



Emerald™ ICE Cordless Telephone

Quick Start Guide

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Important User Safety Instructions

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

Emerald ICE Cordless Handset

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.

Hand Set



Base Unit



Caution:

The Base Unit is a digital device and must be connected with digital ports on the system or damage to the Base Unit could occur.

Note:

The Base Unit does not require an AC power source. Power is received from the Emerald ICE KSU via Port #1.

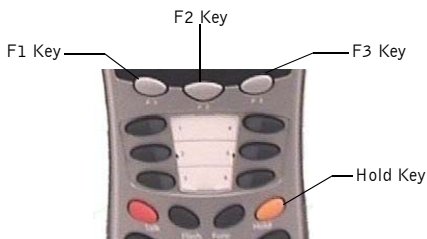
Each handset is equipped with a charging unit that operates via 9VDC Power Adapter. Two EKT lines connect the KSU to a Base Unit. If the handset ID is #1, this indicates that the handset is connected to Line #1. If the handset ID is #2, this indicates that the handset is connected with Line#2.



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 to the following programming function keys:



[F1] key: [DOWN] key.

[F2] key: [UP] key.

[F3] key: [OK] key.

[Hold] key: [EXIT] key.

The user can 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 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. Both Registration and De-Registration must be performed within the 20-second window in which the LED flashes in Fast mode.

NOTE:

The LED will flash fast for 20 seconds before returning to the slow flash.

Before Programming

Prior to programming the handsets it is recommended that you perform the *deregistration* procedures described in the next section.

System Registration and Deregistration

System Registration and Deregistration

De-Registration Programming

If a user wants to de-register all handsets or remove one handset only, they can perform de-registration of 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.

Deregistration Both Handsets at Once Using the Base Unit

1. Unplug Line 1 from the rear of the Base Unit.
2. Set Base Unit DIP switches as follows:
 - DIP SWITCH-1 to OFF (up)
 - DIP SWITCH-2 to OFF (up)
 - DIP SWITCH-3 to ON (down)
3. Plug Line 1 into the marked receptacle on the rear of the Base Unit. The LED on the base will flash [Fast].

After 30 seconds, the handsets will be deregistered.
4. Turn all of the DIP SWITCH on the base unit to OFF (up).

Note:

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

Deregistration Both Handsets Individually Using the Base Unit

Handset 1

1. Unplug Line 1 from the rear of the Base Unit.
2. Set Base Unit DIP switches as follows:
 - DIP SWITCH-1 to OFF (up)
 - DIP SWITCH-2 to OFF (up)
 - DIP SWITCH-3 to ON (down)
3. Plug Line 1 into the marked receptacle on the rear of the Base Unit. The LED on the base will flash [Fast].

After 30 seconds, handset 1 will be deregistered.
4. Turn all of the DIP SWITCH on the base unit to OFF (up).

Note:

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

Handset 2

1. Unplug Line 1 from the rear of the Base Unit.
2. Set Base Unit DIP switches as follows:
 - DIP SWITCH-1 to ON (down)
 - DIP SWITCH-2 to OFF (up)
 - DIP SWITCH-3 to OFF (up)
3. Plug Line 1 into the marked receptacle on the rear of the Base Unit. The LED on the base will flash [Fast].

After 30 seconds, handset 2 will be deregistered.
4. Turn all of the DIP SWITCH on the base unit to OFF (up).

Note:

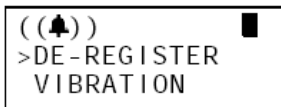
The LED on the base will flash [Normally] when the unit comes back to normal mode.

Deregistration Using the Handset

Note:

Only one handset can de-registered at a time.

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 5 seconds to enter [PROGRAM MODE] and then select the De-register Mode. The LCD will display:



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



4. Press the [F2] key to select the [YES] mode.



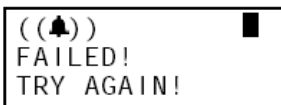
5. Press [F3] to confirm, the LCD will display:



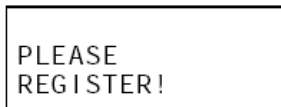
If the de-registration is successful, the LCD will display:



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



6. If de-registration fails, repeat steps 1 through 5.
7. After de-registration, the handset LCD will display:



8. Repeat steps 1 through 5 to register another handset.

Registration Programming

Registration programming allows a handset user to register the Handset to the Base Unit. Proceed with the following to register the handsets:

Register Handset 1 or 2

Note:

The following procedures are the same for Handset 1 or Handset 2. Each handset must be registered individually.

1. Disconnect Line 1 from the rear of the Base Unit.
2. Set the DIP switches on the Base Unit as follows:

DIP SWITCH-1 to OFF (up)
DIP SWITCH-2 to ON(down)
DIP SWITCH-3 to ON (down)

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

PLEASE
REGISTER!

3. Press and hold the [F1] key for 5 seconds to enter the System Programming mode. The LCD will display the following:

>LANGUAGE
REGISTRATION

4. Press [F2] to select the registration mode.

>REGISTRATION
DE-REGISTER

5. Press [F3] key to enter registration mode, the LCD will display the following:

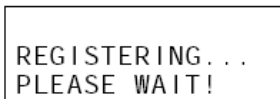
REGISTRATION
NO?

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

REGISTRATION
YES?

7. Reattach Line 1 to the marked slot in the rear of the Base Unit.

8. Press [F3] to begin the registration process. The LCD will display the following:



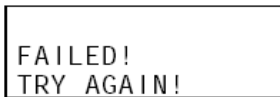
REGISTERING...
PLEASE WAIT!

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 the following:



REGISTERED
HANDSET #1

If the registration function fails, the LCD will display the following:



FAILED!
TRY AGAIN!

9. Repeat steps 1 through 8 if registration fails.
10. Repeat steps 1 through 8 to using Handset 2 to register Handset 2.
11. Change the DIP SWITCH on the base to normal mode:
 - DIP SWITCH-1 to OFF (up)
 - DIP SWITCH-2 to OFF (up)
 - DIP SWITCH - 3 to OFF (up)

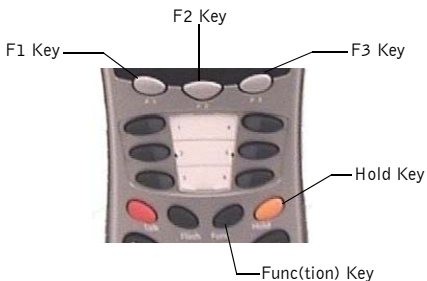
Note:

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

Programming the Handset

Programming the Handset

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 to the following function keys:



[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 Function key [PROGRAM] and then press F1/F2 [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.

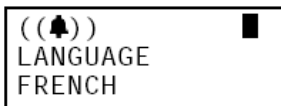
1. In standby mode, press and hold the [F1] key for 1 second. When entering the System Programming mode, the LCD will display:



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.*

Vibration Programming

There are 3 Vibration modes available:

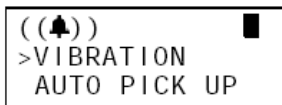
RING

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 and/or vibration for the user to refer to the ring type.
2. The mark [√] means that the 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

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:

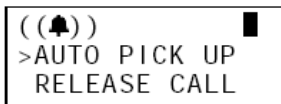
RECEIVER

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] 2 more times and the LCD will display:



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



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



Or

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



Reset Handset Programming

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

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



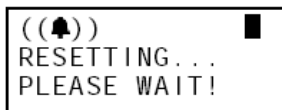
- Press [F3] to enter the mode. The LCD will display:



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



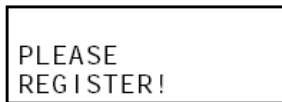
5. Press [F3] to confirm. The LCD will display: (e.g. [YES]):



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



If the handset was never registered or has been reset, the LCD will also display:



Extra Functions

Extra Functions

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 on the RF Link and Battery status.

Note:

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

Low Battery Power Status

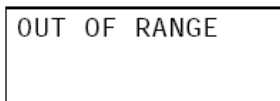
The handset will display a battery power status icon on the upper right corner of the LCD. If the battery power is too low to work, the unit will also display a [LOW BATTERY] character before the battery is out of power completely.



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

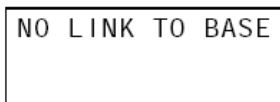
If the handset is in talk mode and the user is an extended distance away from the Base Unit, the handset will display [OUT OF RANGE] and generate the warning beep for 5 seconds:



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

No Link to Base Status

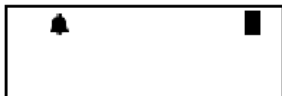
If the handset is at an extended distance away from the Base Unit or the power of the Base Unit is removed for 30 seconds, the handset will display [NO LINK TO BASE] to indicate the handset can't link with the Base Unit. Rows 2 and 3 of the LCD will not receive information from base and appear as blank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



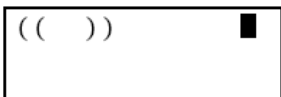
It is recommended that the user re-register the handset to verify the registration status.

Ring and Vibrator Status

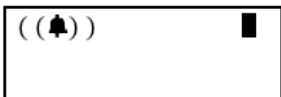
If a user sets [Ring mode] only, a [Ring] icon will appear on the LCD.



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

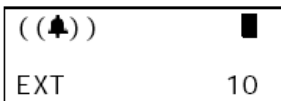


If a user selects [Ring and Vibrator mode], both icons will be displayed on the LCD.



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.

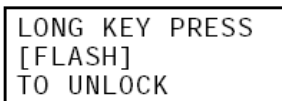
Note:

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

Key Lock Mode Status

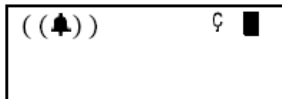
If a user presses and holds the [Flash] key for 2 seconds, the handset will be in key locked/unlock mode.

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:



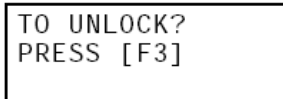
LONG KEY PRESS
[FLASH]
TO UNLOCK

After 3 seconds, The LCD will display:



((📞)) ☎ 🔋

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]

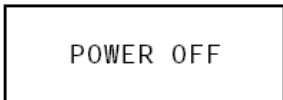
If a user presses the [F3] key within 3 seconds, the handset will be in key unlock mode.

Note:

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

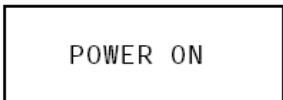
Power On/Off Mode Status

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 the following for 3 seconds:



POWER OFF

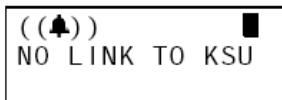
When the handset is in the power off mode, you can long keypress [Hold] for 2 seconds. The handset will be turned on. The LCD will display a 3-second display as follows:



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

System Limitations

Registration and De-Registration

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

Off Hook Voice Announcement (OHVA)

The system can't provide the OHVA function.

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.

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
Revision A