



# **Emerald™ ICE Cordless Telephone**

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Quick Start Guide

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## Important User Safety Instructions

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Tadiran Telecom pays careful attention to quality standards in the manufacture of all our products. Safety is a major factor in the design of every Emerald ICE Keyset and system. However, safety is YOUR responsibility, as well.

Please read the helpful tips listed below and on the next page. These suggestions will enable you to safely use your new Emerald ICE Keyset. Please retain these tips for later use.

### **CAUTION:**

**This terminal is NOT for residential use. It is for Emerald ICE systems applications ONLY. Use in a non-Emerald ICE environment could result in an electrical short circuit when the telephone wiring is set up to provide other telephone service and a Emerald ICE Keyset is plugged into the wiring.**

### **Use**

When using a Emerald ICE Keyset, the following safety precautions should always be followed to reduce the risk of fire, electric shock and injury to yourself and/or others.

- Read and understand all instructions.
- Follow all warnings and instructions for the terminal.
- This terminal can be hazardous if immersed in water. To avoid the possibility of electric shock, do not use it while you are wet. If you accidentally drop the terminal into water, do not retrieve it until you have first unplugged the line cord from the modular jack. Then, call service personnel to ask about a replacement.
- Avoid using the terminal during electrical storms in your immediate area. There is a risk of electric shock from lightning. Extremely important calls should only be made and should be brief. Even though protective measures may have been installed to limit electrical surges caused by lightning from entering your business, absolute protection from lightning is impossible.
- If you suspect a natural gas leak, report it immediately, but use a terminal away from the area in question. The terminal's electrical contacts could generate a tiny spark. While unlikely, it is possible that this spark could ignite a heavy concentration of gas.
- Never push objects of any kind into the equipment through openings in the terminal since they may touch hazardous voltage points or short out parts that could result in a risk of electric shock. Never spill liquid of any kind on the terminal. If liquid is spilled, however, refer servicing to proper service personnel.

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- To reduce the risk of electric shock, do not disassemble this terminal. Emerald ICE Keysets have no user serviceable parts. Opening or removing covers may expose you to hazardous voltages. Incorrect reassembly may cause electric shock when the terminal is subsequently used.

### **Cleaning and Service**

Before cleaning, unplug the terminal from the modular wall jack. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Unplug the terminal from the modular wall jack. Be sure to refer servicing to qualified service personnel when these conditions exist:

- If liquid has been spilled into the terminal.
- If the terminal has been exposed to rain or water.
- If the terminal has been dropped or the housing has been damaged.
- If you note a distinct change in the performance of the terminal.

**SAVE THESE INSTRUCTIONS**

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# **Introduction**

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## **Emerald ICE Cordless Handset**

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### *Introduction*

The *Emerald ICE Cordless* EKT phone set connects to the *Emerald ICE* phone system to provide powerful and convenient cordless functions for the business user.



Each handset is equipped with a charging unit that operates via 9VDC Power Adapter. Two EKT lines connect the KSU to a Base Unit, also operating via a 9VDC Power Adapter. If the handset ID is #1, this indicates that the handset is connected to Line #1. If the handset ID is #2, this indicates that the handset is connected to Line #2.

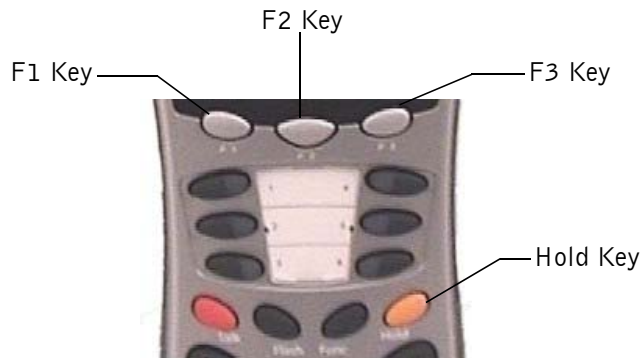




The system provides a simple setup function to install the cordless system easily. The user simply presses and holds the [F1] key for 1 second. The system will then automatically enter the System Programming mode. The LCD will display:

>LANGUAGE  
REGISTRATION

When the user enters the [System Programming Mode], all [Soft keys] will be changed the following programming function keys:



[F1] key: [DOWN] key.

[F2] key: [UP] key.

[F3] key: [OK] key.

[Hold] key: [EXIT] key.

---

The user can then use the above programming function keys to set up 3 different LED flash cadences as follows:

1. **Normal Operation:** LED Flashes [Normally]: 500ms on, 500ms off, repeatedly. In Normal mode, the user can make/receive a call by the handset unit through the base unit.
2. **Base In Transition Mode:** LED Flash [Slowly]: 1000ms on, 1000ms off, repeatedly. In the Transition mode, the user is changes the DIP switches status. The system will wait for 5 seconds to ensure correct operation.
3. **Base In Register/De-Register Mode:** LED Flash [Fast]: 125ms on, 125ms off, repeatedly. After a user changes DIP switches status for 5 seconds, the base enters the register and/or de-register mode. The user can register/de-register the handset to the base.

# **System Registration**

## System Registration

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Registration programming allows a handset user to register the handset to the Base Unit. In summary;

1. Power up the base unit and enter the registration mode on the base unit.
2. Select the handset and set it to registration mode.
3. Move the handset near the base.

The system will automatically register the handset and assign the handset ID.

1. Turn the power OFF and then on again on the base unit. This initiates the registration mode on the base unit.
2. Set DIP SWITCH-1 to OFF and set the other 2 DIP switches to on. After 5 seconds, the system will enter registration mode.



*Note:*

*The LED on the base will flash [Fast] when enter the registration mode.*

3. If the handset was never registered, the LCD will display the following message.

PLEASE  
REGISTER!

Press and hold the [F1] key for 1 second to enter the System Programming mode. The LCD will display:

>LANGUAGE  
REGISTRATION

Press [F1] or [F2] to select registration mode.

>REGISTRATION  
DE-REGISTER

Press [OK] key to enter registration mode, the LCD will display:

REGISTRATION  
NO?

Press [F1/F2] key to select the [YES?] mode.

REGISTRATION  
YES?

You can select [YES] to register, or [NO] to exit this mode. Press [F3] (the same as [OK] key) to confirm, the LCD will display: (e.g. [YES])

REGISTERING...  
PLEASE WAIT!

4. Move the handset near the base. The system will start to register with the base unit. If the registration operation is successful, the LCD will display:

REGISTERED  
HANDSET #1

*Note:*

- 1. There are 2 EKT lines from KSU to the base.*
  - 2. If the handset ID is #1 means the handset is connect to the Line#1. If the handset ID is #2 means the handset is connect to the Line#2.*
5. If the registration function fails, the LCD will display:

FAILED!  
TRY AGAIN!

**Note:**

*If the user wants to register again steps 1 through 5 above re-register to base unit.*

6. Change the DIP SWITCH on the base changes to normal mode - Switch-1, 2, and 3 are OFF.



**Note:**

*The LED on the base will flash [Normally] when the unit comes back to normal mode.*

---

### *De-Registration Programming by the Base*

If a user wants to de-register all handsets or remove one handset only, they can perform de-registration the handset by the base unit. The handset unit must be moved to a position near the Base Unit to receive a de-registration command. After de-registration, the handset unit won't link with the base any more.

There are 2 ways to de-register the handset unit.

**Operation Procedure for Method-A (Using the base only):**

1. De-register all handsets

Turn DIP SWITCH-1, SWITCH-2 to ON and turn off-SWITCH-3 to OFF.



After 5 seconds, the system will de-register all handsets.

---

**Note:**

*The LED on the base will flash [Fast] when enter the de-registration mode.*

**2. De-register Handset #1.**

Turn DIP SWITCH-3 to ON, and SWITCH-1 and SWITCH-2 to OFF.



After 5 second, the system will de-register handset #1.

**Note:**

*The LED on the base will flash [Fast] when enter the de-registration mode.*

**3. De-register Handset #2.**

Turn DIP SWITCH-2 and SWITCH-3 to ON and SWITCH-1 to OFF.



After 5 second, the system will de-register handset #2.

**Note:**

*The LED on the base will flash [Fast] when enter the de-registration mode.*

**4. Turn all of the DIP SWITCH on the base changes to OFF.**

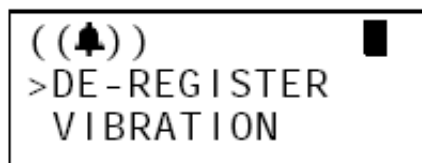


**Note:**

*The LED on the base will flash [Normally] when the unit comes back to normal mode.*

**Operation Procedure for Method-B (Using the base and handset):**

1. Verify that the Base Unit is in the idle mode.
2. With the handset in standby mode, press and hold the [F1] key for 1 second to enter [PROGRAM MODE] and then select the corresponding item (De-register Mode), the LCD will display:



Press [F3] to enter the mode and the LCD will display:



Press [F1/F2] key to select the [YES?] mode.



You can select [YES] to de-register, or [NO] to exit this mode.

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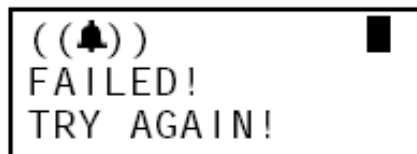
Press [F3] to confirm, the LCD will display: (e.g. [YES]).



If the de-registration is successful, the LCD will display:



If the de-registration fails, the Handset LCD will display the following after 20-30 seconds:



**Note:**

1. *Using the method-A or B, the system must be in idle mode. And, user must remove the power from base and re-power on the base.*
2. *Using the method-A,*
  - a) *If the Base Unit can't linked to handset, the handset will still be de-registered.*
  - b) *If the Base Unit de-registers one handset only and the handset doesn't receive a de-registration command from the Base Unit, the handset will still link with the Base Unit but it can't use the system.*
3. *Using the method-B,*
  - a) *The base doesn't need to enter the de-registration mode.*

*b) The handset unit must be moved to near the base to receive de-registration command from base unit.*

*c) Only one handset can de-register to the base at a time.*

3. After de-registration, the handset LCD will display:

A rectangular box representing the handset LCD display. Inside the box, the text "PLEASE REGISTER!" is displayed in a simple, uppercase, sans-serif font, centered horizontally and vertically.

4. About the De-Register, please refer to the part of the programming mode for further detail.

---

#### *Connect to KSU*

Use can connect line#1 and line#2 between the KSU and unit to finish the setting. The corrective connection procedure should be:

1. Remove Line#1, Line#2, and power cord from base unit.
2. First of all, connect Line#2. (You can skip it, if you use line#1 only.)
3. Secondly, connect Line#1.
4. Finally, plug the power cord. (You can skip it, if you don't use extra AC power.)

#### Note:

If user re-connects any line#1 or line#2 or AC power cord, the system must follow the above procedure to re-connect to the line and power cord. Otherwise, the system maybe works incorrect.

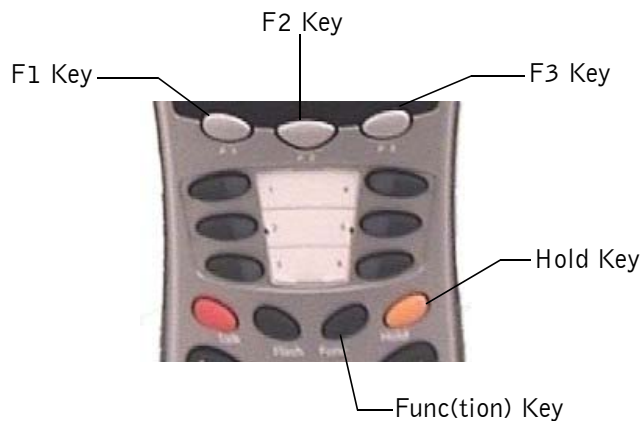


# **Programming the Handset**

## Programming the Handset

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The system provides a programming mode to set up user-friendly features. When a user enters the [System Programming Mode], all [Soft keys] will be changed the following function key:



[F1] key: [DOWN]

[F2] key: [UP]

[F3] key: [OK]

[Func]key: [PROGRAM]

[Hold] key: [EXIT]

## *Programming Summary*

The following describes the programming available on the handset unit. In general, press the [PROGRAM] key and then press [DOWN/UP] to select the item that you want to program.

The following are the different items available to program and their options:

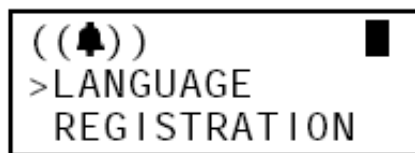
| Item          | Note (*: Default Value)             |
|---------------|-------------------------------------|
| LANGUAGE      | ENGLISH *, FRENCH, SPANISH          |
| REGISTRATION  |                                     |
| DE-REGISTER   |                                     |
| VIBRATION     | RING *, VIBRATOR, RING and VIBRATOR |
| AUTO PICK UP  | RECEIVER *, HANDSFREE, DISABLE      |
| RELEASE CALL  | BY TALK KEY*, BY SPKR KEY           |
| RESET HANDSET |                                     |

### *Language Setting*

The [Language Selection] programming will provide 3 different languages for users. They are: English, French, and Spanish. Default: English.

Proceed with the following to set the Language used.

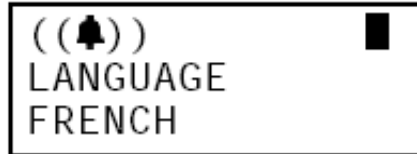
1. In standby mode, press and hold the [F1] key for 1 second. When entering the System Programming mode, the LCD will display:



2. Press [F3] to enter the change mode. The LCD will display:



- 
3. Press the [F1] key to change the item. (Or, [F1/ F2] to select the other language):



4. Press the [F3] (the same as [OK] key) to confirm. The handset will generate a confirmation “beep”. The LCD will display:



After 3 seconds, the LCD will return to the first programming option (Language Registration).

Note:

1. If the setting is successful, the unit will generate the confirmation beep and display [OK!] for user's reference.
2. The tri-lingual display is for the row-1 of the LCD display only. The row-2 and row-3 display will be the same as the KSU Setting.
3. The other setting items also have confirmation beep and [OK!] indication.



---

## *Registration Programming*

Registration programming allows the handset user to register the handset with the Base Unit.

1. Enter the programming mode by pressing and holding the [F1] key for 1 second. The LCD will display:



2. After the handset beeps and enters the programming mode, press the [F1] key a second time to display the following:



3. Press [OK] key to enter registration mode, the LCD will display:



4. Toggle the [F1/F2] keys to select the [YES?] mode. Select [YES] to register, or [NO] to exit this mode.



---

5. Press the [F3] key to confirm. The LCD will display:



REGISTERING...  
PLEASE WAIT!

If the registration operation is successful, the LCD will display:



REGISTERED  
HANDSET #1

*Note:*

*You can refer to the part of System Registration in the previous section for further details.*

---

### *De-Registration Programming*

If a user does not plan to use the handset any more or wants to register the handset to the another Base Unit, it may be necessary to cancel the registration with the original Base Unit.

Only one handset can de-register from the Base Unit at a time.

Prior to beginning the de-registration process, verify that the system is not being used and that the handset is near the registered Base Unit.

1. Press and hold the [F1] key for 1 second to enter the programming mode.
2. After the handset beeps and enters the programming mode, press the [F1] key 2 more times to display the following:



((📞))  
>DE-REGISTER  
VIBRATION

3. Press [F3] to enter the change mode. The LCD will display:



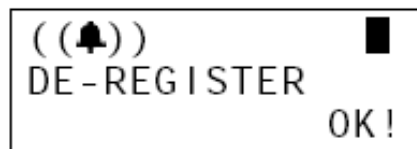
4. Toggle the [F1/F2] keys to select the [YES?] mode. [YES] will de-register, [NO] will exit this mode.



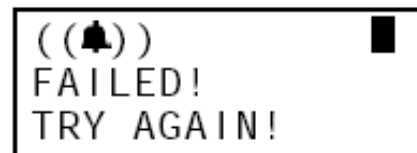
5. Press [F3] to confirm. The LCD will display: (e.g. [YES])



If the de-registration was successful, the LCD will display:



If the de-registration fails after about 20-30 seconds, the Handset LCD will display:



---

**Note:**

1. *The base doesn't need to enter the de-registration mode. And, the system must be in idle mode.*
2. *Only one handset can de-register to the base at a time.*
3. *The handset can register to the other base without de-registration to the original base. But the original base will keep the handset information forever.*
4. *About the registration operation, please check Registration or Installation section.*

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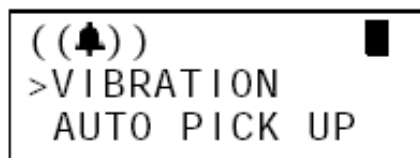
**Vibration Programming**

There are 3 Vibration modes available:

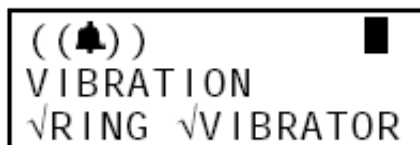
- RING
- VIBRATOR
- RING + VIBRATOR

The default setting is for RING.

1. Press and hold the [F1] key for 1 second to enter the programming mode.
2. Press the [F1] key 3 more times and the LCD will display:



3. Press [F3] to enter the change mode. The LCD will display:



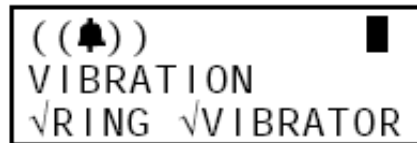
4. Toggle the [F1/F2] keys to change the item.



5. Press [F3] to confirm. The LCD will display: (Ring mode only shown)



If user selects [Ring and Vibrator] mode, the LCD display will show both ring and vibrator icons.



**Note:**

1. The unit will generate the reference ring or/and vibration for the user to refer the ring type.
2. The mark [ã] means that user enables this function.
3. There are some icons (( )) on the row-1. It will indicate user's setting. Ring and/or Vibration.
4. Press the [F1] key, the change sequence is [RING => VIBRATOR => RING + VIB => RING => ...]. And, if press [F2] key, the change sequence is [RING + VIB => VIBRATOR => RING => RING + VIB => ..... ].

**Auto Pick Up Programming**

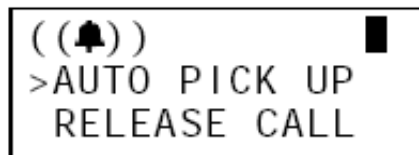
Auto Pick Up Programming allows the user to pick up the phone call by receiver or handsfree mode when the user lifts the handset from the cradle.

There are 3 available modes for [Auto Pick Up] programming:

- RECEIVER
- HANDSFREE
- DISABLE.

The default setting is for RECEIVER.

1. Press and hold the [F1] key for 1 second to enter the programming mode.
2. Press [F1] 4 more times and the LCD will display:



3. Press [F3] to enter the change mode. The LCD will display:



4. Toggle the [F1/F2] key to change the item.



Or

Press [F3] to confirm. The LCD will display: (Handsfree mode shown):



---

### *Release Call Programming*

Release Call Programming allows the user to release the phone call in speakerphone mode by using the TALK key or the SPEAKER key. If the SPEAKER Key is selected, it will release the call when pressing the [SPEAKER] key in speakerphone mode. If the TALK Key is selected, it will change to [Receiver Mode] when pressing [SPEAKER] key in speakerphone mode.

There are 2 modes for Release Call programming:

- BY TALK KEY
- BY SPKR KEY

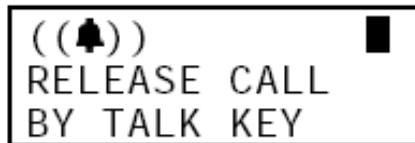
The default setting is for BY TALK KEY.

1. Press and hold the [F1] key for 1 second to enter the programming mode.

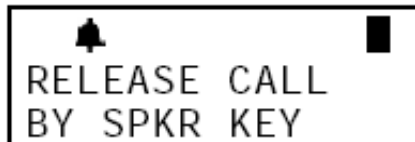
2. Press [F1] 5 more times and the LCD will display:



3. Press [F3] to enter the change mode. The LCD will display:



4. Toggle the [F1/F2] keys to change the item.



5. Press [F3] to confirm, the LCD will display: (By SPKR KEY shown):





## *Reset Handset Programming*

Reset Programming will reset the handset unit back to the default status.

1. Press and hold the [F1] key for 1 second to enter the programming mode.
2. Press [F1] 6 more times. The LCD will display:



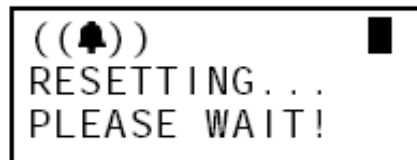
3. Press [F3] to enter the mode. The LCD will display:



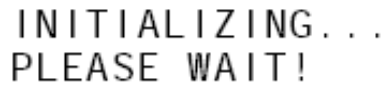
4. Toggle the [F1/F2] keys to select the [YES?] mode. Selecting [YES] will reset the handset. Selecting [NO] will exit this mode.



5. Press [F3] to confirm. The LCD will display: (e.g. [YES]):



After 3 seconds, the handset comes back to the default status and the LCD will display the following message for 5 – 10 seconds.



INITIALIZING...  
PLEASE WAIT!

If the handset never registers to the base or has been reset, the LCD will also display:



PLEASE  
REGISTER!

# **Extra Functions**

## Extra Functions

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The *Emerald ICE* cordless system provides more information for RF Link status and Battery Power status. The user can easily find the current handset status about the RF Link and Battery status.

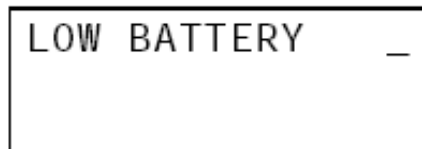
*Note:*

- 1. All new information about RF and Battery status will be displayed on the row-1 of the LCD.*
- 2. The row-2 and 3 of the LCD display won't be affected.*

---

### *Low Battery Power Status*

The handset will display a battery power status icon on the upper right corner of the LCD. If the battery power is too low to work, the unit will also display a [LOW BATTERY] character before the battery is out of power completely.



If the handset is not in the standby mode, the icon would be flashing at the cadence of 0.5 sec, on-and-off repeatedly when the battery power is too low. However, it can't flash when in a low battery condition and in standby mode. If the handset is in the talk mode, the unit will also generate a warning beep for 15 seconds.

### *Out Of Range Status*

If the handset is in talk mode and the user is an extended distance away from the Base Unit, the handset will display [OUT OF RANGE] and generate the warning beep per 5 seconds:



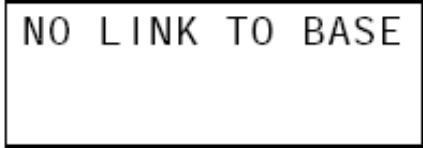
OUT OF RANGE

If the user does not return to close proximity of the Base Unit, the call will be dropped within 30 seconds.

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### *No Link to Base Status*

If the handset is at an extended distance away from the Base Unit or the power of the Base Unit is removed for 30 seconds, the handset will display [NO LINK TO BASE] to indicate the handset can't link with the Base Unit. Row-2 and Row-3 of the LCD will not receive information from base and appear as blank on the Rows-2 and 3 on the display.



NO LINK TO BASE

It is recommended that the user re-register the handset to verify the registration status.

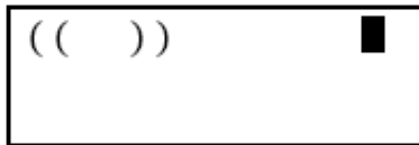
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### *Ring and Vibrator Status*

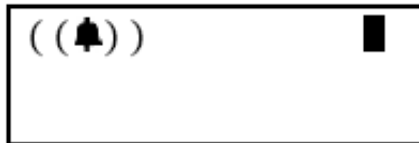
If a user sets [Ring mode] only, a [Ring] icon will appear on the LCD.



If a user selects [Vibrator mode] only, (( )) will appear on the LCD.

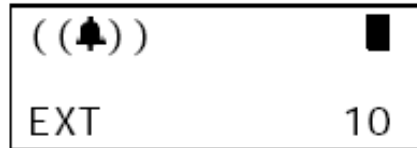


If a user selects [Ring and Vibrator mode], both icons will be displayed on the LCD.



### *Sleeping Mode Status*

For power saving purposes, the handset will enter sleeping mode automatically when there is no special event in the system. Row-3 of the LCD will display a handset extension number for the user's reference. Row-2 will be blank, to extend standby time.



The user can press any key to “wake up” the unit. If the handset receives any special information from the Base Unit, it will also wake up automatically.

*Note:*

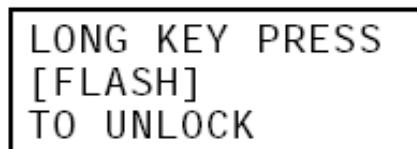
*If the handset in sleeping mode, the LED will not be turned on.*

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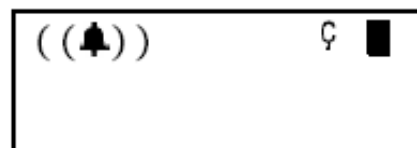
### *Key Lock Mode Status*

If a user presses and holds the [Flash] key for 2 seconds, the handset will be in key locked/unlock mode.

When a handset is in the key unlocked mode (normal mode) and long keypress [Flash], the unit will enter the lock mode automatically. The LCD will display a 3-second display as follows to indicate how to unlock the mode:

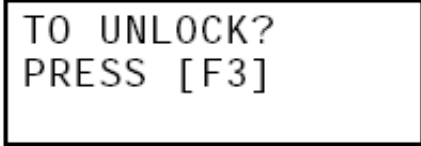


After 3 seconds, The LCD will display:



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When handset is in the key locked mode and long keypress [Flash], The LCD will display a 3-second display as follows:



TO UNLOCK?  
PRESS [F3]

If a user presses the key [F3] within 3 seconds, the handset will be in key unlock mode.

*Note:*

*The [Flash] key will be changed to [TRANSFER] key in some models.*

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#### *Power On/Off Mode Status*

When a handset is in the power-on mode, you can long keypress [Hold] for 2 seconds, the handset power will be turned off. The LCD will display 3 seconds as follows:



POWER OFF

When handset in the power off mode, you can long keypress [Hold] over 2 second, the handset will be turn on the power. The LCD will display a 3-second display as follows:



POWER ON



### *No Link to KSU Status*

When power is on for approximately 1 minute, and the Base Unit still cannot link with the KSU, the handset will display the following:





# **System Limitations**

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## Extra Functions

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### *Registration and De-Registration*

All registration and de-registration functions can operate during the 1st one minute only, therefore, the user must remove the base power and re-power on the base unit to register or de-register the system.

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### *Off Hook Voice Announcement (OHVA)*

The system can't provide the OHVA function.

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### *Headset Operation*

The system provides a headset plug and play function. A user doesn't need to enable or disable the headset unit. The headset operation is not going to be changed by a user's setting.

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### *Key Tone Indication*

If a user enables the Tone Key function, the 12-digit key won't provide the [key tone] function when the unit is in the talk mode.



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**Emerald ICE Cordless Handset Quick Start Guide**