

User Manual

Anti Vandal lobby phone DRC-900LC/RF1



- Feature -

- Common 8 wires(When using the video phone)
- RF/ID



- Thank you for purchasing COMMAX products.
- Please carefully read this User's Guide (in particular, precautions for safety) before using a product and follow instructions to use a product exactly.
- The company is not responsible for any safety accidents caused by abnormal operation of the product.



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1. Greeting

- * Thank you for purchasing a COMMAX product
- * This product is a high tech Main Entrance interphone that supports electronic and remote keys features. Please read this manual carefully.




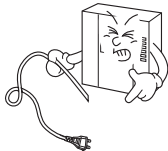



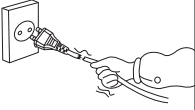





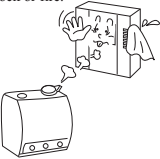



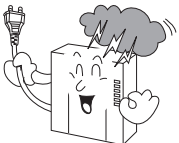






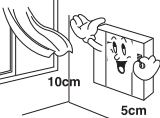




2. Safety Warning & Caution

Please follow the things described below in order to prevent any danger or property damage.

 <p>Warning It may cause a serious damage or injury if violated.</p>  <p>Caution It may cause a minor damage or injury if violated.</p>	 Prohibition.  No disassembly  No touch  Must follow strictly.  Shows plugging out the power cord without an exception  Shows the warning and caution for an electric shock.  Shows the warning and caution for a fire.
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Warning

Power & Installation	<p>Please don't use several products at the same time on one power socket.</p> <ul style="list-style-type: none"> It may cause a fire due to an abnormal overheating.    <p>Prohibition Fire</p>	<p>Please don't bend the power cable excessively or it may cause an electric shock.</p> <ul style="list-style-type: none"> fire when using a damaged power cable.     <p>Prohibition Electric shock Fire</p>	<p>Please don't handle the power cable with a wet hand.</p> <ul style="list-style-type: none"> It may cause an electric shock.    <p>Prohibition Fire</p>	<p>Please plug out the power cable from the socket when not using it for a long period of time.</p> <ul style="list-style-type: none"> It may shorten the product lifespan or cause a fire.    <p>Request Fire</p>
	<p>Please don't install the product in the place where there is much oil, smoke or humidity.</p> <ul style="list-style-type: none"> It may cause an electric shock or fire.     <p>Prohibition Electric shock Fire</p>	<p>Please don't install the product with the lightning and thunder.</p> <ul style="list-style-type: none"> It may cause an electric shock or fire.     <p>Prohibition Electric shock Fire</p>	<p>Please don't use and connect this product with other products with different rated voltage.</p> <ul style="list-style-type: none"> It may cause a disorder or fire.    <p>Prohibition Fire</p>	<p>When installing the product that generates heat, please install the product away from the wall (10cm) for the ventilation.</p> <ul style="list-style-type: none"> It may cause a fire due to the increased internal temperature.    <p>Prohibition Fire</p>

⚠ Warning

Cleaning & Use

Please don't disassemble, repair or rebuild this product arbitrarily (please contact the service center if a repair is needed).

- It may cause an electric shock or fire.



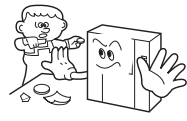
If an abnormal sound, burning smell or smoke is coming out of the product, please plug out the power cable and contact a service center.

- It may cause an electric shock or fire.



Please don't insert any metallic or burnable materials into the ventilation hole.

- It may cause an electric shock or fire.



Please use only the designated batteries for the products of using DC power.

- It may cause an electric shock or fire.

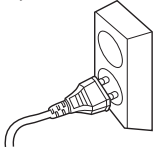


⚠ Caution

Power & Installation

Please plug the power cable firmly into the inner end

- It may cause a fire.



Please hold the plug tightly when unplugging the power cable (a part of the copper wire may be disconnected if the grabbing is only made on the cord when pulling out the cable).

- It may cause an electric shock or fire



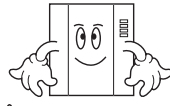
When connecting the power cables after cutting the cable, please install the product with power off

- It may cause an electric shock or fire

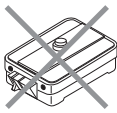


When installing the product, please fix it firmly while using the wall-mounting unit and screws.

- It may cause an injury from the falling object.



Please be careful when using an AC circuit breaker since there is a possibility of an electric shock.



Please check the use voltage and current for the DC-only products and use the appropriate rectifier.

- It may cause a fire.



Please avoid direct rays of the sun or heating devices at a time of installation.

- It may cause a fire.



Please don't install the product on an unstable place or small support board.

- It may cause an injury if it falls down while in use.



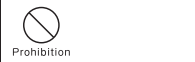
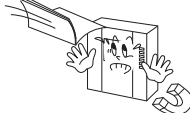
Cleaning & Use

When cleaning the product, please rub it with a soft and dry cloth after plugging out the power cable. (Please don't use any chemical products such as wax, benzene, alcohol or cleanser.)



Please don't drop the product on the ground and don't apply a shock.

- It may cause a failure.



Please use the designated connection cable within the maximum calling distance designated for the product

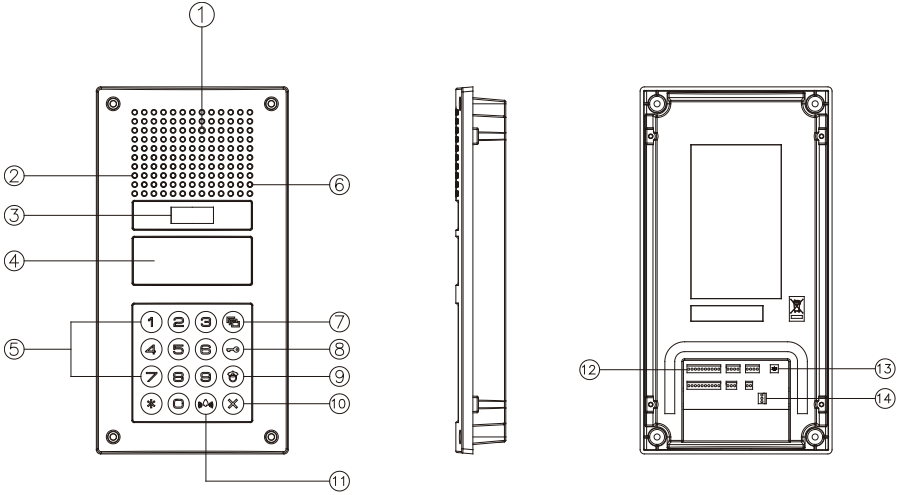
- It may reduce the product performance.





3. Overview

3-1. Part name



NO.	Description	NO.	Description
1	Camera	8	Electronic-key button
2	Speaker	9	Guard button
3	FND Display	10	Cancel button
4	RF ID	11	Call button
5	Dial button	12	Wiring connection terminal
6	Microphone	13	Reset switch
7	Program button	14	Switchgear connection terminal

3-2. Essentials

- * Program Button ⑦ (P: Program)
This button is used to Program.



↳ Program : Program Enter

- * Electronic Key Button ⑧ (K : Key)
This button is used to release the door by using PIN.
(Available only when the Electronic Key option has been set as OFF. When it is set as ON, Finger Print Recognition is enabled)

- * Guard callt button ⑨ (G : Guard)
This function is to call the guard house



- * Cancel Button ⑩ (X : Cancel)
This button is used to cancel the current operation.



- * Reset Button ⑬
This button is used to reset the Building PIN or the Management PIN



If the Management PIN can not be remembered, press the Reset button

* Change the message on FND

To change the message on FND, press the Program button (P) for 5 seconds.

1) Displaying system version

⇒ 0101-9901 SLI DRC-900L Ver.1.1

2) Displaying general message

⇒ hELLO hAPPY dAy

CAUTION



[CAUTION]

Be careful not to accumulate the foreign substance such as water, ice and dirt on the marked part of the picture (inside the button).

If there's substance on the marked part, it causes the button malfunctioning.

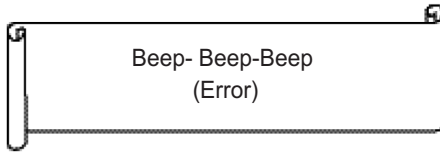
If the substance builds up, get rid of them at once before use.

- Must know Before Use!

This button is used to cancel the current operation.

- 1) Accessing All Features with the Program Button

- When an error has been made as indicated by continuous beeps, please cancel and start again from the beginning.



Start again from the beginning

- 2) Forgotten PIN

- 2-1. Household PIN

Use the Household PIN verification feature of 6-1 retrieve the PIN.
(Please inquire to the Guard Station or the Management Office)

- 2-2. Building PIN

Reenter using the Management PIN.

- 2-3. Management PIN

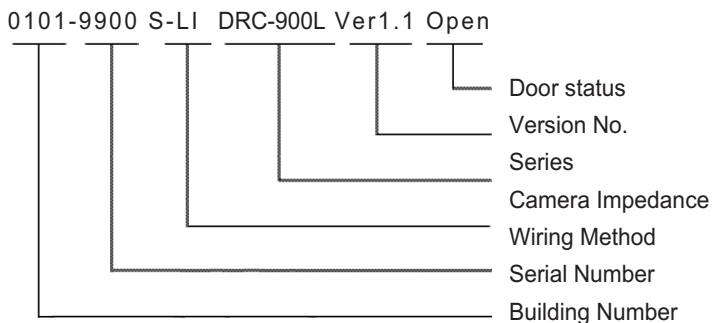
Press the Reset button.

Both the Building and the Management Building PINs are reset to default.

- 3) All Remote Cardkey Deletion is to be used only when the unit is being initially installed.

- 4) Configuration Mode Indications

Configured features are displayed on the Display Window when the Main Entrance interphone is not in use.





4. PIN Types

4-1. Management PIN

- This PIN is for use by the person in charge of the Management Office.
- By default, this PIN is set as 4321.
- For convenience, hereafter management PIN.

4-2. Building PIN

- This is the common PIN for each main entrance.
- By default, this PIN is set as 1234.
- For convenience, hereafter management PIN.

4-3. Household PIN

- Each household has its own PIN.
- By default, this PIN is set as 1234.
- For convenience, hereafter management PIN.

<Reference>

P : Program



※ Old PIN

Default Management PIN : 4321

Default Building PIN : 1234

Default Household PIN : 1234

※ New PIN

New PIN to be set by the user.

K : Electronic Key



E : Call

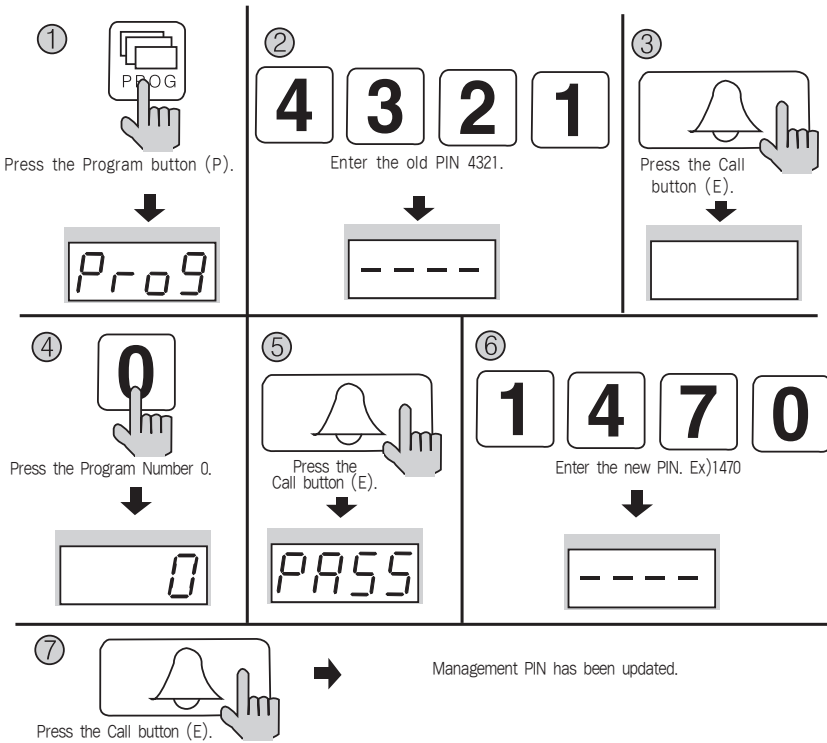




5. Setting PIN.

5-1. Management PIN Setup

- P - Old Management PIN – E – 0 – E - New PIN – E
- Management PIN must be 4-digits long.
- 0000 will no be recognized as a valid PIN.



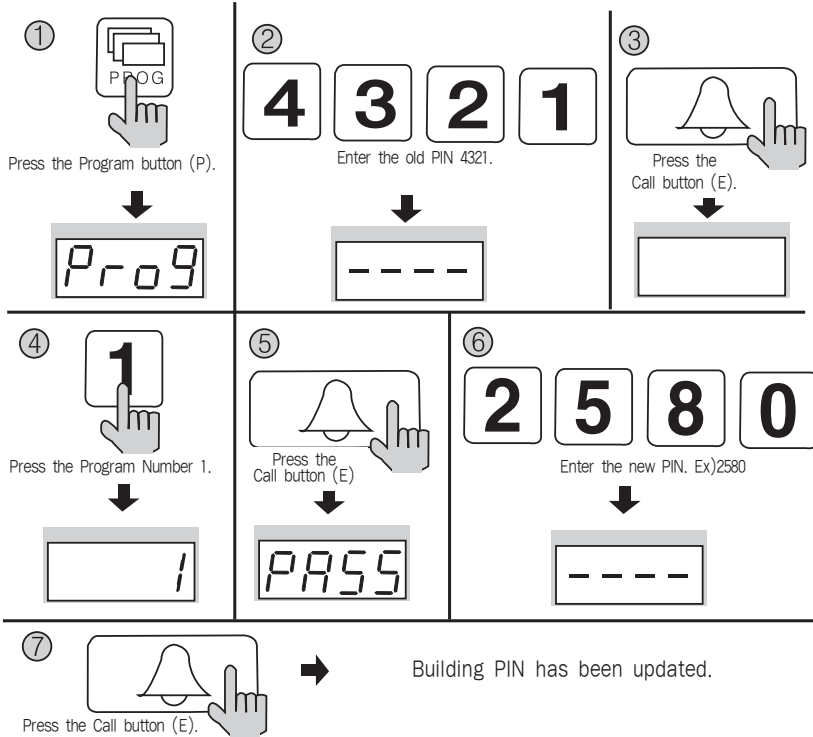
1. Press the Program button (P). ('Prog' will appear)
2. Enter the old PIN 4321.
3. Press the Call button (E).
4. Press the Program Number 0.
5. Press the Call button (E). ('PASS' will blink)
6. Enter the new PIN.
7. Press the Call button (E).
8. Management PIN has been updated.

<Note>

Be sure to change managing password ahead of use

5-2. Building PIN Setup

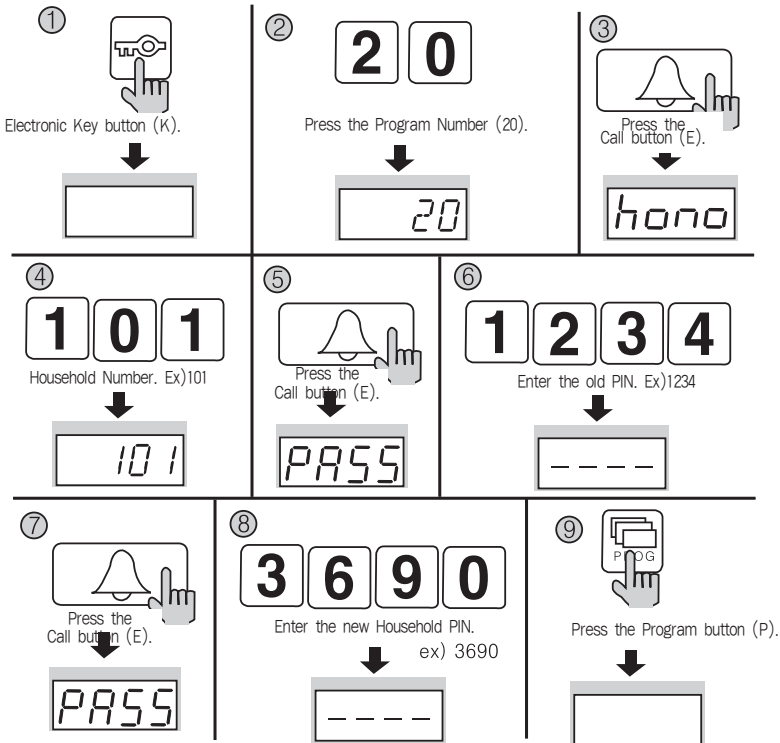
- P - Old Management PIN – E – 1 – E - New PIN – E
- Building PIN must be 4-digits long.
- 0000 will no be recognized as a valid PIN.



1. Press the Program button (P). (Prog will appear)
2. Enter the old PIN 4321.
3. Press the Call button (E).
4. Press the Program Number 1..
5. Press the Call button (E). (PASS will blink)
6. Enter the new PIN.
7. Press the Call button (E).
8. Building PIN has been updated

5-3. Household PIN Setup

- K – Program Number – E – Household Number – E – Old Household PIN – E – New PIN – P
- Household PIN must be 4-digits long.
- 0000, 1234 will not be recognized as a valid PIN.
- This method of Household PIN change may vary depending on household interphone types. (Types that support PIN changing from the household interphone)



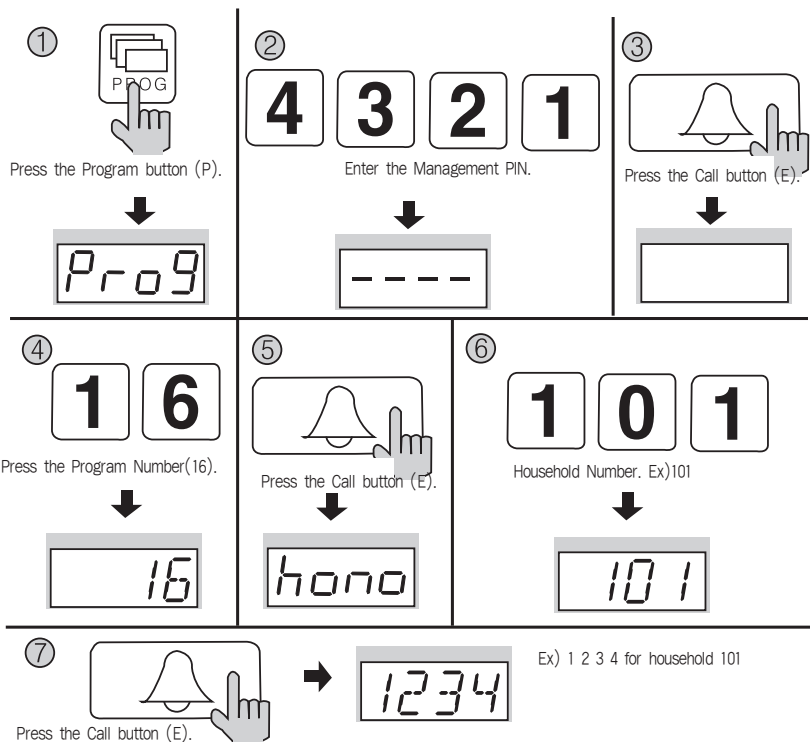
1. Press the Electronic Key button (K).
2. Press the Program Number 20.
3. Press the Call button (E). ('hono' will blink)
4. Enter the Household Number.
5. Press the Call button (E). ('PASS' will blink)
6. Enter the old Household PIN.
7. Press the Call button (E). ('PASS' will blink)
8. Enter the new Household PIN.
9. Press the Program button (P).
Household PIN has been updated.



6. Household PIN Confirmation

6-1. Household PIN Confirmation

- P - Management PIN - E - Program Number - E – Household Number – E

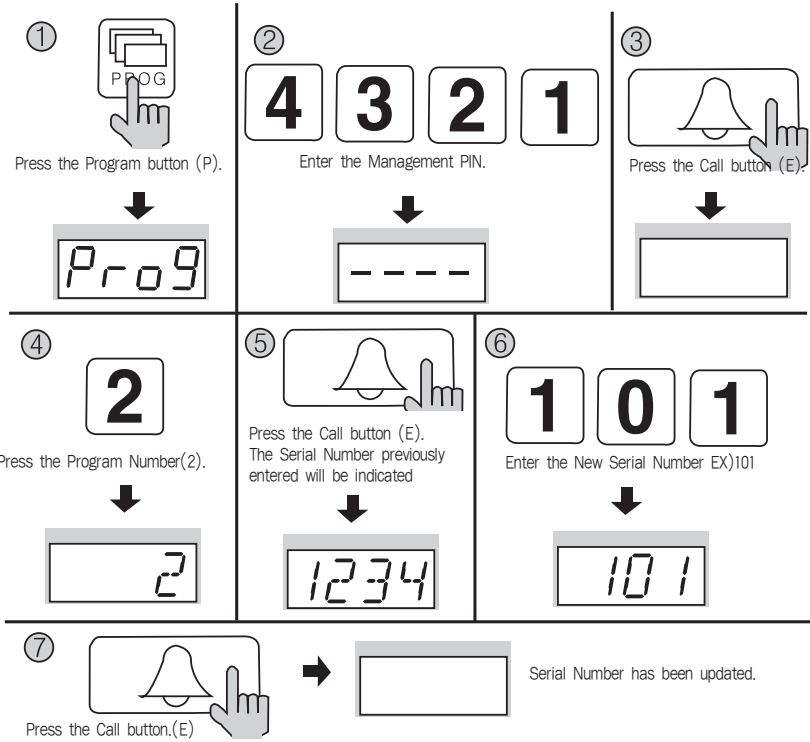


1. Press the Program button (P). ('Prog' will appear)
2. Enter the Management PIN.
3. Press the Call button (E).
4. Press the Program Number (16).
5. Press the Call button (E). ('hono' will blink)
6. Enter the Household Number. Ex)101
7. Press the Call button (E). (The Household PIN will be indicated)



7. Configuring Building and Serial Numbers in the Main Entrance Interphone

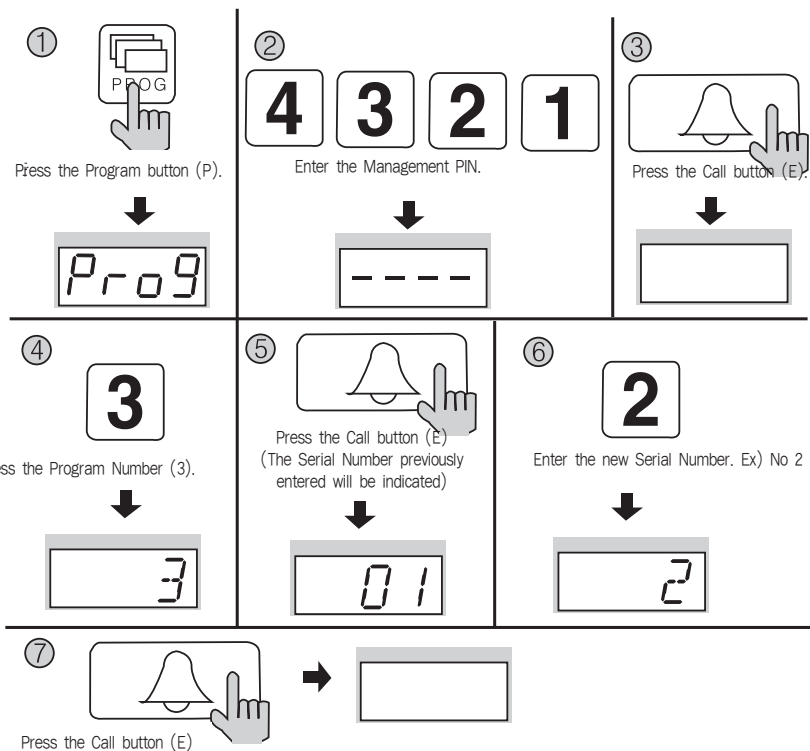
P-Management PIN - E - 2 - E - Serial Number - E



1. Press the Program button (P). ('Prog' will appear)
2. Enter the Management PIN.
3. Press the Call button (E).
4. Press the Program Number (2) .
5. Press the Call button (E). (The Serial Number previously entered will be indicated)
6. Enter the new Serial Number.
7. Press the Call button
Serial Number has been updated.

7-2. Configuring Serial Number from the Main Entrance Interphone

P – Management PIN - E - 3 - Serial Number – E



1. Press the Program button (P). ('Prog' will appear)
2. Enter the Management PIN.
3. Press the Call button (E).
4. Press the Program Number (3).
5. Press the Call button (E). (The Serial Number previously entered will be indicated)
6. Enter the new Serial Number.
7. Press the Call button.
Serial Number has been updated.

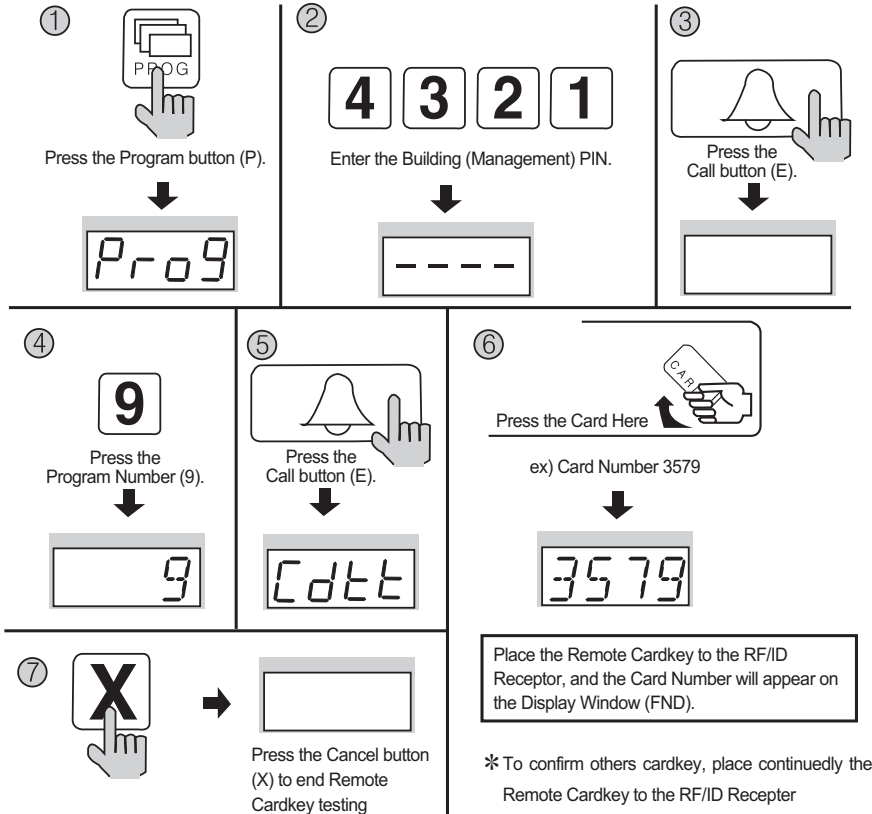


8. Using Remote Cardkeys (RF/ID)

8-1. Testing Remote Cardkeys

-P - Management PIN - E - 9 - E - Card Test - X (Cancel)

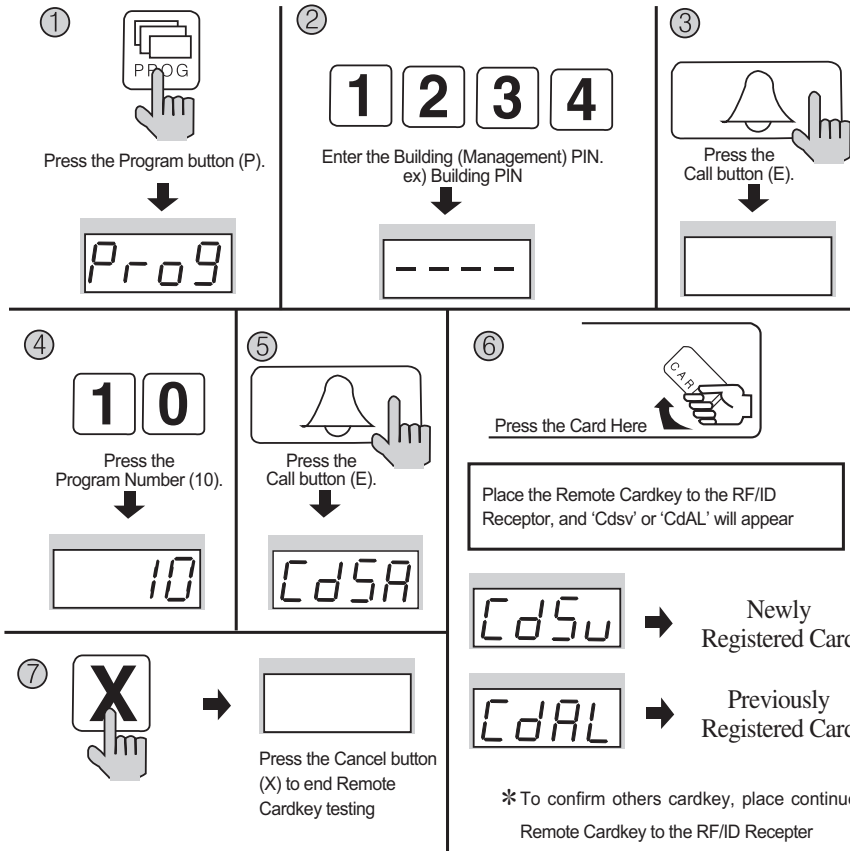
-This feature is used to test Remote Cardkeys.



1. Press the Program button (P). ('Prog' will appear)
2. Enter the Building Management PIN.
3. Press the Call button (E).
4. Press number 9 (Remote Cardkey Test).
5. Press the Call button. ('Cdtt' will blink)
6. Place the Remote Cardkey to the RF/ID Receptor, and the Card Number will appear on the Display Window (FND).
7. Press the Cancel button (X) to end Remote Cardkey testing.

8-2. Remote Cardkey Registration

- P - Building Management PIN - E - 10 - E - Card Registration - X (Cancel)



<Note>

CdSv: Newly Registered Card (Successful registration is indicated by a beep)

CdAl: Previously Registered Card (Rejected registration is indicated by two beeps)

* Up to 1024 Remote Cardkeys can be registered. (Without a computer connected)

* Please record registered Remote Cardkey's serial number for future reference.

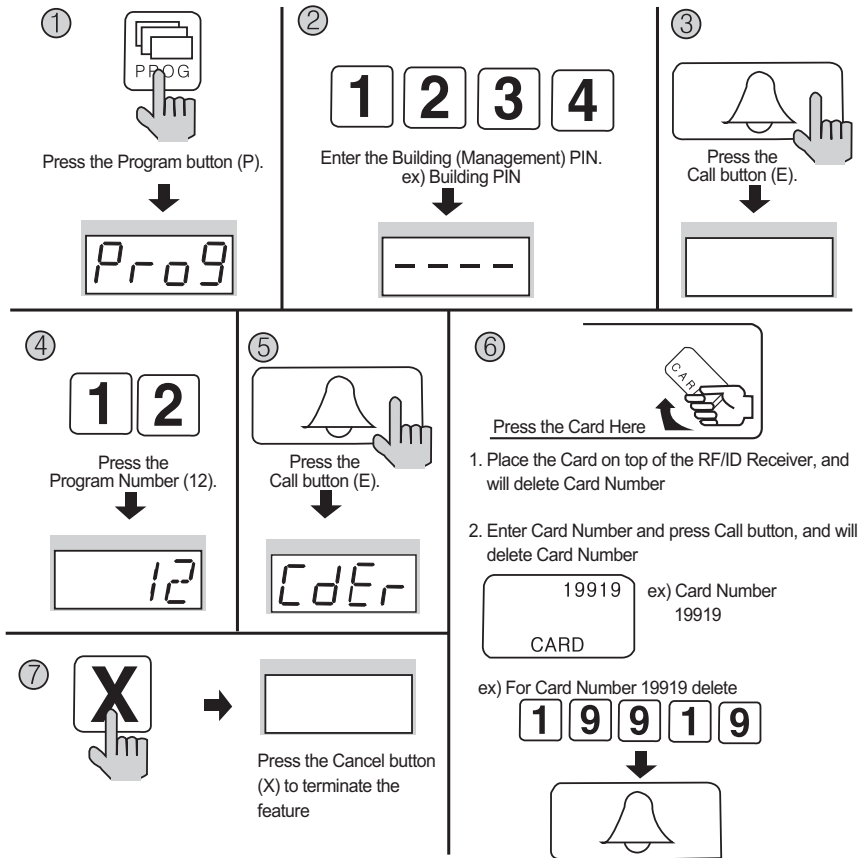
CdFu : Exceeding card storage limit (If you didn't register a card, please delete all saved card referring to 8-5 chapter)

<Caution>

Do not turn off the products within ten seconds after registering RF cards. It might cause a problem in saving RF cards information.

8-3. Individual Deletion of Remote Cardkeys

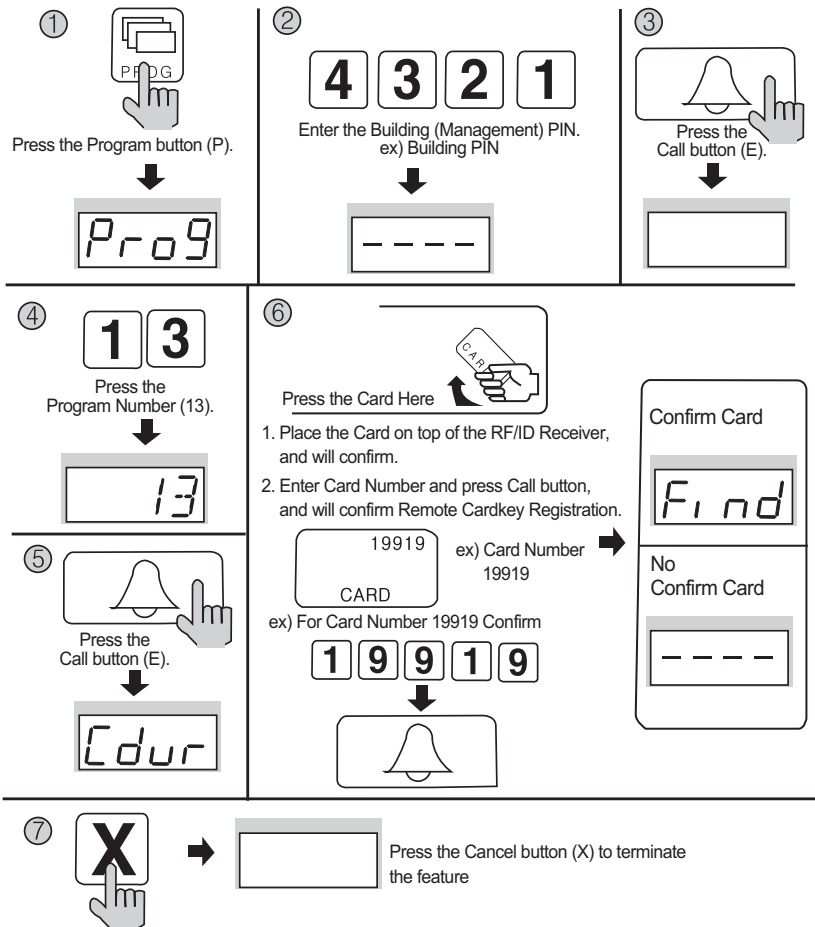
- P - Management PIN - E - 12 - E - Card Deletion - X (Cancel)



1. Press the Program button (P). ('Prog' will appear)
2. Enter the Management PIN.
3. Press the Call button (E).
4. Press number 12 (Individual Remote Cardkey Deletion).
5. Press the Call button (E). ('CddE' will blink)
6. Enter the 5-digit Card Number and press the Call button (E).
(Check on the right side of the RF/ID Card)
Or place the Card on top of the RF/ID Receiver.
7. Press the Cancel button (X) to terminate the feature

8-4. Confirming Remote Cardkey Registration

- P - Building Management PIN - E - 13 - E - Card Confirmation - X (Cancel)

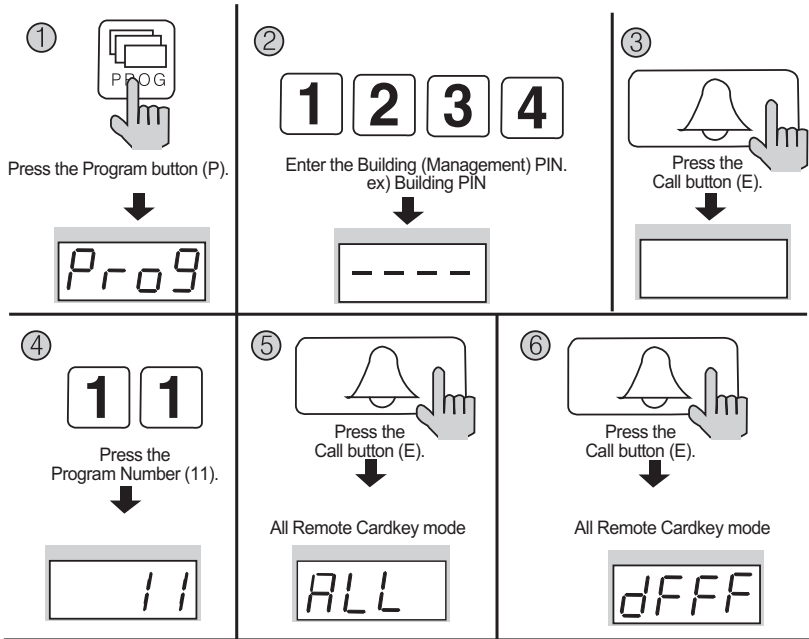


1. Press the Program button (P). ('Prog' will appear)
2. Enter the Building Management PIN.
3. Press the Call button (E).
4. Enter number 13 (Remote Cardkey Confirmation).
5. Press the Call button (E). ('CddE' will blink)
6. Enter the 5-digit Card Number and press the Call button (E).
(Check the right side of the RF/ID Card)
Or place the Card on top of the RF/ID Receiver.
7. Press the Cancel button (X) to terminate the feature.

8-5. All Remote Cardkey deletion

- P - Building Management PIN - E - 11 - E - E

- Refrain from deleting all Remote Cardkeys, except for during installation.

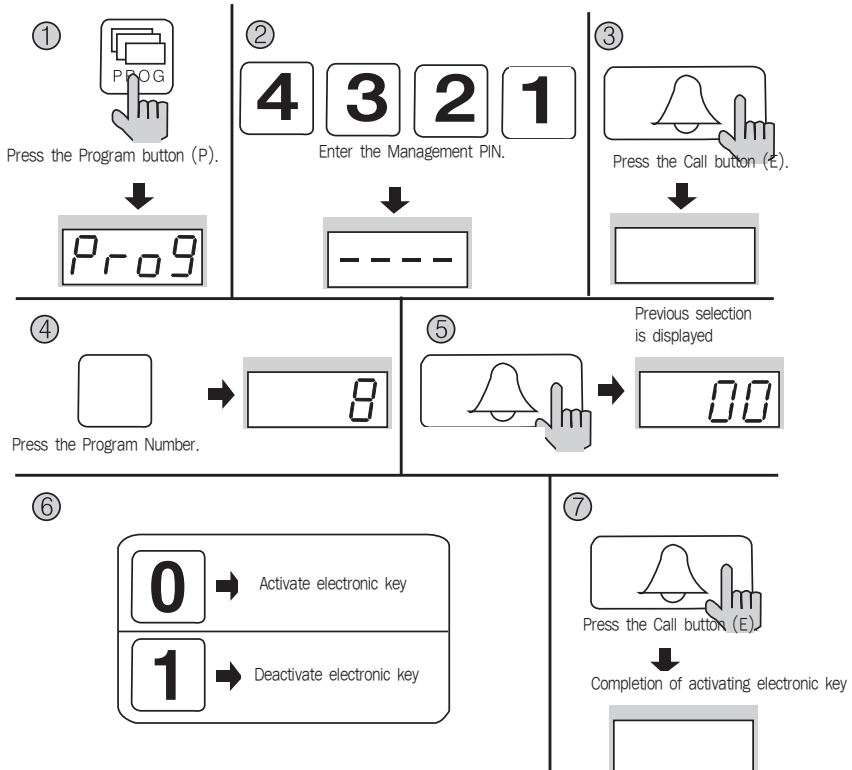


1. Press the Program button (P). ('Prog' will appear)
2. Enter the Building Management PIN.
3. Press the Call button (E).
4. Enter number 11 (All Remote Cardkey Delete Number).
5. Press the Call button (E). ('dEL' will blink)
6. Press the Call button (E) again.
The number displayed on screen will change.
7. Press the Cancel button (X) to terminate the feature.



9. Electronic key setting

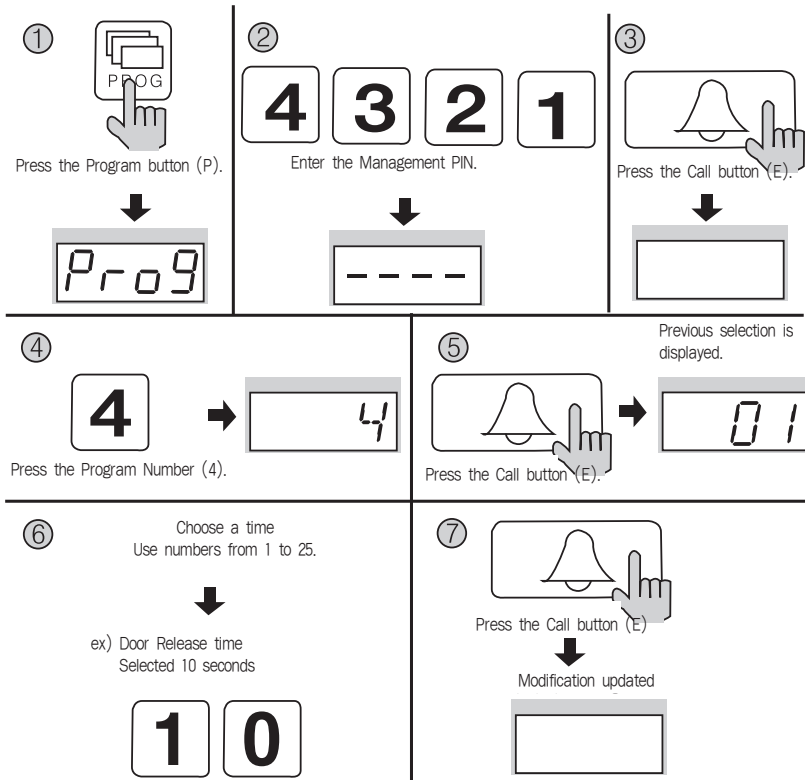
- P- Management PIN - E - 8 - E - 0 – E : Deactivate usage of electronic keys (Available PIN number access)
- P-Management PIN - E - 8 - E - E - : Deactivate usage of electronic keys Door (Not available PIN access)
- This feature is for deactivating or activating the use of electronic keys in door access .



1. Press the Program button (P). ('Prog' will appear)
2. Enter the Management PIN.
3. Press the Call button (E).
4. Enter number 8 (Monitor setting number for surveillance).
5. Press the Call button (E). (Displaying previous setting on the screen)
6. Select a mode.
(0 : Activate electronic key use)
(1 : Deactivate electronic key use)
7. Press the Call button (E) again. (Modification updated)

10. Door Release Time Setup

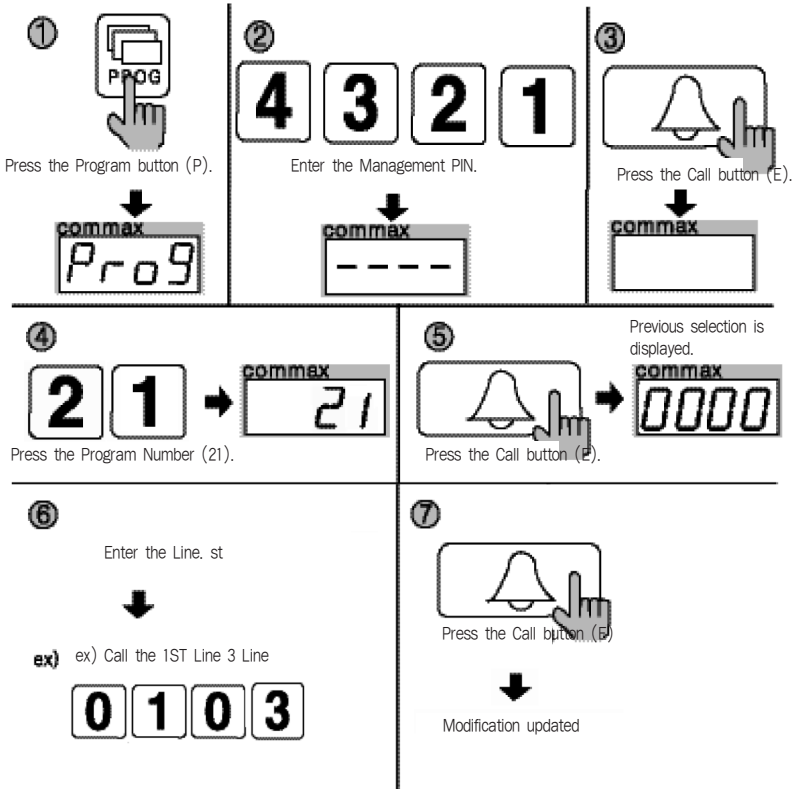
- P – Management PIN – E – 4 – E – Door Release Time - E
- This feature adjusts the door release time.



1. Press the Program button (P). ('Prog' will appear)
2. Enter the Management PIN.
3. Press the Call button (E).
4. Press number 4 (Door Release Time Setup).
5. Press the Call button (E). (Previous selection is displayed.)
6. Choose a time. (From 1 to 25 seconds)
Use numbers from 1 to 25.
7. Press the Call button (E). (Modification updated).

11. Line Call Setup

- P-Management PIN - E - 21 - E - 0 - E : All calls
- P-Management PIN - E - 21 - E - 0103 - E : Line call ex) This function is for calling to specified line like from 1sthouse line to 3rdhouse line.

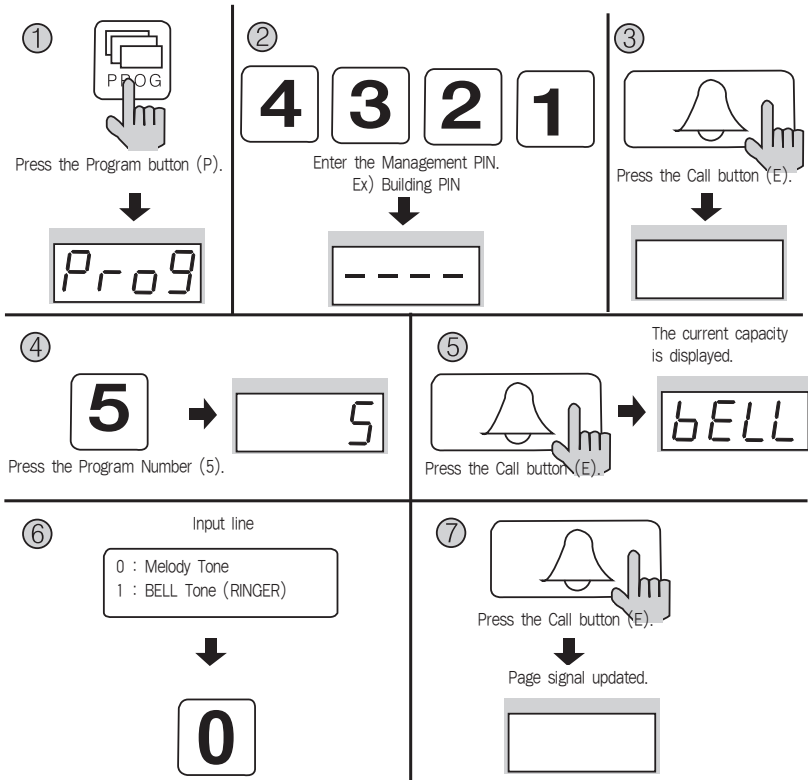


1. Press the Program button (P). (' Prog' will appear)
2. Enter the Management PIN.
3. Press the Call button (E).
4. Press number 21
5. Press the Call button (E). (Previous selection is displayed)
6. Choose a line you want to call
ex) In case of calling to 1sthouse to 3rd house line, input "0103"
7. Press the Call button (E). (Modification updated)



12. Page Signal Selection

- P-Management PIN - E - 5 - E - 0 - E: Melody Tone
- P-Management PIN - E - 5 - E - 1 - E: Bell (Ringer)
- This feature sets the Recall tone heard when Households or the Guardhouse is paged from the Main Entrance.

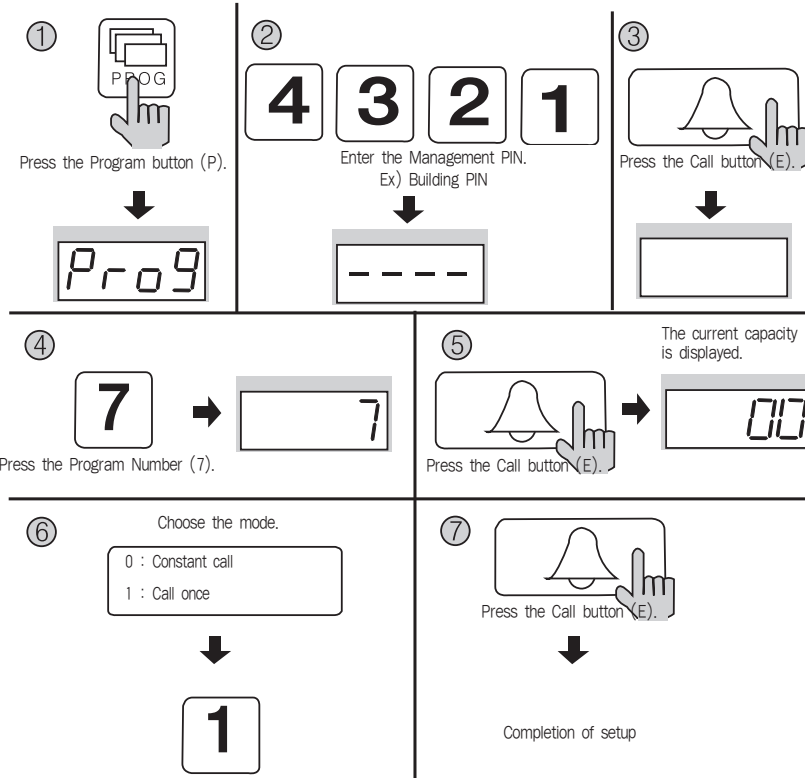


1. Press the Program button (P). ('Prog' will appear)
2. Enter the Building (Management) PIN.
3. Press the Call button (E).
4. Press number 5 (Page Signal Selection).
5. Press the Call button (E). (Previous selection is displayed)
6. Select a page signal.
0 : Melody Tone
1 : Bell (Ringer)
7. Press the Call button (E). (Page signal updated)



13. The number of emitting chime setup

- P-Management PIN - E - 7 - E - 0 - E: Constant call
- P-Management PIN - E - 7 - E - 1 - E: Call once
- This function is to set the call sound when make a call to household or guard station from the lobby.

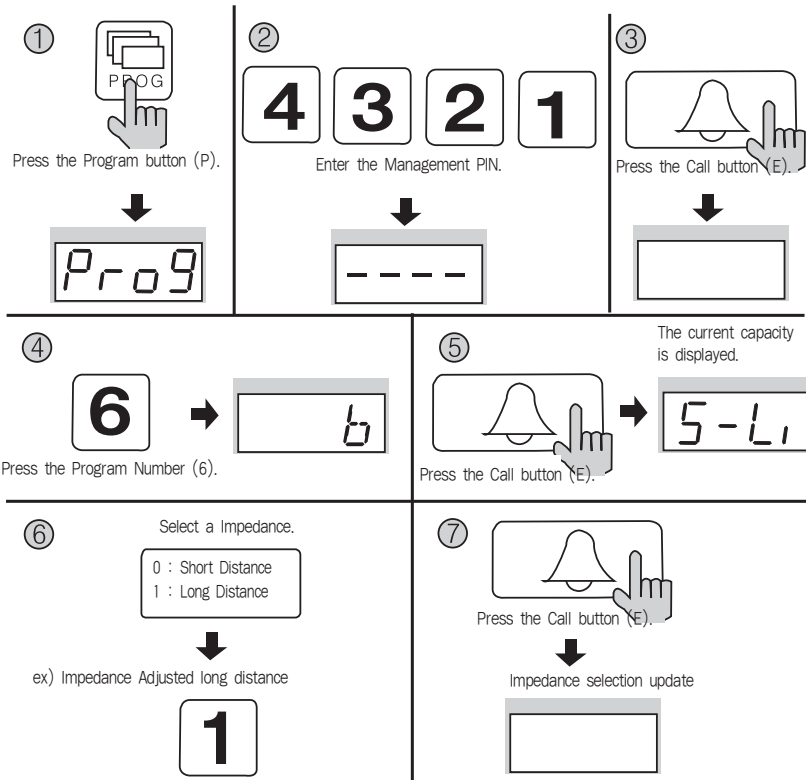


1. Press the Program button (P). ('Prog' will appear)
2. Enter the Management PIN.
3. Press the Call button (E).
4. Press number 7 (Wiring Method Selection).
5. Press the Call button (E). (Previous selection is displayed)
6. Select a wiring method.
 - 0 : Contrast call
 - 1 : Call once
7. Press the Call button (E). (Save new setting)



14. Video Out Impedance Adjustment

- P-Building (Management) PIN - E - 6 - E - 0 - E: Short Distance
 - P-Building (Management) PIN - E - 6 - E - 1 - E: Long Distance
 - By default, the unit is set for short distance.
- Do not change if possible.

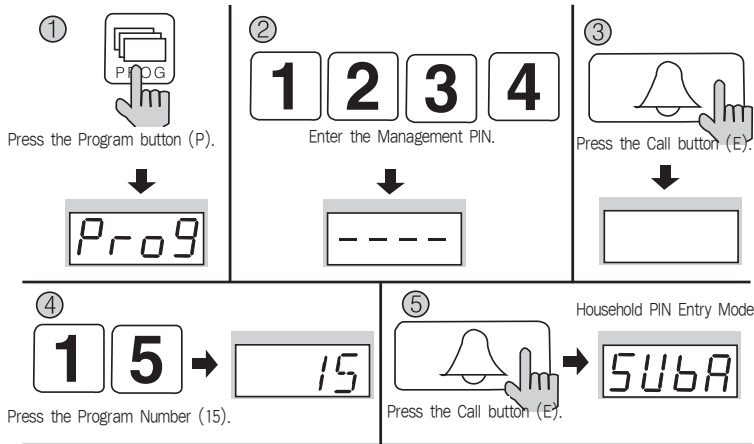


1. Press the Program button (P). ('Prog' will appear)
2. Enter the Building (Management) PIN.
3. Press the Call button (E).
4. Press number 6 (Wiring Method Selection).
5. Press the Call button (E). (Previous selection is displayed)
6. Select a wiring method.
 - 0 : Short Distance
 - 1 : Long Distance
7. Press the Call button (E). (Save new setting)



15. InputHousehold number

- P-Management PIN - E - 15 - E - Household Number - E-Multi Sub number - E
- This function is for inputting household number with lobbyphone in case of a guard stationunit is not installed



- ⑥ Lift up the receiver from the Household and press the Guard button to page the Main Entrance Interphone, where the Household Number will be displayed.
 (Then, the displayed number must be changed for it is the default number from the factory.)

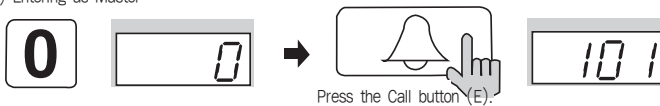


ex) Entering as first
 1234

- ⑦ Enter the Household number and press the Program button.
 Ex) Entering as Unit 101



- ⑧ Enter the Multi Sub number "0" and press the Page button (E).
 ex) Entering as Master



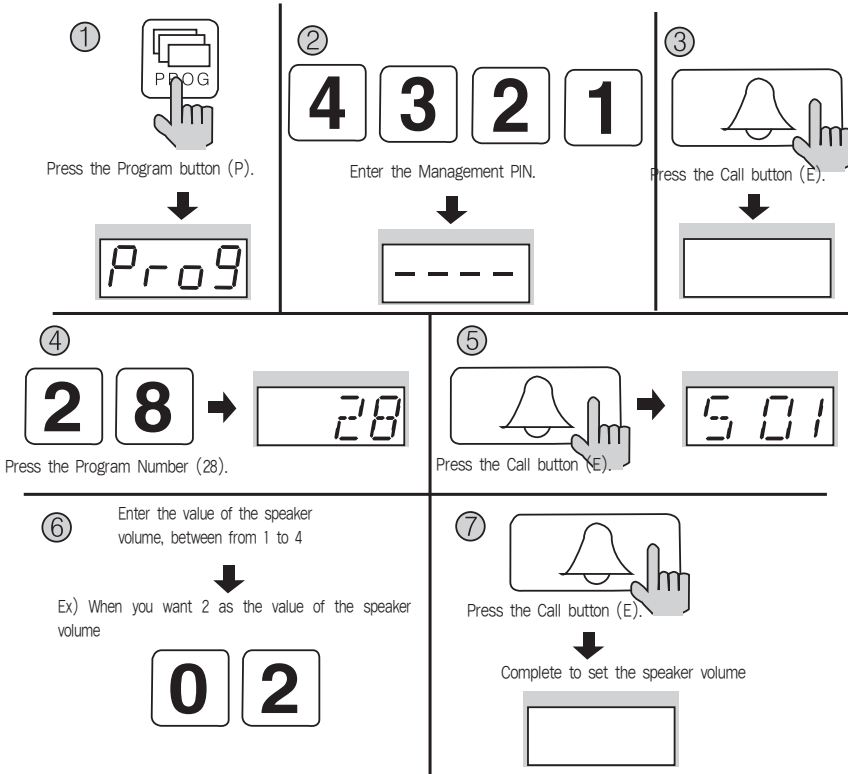
- ⑨ Follow the same procedure to enter other Households. Press the Cancel button (X) to end.

1. Press the Program button(P). ('Prog' will appear)
2. Enter the Management PIN.
3. Press the Page button(E).
4. Enter number 15 (Household Interphone Diagnosis).
5. Press the Page button (E). ('idCh' will appear)
6. Call to guard station from household
7. The Household's status is shown on the display window(FND).
8. Household Number, then press the Page button (E).
('sub' will appear)
9. Input Multi sub number "0", then press the Call button(E).
10. To check other Households, repeat steps 6~ 9.
Press the Cancel button (X) to terminate the feature.



16. A Talk volume control

- P - Administration password - E - 28 - E - Volume(Level) - E
- Through this function, You can adjust the speaker volume of the common lobby phone

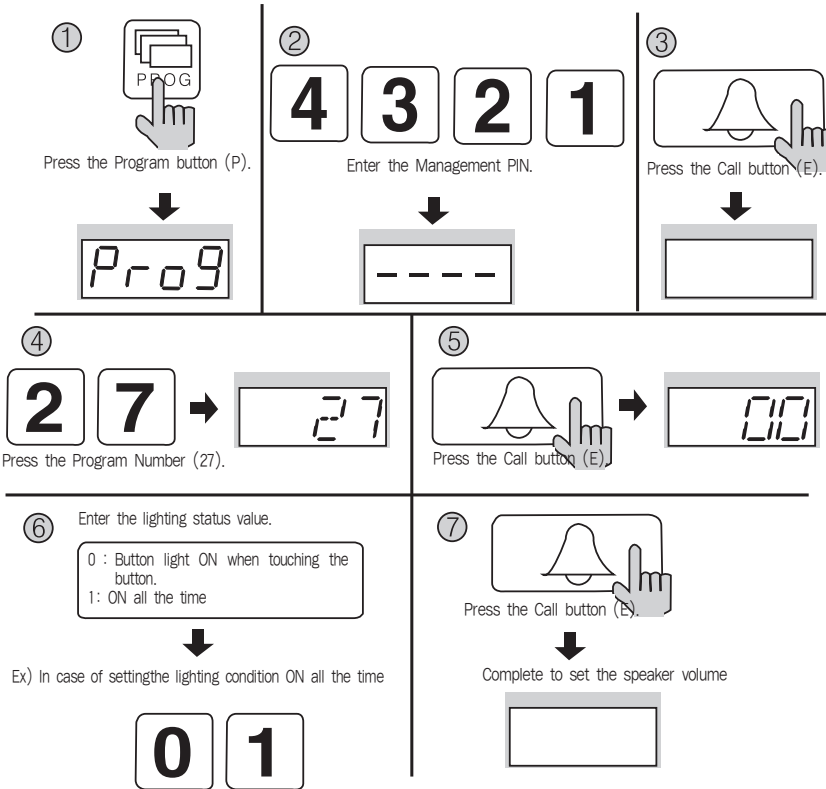


1. Press the program button. "Prog" word will appear.
2. Enter the administration password.
3. Press the call button "E".
4. Enter no. "28", (the number to control the speaker volume)
5. Press the call button "E"
(The value of the speaker volume, already inputted, will appear)
6. Enter the value of the speaker volume, from 1 to 4.
(If it indicates "2", it is 2 level of volume.)
7. Press the call button "E" (The value of the speaker volume is adjusted)



17. How to set the button lighting

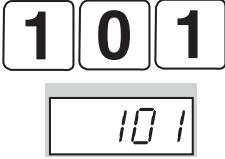
- P- Administration password - E - 27 - E - 0 - E : Light on (When it is touched)
- P- Administration password - E - 27 - E - 1 - E : Light on (Always)
- Through this function, you can adjust the light of the key button.



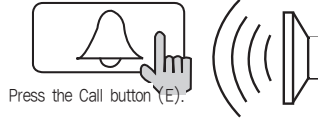
1. Press program(P) button. ("Prog" will be turned on)
2. Enter the administration password
3. Press the call(E) button
4. Enter No.27 button(Button for light control)
5. Press the call(E) button
Inputted value will appear.
6. Select the light setting (Default is 0)
0: Light on (When it is touched)
1: Light on (Always)
7. Press call(E) button (Adjusted value will be inputted)

18. Paging the Household

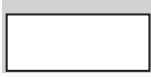
- ① Enter the Household Number
Ex) unit 101



- ② .Press the page button.
A paging tone will sound.



- ③ Wait for a reply.

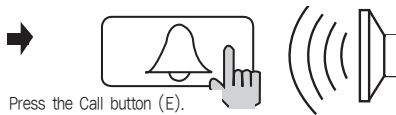


19. Paging the Guard Station

- ① Press the Guard button.



- ② Press the Page button.
A paging tone will sound.



- ③ Wait for reply.





20. Door Release Using the Household PIN

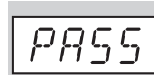
* Household Number – K – Household PIN - E

- ① Enter the Household Number.

Ex) To open the door of unit 101



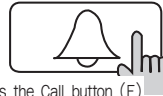
- ② Press the Electronic key button.



- ③ Enter the Household PIN.



- ④ Press the Page button.



Press the Call button (E).



21. Door Release Using the Building (Management) PIN

* G – K – Building (Management) PIN - E

- ① Press the Guard button.



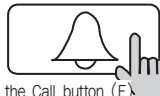
- ② Press the Electronic key button.



- ③ Enter the Building or the Management PIN.



- ④ Press the Page button.



Press the Call button (E).

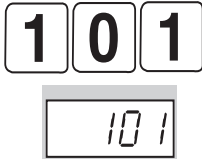


22. How to use lobby phone.

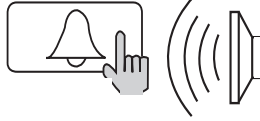
* Calling to household from lobby phone

* Household number – E

- ① Press the household number
ex) In case of household 101



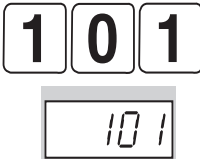
- ② Press the Call button.
Emit call sounds



* Opening door with household PIN

* Household number – K – household PIN – E

- ① Press the household number
ex) In case of household 101



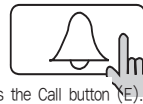
- ② Press the Key button



- ③ Press the Household PIN



- ④ Press the Call button



Press the Call button (E).





23. Appendix (Various Program Summaries)

Various PIN Programs

1. P - Old Management PIN - E - 0 - E - New PIN- E: Management PIN Change
2. P- Old Management PIN -E -1 - E - New PIN - E: Building PIN Change
3. K - 20 - E - Household Number - E - Old Household PIN - E - New PIN - P: Household PIN Change
4. P - Management PIN - E - 16 - E - Household Number - E: Household PIN Confirmation

Configuring Building and Serial Numbers from the Main Entrance Interphone

1. P - Management PIN - E - 2 - E - Building Number - E : Building Number Setup
2. P - Management PIN - E - 3 - E - Serial Number - E : Serial Number Setup

Door Release Using Various PINs

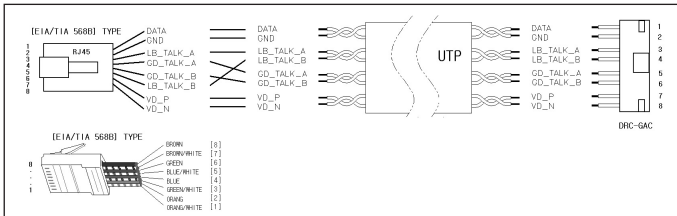
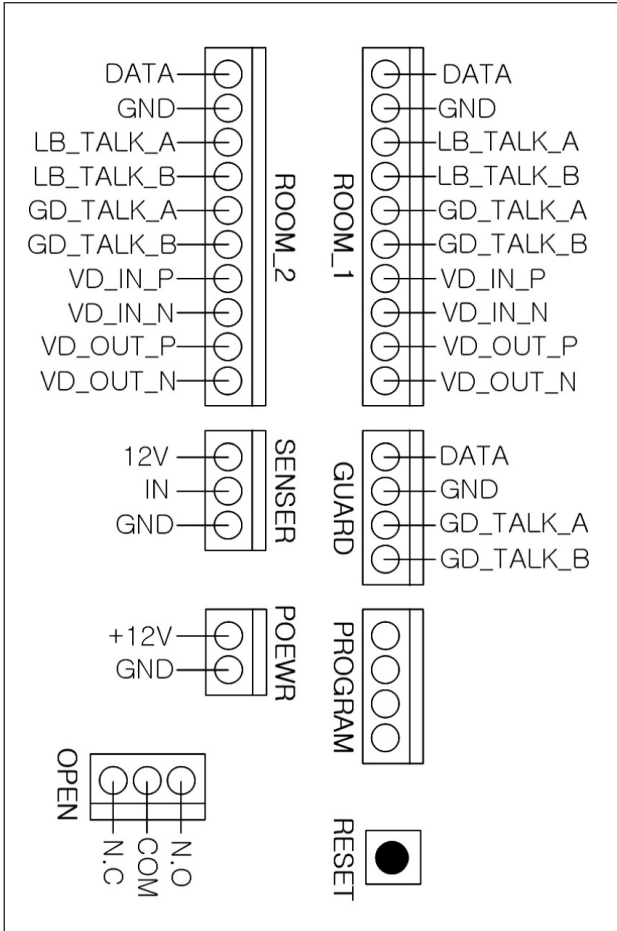
1. G - K - Building (Management) PIN - E : Door release using Building (Management) PIN
2. Household Number - K - Household PIN - E : Door release using Household PIN

Other Feature Setup Methods

1. P - Management PIN - E - 4 - E : Door Release Time Setup
2. P - Management PIN - E - 5 - E : Page signal selection
3. P - Management PIN - E - 6 - E : Wiring Method Selection
4. P - Management PIN - E - 15 - E : Household Number Registration

24. Wiring Method

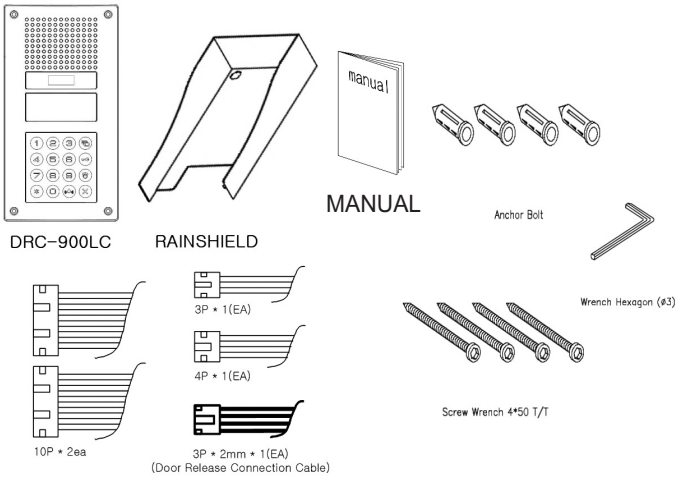
Lobby camera phone(DRC-900LC)



25. Miscellaneous

※ Please carefully read this User's Guide before calling service man After checking the entire check list, please contact customer service center. We will do our best to make you satisfy with our services.

26. Part list



27. Specifications

Installation Method	Flush Mounted
Model Name	DRC-900LC/RF1
Transmission System	Household (8 wire), Guard (4 wire)
Rated Voltage	12V $\overline{\text{---}}$, 0.5A
Power Consumption	Standby: 200mA, Max : 500mA
Conversation	Hands-free
Frequency	15.735KHz, 60Hz / 15.625KHz, 50Hz
Camera	C-MOS(Pin Hole type)
Effective Viewing Angle	Horizontal : 47 ° , Vertical : 34 °
Minimum Illumination	0.1Lux(Within 300 mm from the camera)
Distance	UTP cable 300meter
Built-in light	LED
Temperture	-20℃ (tested up to -40℃)~ +50℃
Dimension	136(W) X 260(H) X 36(D)mm



Memo

COMMAX

COMMAX Co.,Ltd.

513-11, Sangdaewon-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea

Int'l Business Dept. Tel. : +82-31-7393-540~550 Fax. : +82-31-745-2133

Web site : www.commax.com

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