	YES	YES	YES	YES	YES
Power Fail Ports	2 (2)	4	NO	4	NO
External Pager	NO	YES	YES	YES	YES
Doorphone,Opener	1~8	1~8	1~8	1~8	1~8
DSS Console	NO	2*64keys	2*64keys	2*64keys	2*64keys
Outgoing DISA	30s,3-level	78s,6-level*2ch	78s,6-level	78s,6-level*4ch	75s,6-level*8
Night Message	NO	12s*1 level*2ch	12s*1level*2	12s*1 level*4ch	12s*1level*8
Backup Card	NO	YES	YES	YES	YES
Backup Battery	NO	1*24VDC	1*24VDC	2*12VDC	2*12VDC
Switch Power	NO	YES	YES	YES	YES
Wake Up Call	NO	YES	YES	YES	YES
Flash Time	300~900ms	300~900ms	300~900ms	60~800ms	60~800ms
Walking Account	255	255	255	255	255
Pickup Group	4	4	4	8	8
Hunting Group	1	4	4	8	8
Boss/secretary Call	4	4	4	8	8
Conference Party	3~8party*1	3~8party*1	3~8party*1	3party*2	3~32
Music on Hold	External	External	External	External & internal	Ext.&Internal
Caller ID	All CLID	All CLID	All CLID	All CLID	All CLID
Call Forward Mobile	NO	NO	NO	YES	YES
CO-CO Call	NO	YES	YES	YES	YES
Intercom Channel	7	8	25	non-blocking	non-blocking
Ext. Numbering	2-4 digit	2-4 digit	2-4 digit	2-4 digit	2-4 digit
Ext. Prefix Number	1,2 or 8	1~8	1~8	1~8	1~8

PACKING DETAILS

Hybrid PBX	Carton Size(cm³)	Pcs/Carton	Kgs/Carton	Remarks
MC-208K KSU	52.5*27*21.5	10	13kgs	
MC-416K KSU	64*36.5*35	5	13.5kgs	
MC-824KA KSU	82*50*35(cm³)	5	30~50kgs	
MC-824KA+ KSU	82*50*35(cm³)	5	30~70kgs	
MC-824KD KSU	82*50*35(cm³)	5	30~60kgs	
MC-824KD+ KSU	82*50*35(cm³)	5	30~80kgs	
MC-1 Keyphone	66*34*27(cm³)	5	13kgs	
MC-50 Keyphone	65*29*28(cm³)	10	12kgs	
MC-3 Keyphone	62*43*24(cm³)	10	12kgs	
MC-3 DSS	62*43*24(cm³)	10	12kgs	

3.5 System Program Code List 01~29

How to Login into PBX System Program Status?

When login into System Program Status, 00,01,02~35,36 is the code list for different system program purpose, you can change the system original setting by different programs. Within each program, different digit stands for different PBX feature.

Example,

by key phone set MC-1 how to login into Program Status ?

1. On-hook > Press **CHK** 3 times > input "1967590 " (hearing beep "du..")

   After this, you can input program code from "00"~ "36";

by regular phone, how to login into Program Status?

1. On-hook > input "#787 1967590 " (hearing dialing tone)

   After this, you can input program code from "00"~ "36";

Remarks:

      1. Suggest to program system by Key Phone set, so user can see the program change and set at phone LCD. It is easier way then to program by regular phone;

      2. **TRFR** button isused to move mouse curse to different function digit & **CLR** button is to exit or clear the setting. **HOLD** button is used for save the new programs.

3.5 System Program Code List 01~29

3.5.1 Program 01: Outside Line Setting 01

The upper row display: LINE SETTING 1
The lower row display: L-ABCDE

L: 1-4 (Outside CO line number, or press " *" stand for all Outside lines)
A: 0-2 (Outside line connection & Caller ID: 0-Connect & do not enable CLID; 1-Connect &
     Caller ID display number at 3-digit or above, 2-Connect & Caller ID display number
     at 7-digit or above,
B: 0-3 (Caller ID mode: 0- Not receive CLID, 1/3- Receive only FSK CLID , 2- Receive both
     FSK/DTMF CLID)
C: 0-1 (Incoming Call receive Mode :0- Operator mode, 1-Auto-Attendant DISA mode)
D: 0-3 (Auto Attendant valid duration: 0- Invalid; 1- AA available Day Time, 2- AA available
     Night Time 3- AA available Day/Night time)
E: 0-1 (Allow Toll Restriction : 0- Not allow , 1- Allow)

3.5.2 Program 02: Outside Line Setting 02

The upper row display: LINE SETTING 2
The lower row display: L- ABCDE

L: 1~4(Outside CO line port number or press "*" for all lines)
A: 0~3(Outside line type: 0- Normal line, 1-PBX Line ,means outside Line is extension of
     second PBX, 2- PBX Line's hunting mode, 3- Normal line hunting mode)
B: 1 or 3 (Centrex Line outgoing Call 1- No need dial "9" out; 3- No need dial "0" out)
C: 0~1(Call release time: 0-1.5 seconds; 1- 4 seconds)
D: 0~2 (Flash time setting: 0-300ms ; 1-600ms ; 2-900ms
E: 0 (Keep as "0")

Remarks: PBX Line setting related with Program 19, Call hunting related with Program 24.

3.5 System Program Code List 01~29

3.5.3 Program 03: IP Least Cost Route Code Setting

The upper row display: ABBREVIATE CODE
The lower row display: SN--XXXX

SN: 00~03 (Auto IP Least Cost Route : 00- IP prefixed number for DDD; 01- IP prefixed number
for IDD; 02- IP prefixed number for Local call)
XXXX: (The prefixed number for Least Cost Route from different Telecom Carrier,max.20-digit)

3.5.4 Program 04: System Setting 01

The upper row display: SYSTEM SETTING 1
The lower row display: ABCDE

A: 0 (Keep it as "0")
B: 0 (Keep it as "0")
C: 1~4(Incoming call ringing time delay:1-1 ring , 2- 2rings,3- 3rings,4- 4rings)
D: 0~1(Outgoing call decoder release time: 0-25seconds, 1- 10seconds)
E: 0~1(Caller can dial number during Auto-attendance playing. 0- invalid, 1- valid)
It is invalid dialing within the first 1 second message playing.

3.5.5 Program 05: System Setting 02

The upper row display: SYSTEM SETTING 1
The lower row display: ABCDE

A: 0~1(No-dial number during DISA message playing : 0- do not switch to Operator , 1-
switch to Operator)
B: 0~1 (Select outside line in circle way, 0-disabled, 1- enabled)
C: 1 (Keep it "1")
D: 0~7(Holding call remind tone duration: 1~8seconds)
E: 0~1(Multi Outside Routing out selection: 0- disabled, 1- enabled).
If enabled, then dial "9" or dial "3" to select outside lines route,

3.5 System Program Code List 01~29

3.5.6 Program 06:   System Setting 03

The upper row display: SYSTEM SETTING 3
The lower row display:-ABCDE

A: 2 (Keep it "2")
B: 0 (Keep it "0")
C: 0~4 (The duration for Call Back on-busy : "0"- do not ring back,"1"- after 30sec., "2"- after 1
    min., "3"- after 1.5 min., "4"- after 2 min.)
D: 0~1(3-minute Conversation alarm mode: "0"-alarm for both incoming & outgoing call, "1"-
    only alarm for outgoing call.)
E: 0 (Keep it "0")

3.5.7 Program 07:   System Setting 04

The upper row display: SYSTEM SETTING 4
The lower row display:-ABCDE

A: 0 (Keep it "0")
B: 0~1 (IP Economical Code auto-route: 0-not allowed,1-allowed)
C: 0 (Keep it "0")
D: 1 (Keep it "1")
E: 0(Keep it "0")

3.5.8 Program 08:   Timer & Sensitivity Setting

The upper row display：TIMER SETTING
The low row display: N-SC

N: 1~6 (1- Detect Caller ID number delay time; 2- The duration between Dial IP LCR Prefixed
    code and Dial the actual Outside Number ; 3~6: The sensitivity of DISA Decoder of
    Outside Line 1~4)
SC : 00~99 (Seconds : 0~9.9seconds)
SC : 01~15 (Sensitivity code, 01 means the most sensitive)

3.5 System Program Code List 01~29

3.5.9 Program 09: Outgoing Call Line Selection -Day Time

The upper row display: DAY LN OUT SET
The low row display: ST- XXXXXXXX

ST: 001-016 (Extension port number, "***"represent all extensions)
XXXXXXXX: 0-1(the extension select which Outside Line to make outside call: "0"-Not allow; "1" -Allow.)

Remarks: XXXXXXXX ,8digit means X(Line1)X(Line2)X(Line3)X(Line4)X(Line5)X(Line6)X(Line7)X(Line8)

3.5.10 Program 10: Outgoing Call Line Selection -Night Time

The upper row display: NGT LN OUT SET
The lower row display: ST-XXXXXXXX

ST: 001-016 (Extension port number, "***"represent all extensions)

XXXXXXXX: 0-1(the extension select which Outside Line to make outside call: "0"-Not allow; "1" -Allow.)

Remarks: XXXXXXXX ,8digit means X(Line1)X(Line2)X(Line3)X(Line4)X(Line5)X(Line6)X(Line7)X(Line8). Extension select within 001~016;

3.5.11 Program 11: Ringing Extension Selection -Day Time

The upper row display: DAY LINE IN SET
The lower row display: ST-XXXXXXXX

ST: 001-016.(Extension port number,"***"represent all extensions)
XXXXXXXX: 0-1(the Outside Line will ring to which extensions: "0"-Not allow, "1" -Allow.)

Remarks: XXXXXXXX ,8digit means X(Line1)X(Line2)X(Line3)X(Line4)X(Line5)X(Line6)X(Line7)X(Line8). Extension select within 001~016;Outside Line select from XXXXXXXX, but for MC-208K is 2 Lines, MC-416K is 4Lines,other "X" invalid;

3.5 System Program Code List 01~29

3.5.12 Program 12:   Ringing Extension Selection -Night Time

The upper row display: NIGHT LINE IN SET
The lower row display: ST-XXXXXXXX

ST: 001~016(Extension port number, "***"represent all extensions)
XXXXXXXX: 0~1 (the Outside Line ring to which extensions: "0"-Not allow, "1" -Allow.)
              Extensions select from 001~016, Outside Line select from XXXXXXXX.

3.5.13 Program 13:   Incoming Ringing Time Delay Setting

The upper row display: LINE RING DELAY
The lower row display: ST-XXXXXXXX

ST: 001-016.(Extension port number, "***"represent all extensions)
XXXXXXXX: 0-1(Incoming call ring to extension, the time to ring will postponed : 0- Now
              allowed; 1- Allowed)

The Ringing delay duration is set at Program 04, item C.

3.5.14 Program 14:   Toll Restriction Class

The upper row display: SERVICE CLASS
The lower row display: ST-AB

ST: 001-016.(Extension port number, "***"represent all extensions)
A: 6-class of Toll Restriction service in Day Time
      Class 1: No restriction ,free for any call.
      Class 2: Do not allow to call the numbers set at Program 15;
      Class 3: Can't call numbers set at Program 16,but can call numbers at Program 17;
      Class 4: Restrict the numbers set at Program 15 &16,and can't call numbers at Program 17;
      Class 5: Can only call numbers set at Program 18;
      Class 6: Only intercom call allowed.

B: The class of service at Night Time (6-class same as "A").

3.5 *System Program Code List 01~29*

3.5.15 Program 15 Restriction Code A

The upper row display: RESTRICT CODE A
The lower row display: SN-XXXXXXXX

SN: 01-04 (Series number, total you can set 4 different restriction codes)
XXXXXXXXX (Restrict codes selectable, 1~8 digits)

Remarks: This restriction code related with Class 2 or 4 at Program 14.

(Default: 01-00, 02-168, 03-968, 04-969)

3.5.16 Program 16 Restriction Code B

The upper row display: RESTRICT CODE B
The lower row display: SN-XXXXXXXX

SN: 01~20 (series number, total you can set 20 different restriction codes)
XXXXXXXX (Restriction code, 1~8 digits)

Remarks: This restriction code related with Class 3 or 4 at Program 14.

(Default: 01-0, 02-168, 03-968, 04-969)

3.5.17 Program 17 Non-restriction Code C

The upper row display: UNREST CODE C
The lower row display: SN-XXXXXXXX

SN:01~12(series number, total you can set 12 different un-restriction codes)
XXXXXXXX (1~8 digits un-restriction codes,can release the restricted numbers set at Class 3 in Program 14)

3.5　System Program Code List 01~29

3.5.18　Program 18　　Emergency Code D

The upper row display: COMUNRES CODE D
The lower row display: SN-XXXXXXXX

SN: 01~04 (series number, total you can set 4 different emergency numbers)
XXXXXXXX　(1~8 digits emergency call numbers)

(Default: 01-110, 02-112, 03-119: "110" for Police,"112" for Ambulance,"119" for Fire)

3.5.19　Program　19　　PBX Line Code

The upper row display: PBX ACCESS CODE
The lower row display: SN-XX

SN:01~04 (series number, you can set total 4 different codes)
XXXXXXXX　　　　(PBX restricted code, max 8 digits)

The program used when PBX outside line port connect with extension from second PBX

3.5.20　Program 20　　Walking Account PIN Setting

The upper row display: OVER CLASS CODE
The lower row display: SN-XXXXXXXX- Y

SN: 001-032 (Account PIN series number, max. can set 32 numbers)
XXXXXX: (PIN password number, 6-digit)
Y : 1~6 (Toll Restriction Class , total 6-class)

Remarks:
You can use the PIN password to call IDD in any extensions, the cost will charged at PIN number,not at the extension.

The PIN number will be valid for 10seconds after goes on-hook.

3.5   System Program Code List 01~29

3.5.21   Program 22   Extension Setting 01

The upper row display: EXT SETTING1
The lower row display: ST-ABCDE

ST: 001-016 (Extension port number, "***"represent all extensions)
A:0~3 (Call Waiting alert switch for Intercom call or Incoming call : 0-OFF for intercom &
        incoming;1- ON for intercom & OFF for incoming; 2- OFF for intercom &ON for
        incoming; 3- ON for intercom & incoming)
B: 0~1 (Caller ID to extension: 0- off, 1- on)
C: 0~3 (3-minutes Conversation duration alert: "0"-no alert,"1"- 3min., "2"- 6min., "3"- 9min.)
        The alert related with Program 06 & line being auto-released about 90seconds after alert.
D: 0~1 (Call override and cut-off : 0-not allowed,1-allowed)
E: 0 (Keep it as "0")

3.5.22   Program 23   Extension Setting 02

The upper row display: EXT SETTING 2
The lower row display: ST-ABCDE

ST: 001-016 (Extension port number,"***"represent all extensions)
A: 0~4 (Off-hook to select Outside Line mode : 0- select any Outside Line. 1~4: to firstly
        select specified Outside Line1~4.)
B: 0~2 (Do Not Disturb setting: "0"-DND disabled,"1"-DND for incoming call, "2"- DND for
        call from both intercom and incoming)
C: 0~1 (Comply to call via IP Economical Code least cost route, "0"-off, "1"-on .)
D: 0~1 (Off-hookRroute to intercom or Outside : "0"- intercom, out by dial "9" ,"1"- Outside)
E: 0 (Keep it as "0")

3.5.23   Program 24   Pickup Group

The upper row display: PICKUP GROUP
The lower row display: SN-ST-A

SN: 1~2 (Series number, can set max. 2 different pickup groups ;and groups 1is for normal
        pickup group; group 2 is for Call Hunting group , related with Program 02)
ST : 001~016 (Extension port number, "***"represent all extensions)
A： 0~1(Join the group or exit from the group: 1-Join in,0- exit)

Remarks: max. 16 extensions in same group. Extension can not be picked up in different group.

3.5 System Program Code List 01~29

3.5.24 Program 25 Manager/Secretary Call Group

The upper row display: EXEC/SEC PAIR
The lower row display: SN-ST-st
(Secretary pick up the incoming call instead of manager. System can set 8-group manager secretary call group)

SN: 1~8 (Series number, max. can set 8 different Secretary manager pair group)
ST:001~016 (Extension port number for Manager ,"***"represent all extensions)
st: 001~016 (Extension port number for Secretary ,"***"represent all extensions)

After active this function, calls to Boss will automatically route to Secretary and then transfer the calls to Boss by Secretary.

Remarks: Do Not Disturb function should be enabled at Manager extension.

3.5.25 Program 26 System Password

The upper row display: SYS SECRET CODE
The lower row display: -XXXXXXX-

-XXXXXXX- : (Password for System Program, 7-digit)

You can check or change the system program password, original is "1967590"

3.5.26 Program 27 Setting More Operators

The upper row display: SPECIAL PORT
The lower row display: CONSOLE 1: XXX

XXX : 001~016 (Extension number selectable for Operator phone)

Press ***TRFR*** to set Operator 2 & ***TRFR*** to set Operator 3

By Regular Phone you can only set Operator 1.

3.5   System Program Code List 01~29

3.5.27   Program 28   System Re-set

The upper row display: SYSTEM RESET
The lower row display: 1/2/0
(To set system to the factory default setting, including the system program password.)

1 or 2（to reset, 1-delete all ; 2- delete all but not DISA recording）
0- do not re-set

3.5.28   Program 29   Modify Extension Number

The upper row display: PORT EXT NUMBER
The lower row display: ST-XXXX

ST: 001-016.(Extension port number,"***"represent all extensions)
XXXX: It is the desired extension number from 2 to 4-digit number. The leading digit for the
        desired new extension number start with "1" "2" or "8" in default.

Allowed number like "11,22,88, 100,288,800,1111,2999 or 8008" etc.
Extension number can't be repeated in same system.
Clear all previous extension numbers: Input " *** ", press "TRF" twice.
Clear the present extension number: Input extension number + "*TRF* + *CLEAR* + *TRFR* or *HOLD*".
Delete all previous numbers : at program 29, input " * * * * * ".