

# User Manual

## EP801 Digital Long Range Cordless Phone



EnGenius Customer Service  
Singapore: 65-62271088

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## Safety Instructions

**Caution:** *Your wireless telephone gives you freedom and flexibility to stay in touch while you move around. However, when using your phone equipment, safety instructions should be followed to avoid the risks of fire, electric shock, injury to person, and damage to property.*

### General Safety Instructions

1. When using your wireless phone, ensure your safety and the safety of others:
  - a. Always watch where you are walking and standing.
  - b. Don't let a phone call distract you from working safely.
2. In an emergency:
  - a. If an emergency occurs, dial the emergency phone number. Remember: if you are in an area where your phone does not have a clear signal from the base, it is highly probable that the call may not go through. Locate the nearest landline telephone or other communications device to call for help.
  - b. Emergency calls may not automatically provide emergency personnel with your name, phone number or location.
3. Notice to Hearing Aid Users: This phone system is compatible with inductively coupled hearing aids.
4. Notice to Cardiac Pacemaker Users: Although interference to the implanted cardiac pacemaker may occur when operating very closely, wireless telephones "do not seem to pose a significant problem for pacemaker wearers." However, until more is known, suggests that people with pacemakers may want to take precautions when using or carrying a wireless telephone to ensure that there is ample distance between the telephone and the pacemaker. Do not carry the handset in a breast pocket. If you have any reason to suspect that interference is taking place, turn off your handset immediately.

### Product Safety Instructions

1. Read and understand all instructions.
2. Follow all warnings and instructions including those marked on the product.

3. Changes or modifications to this product not expressly approved by the manufacturer will void the warranty and the CE authorization to operate the equipment. Use only manufacturer provided accessories.
4. Do not use the telephone near water. Never spill liquid of any kind on this product.
5. Unplug the product from the wall telephone jack and power outlet before cleaning. Do not use liquid or aerosol cleaners. Use damp cloth for cleaning.
6. Do not place this product on an unstable cart, stand, or table. The product may fall and cause personal injury or damage to the product or other property.
7. Power Outage: In the event of a power outage, your handset charger will not recharge the handset battery, and the base station will not allow you to make an outgoing call or take an incoming call. Both the charger and the base station require electricity for operation. You should have a telephone that does not require electricity available for use during power outage, or have a temporary backup power supply.
8. Slots or openings in the product's housing are provided for ventilation. These openings must not be blocked or covered. Placing the product on a bed, carpeting, or other similar surface may block these openings and should be avoided. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
9. Never push objects of any kind into this product through housing slots/openings as they may damage the product, touch dangerous voltage points or short out parts that could result in fire, electric shock, or injury.
10. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
11. Do not overload wall power outlets and extension cords as this may result in fire or electric shock.
12. To avoid electric shock or burn, do not disassemble this product. Send this product to an authorized service center when service or repair work is required. Call Customer Service for locations near you. Opening or removing covers may expose you to dangerous voltages, electrical currents or other risks. Incorrect reassembling of the product may cause electric shock when the product is subsequently used.
13. Avoid using the product during a storm. There may be a risk of electric shock from lightning.
14. Do not place the product where persons can step, trip, or fall on it.

15. Do not place conductive objects over or near the antenna.
16. Do not use the product to report a gas leak while in the vicinity of the leak.
17. Do not install the base station or the handset charger near microwave ovens, radios, TV sets, speakers, or other electrical equipment. These appliances may cause interference to the product or experience interference from the product.
18. Unplug the base station or the charger adaptor from the power outlet and refer to an authorized service center under the following conditions:
  - a. If liquid had been spilled into the product.
  - b. When the power supply cord or plug is damaged or frayed.
  - c. If the product has been exposed to rain or water.
  - d. If the product does not operate normally by following the operating instructions.
  - e. If the product has been dropped or housing has been damaged.
  - f. If the product shows a distinct change in performance.

#### **Battery Safety Instructions**

1. Use only manufacturer approved Li-ion rechargeable batteries and charger. Do not use other types of rechargeable batteries or non-rechargeable batteries. The batteries could short-circuit, and the battery enclosure may be damaged causing a hazardous condition.
2. Follow the charging instruction in this manual and instruction labels and markings in the handset and charger compartments.
3. Battery must be recycled or disposed of properly. Do not dispose the battery in a fire. The cells may explode.
4. Do not dispose of the battery in municipal waste. Check with local codes for disposal instructions.
5. Exercise care in handling the batteries in order not to short-circuit the battery with conductive materials such as rings, bracelets, keys, pocketknife, and coins. The battery or conductive material may overheat and cause burn or fire.
6. Do not expose batteries to rain or water.
7. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause injury to eyes or skin. The electrolyte may be toxic if swallowed.
8. During charging, the battery heats up. This is normal and is not dangerous.

## Regulatory Information

### EP801



This device complies with CE Rules. Operation is subject to the following two conditions:

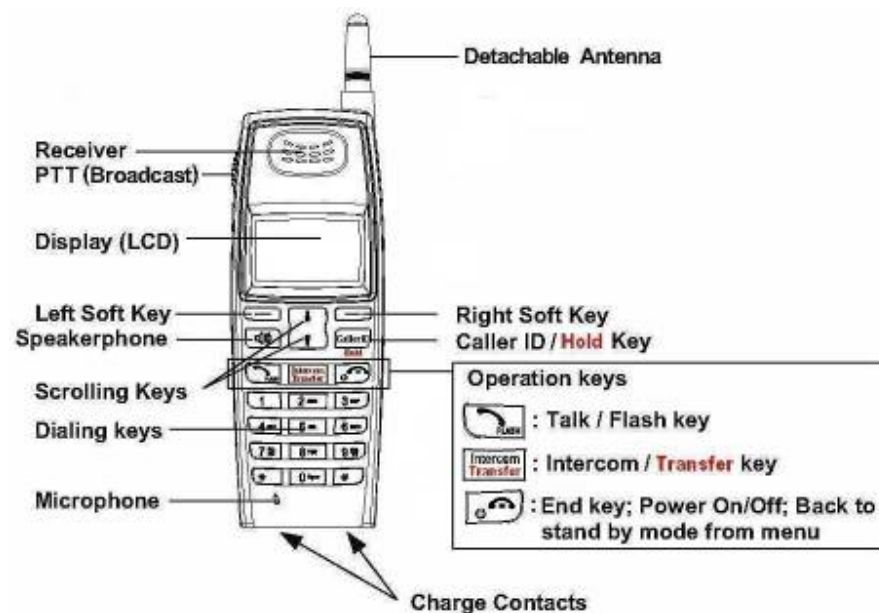
- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

1. This telephone system complies with rules of the EN 301 357-2 (RF) · EN 301 489 (EMC) · EN 60950 (Safety) and EN 50371 (RF safety).
2. The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all devices ring when your telephone number is called. In most, but not all, areas the sum of the REN's of all devices connected to one line should not exceed 5.0. To be certain of the number of devices you may connect to your phone line, you should contact your local telephone company for the maximum REN in your area.
3. If your telephone equipment causes problems to the telephone network, the telephone company may ask you to disconnect your phone system from the line until the problem has been corrected. Consult with your local phone company for your rights if this happens.
4. Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your telephone system. Consult with your local phone company for your rights if this happens.
5. This telephone system may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.
6. This telephone system has been tested and found to comply with the limits for rules of the EN 301 357-2 (RF) · EN 301 489 (EMC) · EN 60950 (Safety) and EN 50371 (RF safety). These limits are designed to provide reasonable protection against harmful interference in a general public installation. Operations of these devices may still encounter interference from/to nearby TV's, VCR's, radios, computers, or other electronic devices. To minimize or prevent such interference, the telephone system should not be placed or operated near other electronic devices.
7. However, there is no guarantee that interference will not occur in a particular installation. If this telephone system does cause interference to other electronic devices, which can be determined by turning the system off and on, the user is encouraged to try to correct the interference by one or several of the following measures:
  - a. We recommend at least 20 feet between the system and other electronic devices.
  - b. Connect the base station to a power outlet on a circuit separate from that used by the device experiencing interference. Consult the dealer or an experienced electronic technician for help.

## Equipment Checklist

1. In a Base + Handset package, please find the following components:
  - a. Base Station x 1
  - b. Base Antenna x 1
  - c. Base AC/DC Adaptor x 1
  - d. Handset x 1
  - e. Handset Antenna x 2 (Short x 1, Long x1)
  - f. 1100mA Li-ion Battery Pack x 1
  - g. Telephone Cord x 1
  - h. CD (User's Manual), Quick Guide
2. In a Handset package, please find the following components:
  - a. Handset x 1
  - b. Handset Antenna x 2 (Short x 1, Long x1)
  - c. 1100mA Li-ion Battery Pack x 1
  - d. Desktop Charger x 1
  - e. Charger AC/DC Adaptor x 1
  - f. Quick Guide
3. Optional Accessory
  - a. Outdoor Antenna Kit (including antenna and cable)
  - b. Lightning Protection Kit
  - c. Spare Battery x 1700mA Li-ion
  - d. High-gain handset antenna
  - e. Headset
  - f. Antenna Splitter

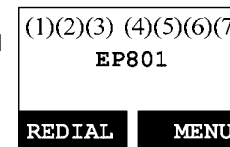
## Handset Illustration







## Handset Features








### Basic Handset Features


1. 4-line LCD (Liquid Crystal Display)
  - a. The LCD display has LED (Light Emitting Diode) for backlighting.
  - b. The 1<sup>st</sup> line of LCD consists of icons.
  - c. Icons explanation from left to right
    - (1) **RSSI** (Receive Signal Strength Indicator)  
 During a call, the number of bars is proportional to the radio signal strength received.
    - (2) **Link mode**  
 (2.1) **Call in-progress** (ON/OFF-Hook)  
 Indicates which the phone line of Base is active.
    - (2.2) **Intercom in-progress**  
 Indicates if Intercom mode is active  
 Indicate the Handset ID which is making intercom with.
    - (3) **Speech mode**  
 (3.1) **Speaker Indicator**  
 Indicate if the speaker is active  
 (3.2) **Headset mode**
    - (4) **Sound and Indication**  
 (4.1) **Enable ringer**  
 (4.2) **Disable ringer**  
 (4.3) **Ringer and vibrate mode**  
 (4.4) **Vibrate mode**  
 (4.5) **Message waiting indicator**
    - (5) **Disable PA**  
 Indicate if the speaker is disable
    - (6) **Two-Digit Address Index**  
 Displays the 2-digit Handset ID.
    - (7) **Battery Strength**  
 Number of bars is proportional to the amount of battery time remaining.
  - d. The 2<sup>nd</sup> and 3<sup>rd</sup> lines of the LCD, maximum 16 characters each, display status, message, menu selections, or user-editable alphanumerical characters.
  - e. The last line displays the left and right soft keys.



- b. Distinctive alert sounds indicating various events:
  - (1) Single beep: successful key entry.
  - (2) Double beep: indicates power on/off.
  - (3) Triple beep: failed operation.
  - (4) Periodic 1-Long-2-Short beep (every 1 minute): low battery warning 、 out of range 、 call on hold



Re: No any beep for invalid key entry
- 3. TALK/FLASH ()
  - a. Places or answers a telephone or intercom call
  - b. Sends a Flash signal to phone line to retrieve a dial tone after the call ends, or to perform the call waiting feature provided by local phone companies during a call.
- 4. SPEAKERPHONE ()
  - a. Press the key to enable/disable the speakerphone during incoming, outgoing or intercom call.
- 5. 2-WAY INTERCOM / TRANSFER ()
  - a. Places an intercom call to another handset, a group handset (group paging) or all registered handsets.
  - b. Intercom calls are digital, full duplex, and are conducted without the assistance from the base.
- 6. BROADCAST ()
  - a. Half duplex broadcasting to handsets for immediate announcement
  - b. Half duplex broadcasting to base stations

Re : Press the  key on the side of handset to activate the broadcast function.
- 7. Left/Right Soft Keys ()
  - a. Make menu selection.
- 8. Up() /Down() Scrolling Keys
  - a. Scroll through records and menu selections.
  - b. Adjust receiver voice volume when in the Talk mode.
  - c. Press  to adjust ringer volume when in the Standby mode.
  - d. Press  to enter phonebook when in the Standby mode.
- 9. END; On/Off Key ()
  - a. Ends a call.
  - b. Leaves current menu operation, up one level.

- c. Press for 3 seconds to off the power
- 10. CALLER ID Key ()
  - a. Review caller ID list.
  - b. Including received and missed caller ID.

### Additional Handset Features

- 1. Multiple handsets registration
  - a. Up to 9 handsets can be registered to a base station
  - b. ID 11-19: individual Handset IDs.
  - c. ID 91-99: Group IDs. Handsets can “subscribe” from the handset menu to group(s) and be paged when a landline caller or an intercom caller enters a Group ID.
- 2. Ringer Vibrator
  - a. For incoming call ringing & intercom ringing.
  - b. Six-level ringer volume selections (Off/Low/Medium/High/Vibrate/Vibrate & High)
  - b. Eight ringer type selections
- 3. Caller ID
  - a. Displays incoming call phone number and name on the LCD (needs Caller ID service from local telephone company)
- 4. Call waiting with caller ID
  - a. Displays 2<sup>nd</sup> incoming call information on the same phone line when 1<sup>st</sup> call is in progress (needs Call Waiting with Caller ID service from local telephone company)
- 5. Name tagging with caller ID
  - a. Match the caller ID with the phone book entries; once matched, the LCD screen will display the name or nickname instead of pure caller ID info (needs Call Waiting with Caller ID service from local telephone company).
- 6. DND (Do Not Disturb, i.e., Silent Ring)
- 7. Call Logs
  - a. Redial: Stores 10 phone numbers (up to 26 digits each) dialed most recently. Can perform last-number redial on all 10 numbers.
  - b. Received & New Call Log: Total 50 entries (16-digit phone number,

- 16-character names, and Date/Time stamp), needs Caller ID service from local telephone company.
  - c. Phone numbers and names can be saved into phonebook while in display.
8. Call barring
- a. Block the users from dialing the long distance calls or international calls.
  - b. Up to 5 digits of each call barring setting; up to 5 entries allowed.
  - c. If you need to dial a specific number to retrieve the dial tone, you need to key in that number while setting the call barring.
- [Note] You need to key in the accurate user ID and password to perform this feature. The default password is "0000".
9. Any Key Answer (except  and **SILENT** Soft Key)
10. Key-guard
- a. When the keyguard is selected, all keys will be locked. Press **UNLOCK** (Left) soft key followed by "\*" to release it.
11. Dialing Prefix
- a. Up to 14 digits, including pause(s), one access code can be pre-programmed to be added automatically in front of the dialed number when dialing from call logs, phonebook, and dial-and-send dialing.
12. Call Hold
- a. Places call on hold
13. Mute
- a. Press **MUTE** (Left) soft key during talk, the handset microphone will be muted. Press **UNMUTE** (Left) soft key to release it.
14. Phonebook
- a. 50 entries, each stores a phone number or handset ID (up to 26 digits) and name (up to 16 characters)
  - b. Alphabetically sorted display and search by letter.
  - c. Dial from display.
  - d. During the stand-by mode, you can enter the phone book by pressing  scrolling key.
15. Key tone
- a. Four-level key tone volume selections (Off/Low/Medium/High).

- b. Four key tone type selections.
16. Call Timers
- a. Display call time duration for current call during and immediately after the call.
17. Programmable Feature Call
- a. Allow user to pre-program the most frequently used Feature code into EP801 which is adjunct to the PBX system.
  - b. Up to 10 entries can be saved.
  - c. Once the feature code being programmed, you can quick perform those functions during the call by pressing **OPTION** soft key.
18. PA On/Off
- a. Enable or disable the broadcast function.
  - b. When PA is Off, the handset can't receive broadcast from base or other registered handsets; But it can broadcast to base or other registered handsets.
19. Menu Display
- a. To avoid mis-setup in the "Call Settings" (**MENU-4**), "Phone Settings" (**MENU-5**), "Base Settings" (**MENU-6**) and Multi-base Setting (**MENU-7-3**), these settings can be hidden.
  - b. Password is required before enter Menu Display (**MENU-8**), the default handset password is "0000".
  - c. When enable the settings, these setting will not displayed any longer, unless disable them by entering Menu Display again.
20. Group Setting
- a. Allow handset to subscribe to one or several groups. Re: Up to 9 groups can be subscribed.
21. Custom Name
- a. Allow changing the "EP801" screen to the desired wording or info, such as the user's name. Re: Up to 32 characters can be entered.
22. Change Pwd
- a. Allow changing the handset password which requires to enter in Call Barring (**MENU-4-3**) and Menu Display (**MENU-8**). Re: Default is "0000".
23. Change PIN



- a. Allow changing the Base PIN which requires to enter in Base Settings (MENU-6).  
Re: Default is "0000".
24. DTMF Duration
- a. From MENU-6-1 to select variable duration of DTMF tone.
  - b. Default is 100ms.
  - c. When entering the base setting, PIN is required. Default is "0000".  
Re: Better to check with your phone company first before changing it.
25. Programmable Flash key timing
- a. From MENU-6-2 to select flash key timing
  - b. 9-level (100 ms - 900 ms) timing selections, default= 600 ms.
  - c. The default value (600 ms) works in most areas. Changing this setting may cause Flash key not working. Change only when you are certain of the new value would work.
  - d. When entering the base setting, PIN is required. Default is "0000".
26. Assign next handset ID for new handset
- a. Using registered handset from MENU-6-3 to assign a next handset ID to a new handset.
  - b. If not assign next handset ID, the system will automatically assign a handset ID to a new handset..
  - c. When entering the base setting, PIN is required. Default is "0000".
27. Clear Handset
- a. Using registered handset from MENU-6-4 to remove the other registered handset, in case the other registered handset is defected.
  - b. Once clear the other registered handset, the user is able to register a new handset for instead.
  - c. When entering the base setting, PIN is required. Default is "0000".
28. Change PIN
- Allow changing the base PIN which requires to enter the "Base Settings" (MENU-6-5).
- a. Using registered handset to change PIN from MENU-6-5.
  - b. Default PIN is "0000".
  - c. When entering the base setting, PIN is required. Default is "0000".
29. Auto Hang Up feature
- a. Using registered handset from MENU-6-6 to turn on/off the Auto hand up feature.
  - b. If turning on the feature, the handset will automatically hang up the

- call when the far-end hangs up the call.
- c. When entering the base setting, PIN is required. Default is "0000".

### 30. Area Code

The area code function allows calls within local and country area codes to be dialed without the prefix.



- a. Enter MENU-4-6-1 to set the "Local" area code.
- b. Enter MENU-4-6-2 to set the "Country" area code.  
Re: Up to 3 digits can be entered.

### 31. Multiple Base setting

- a. Up to 4 bases can be set in one system.  
Re: For best performance, maintain a distance of at least 5 meters (about 15 feet) between any two base stations.

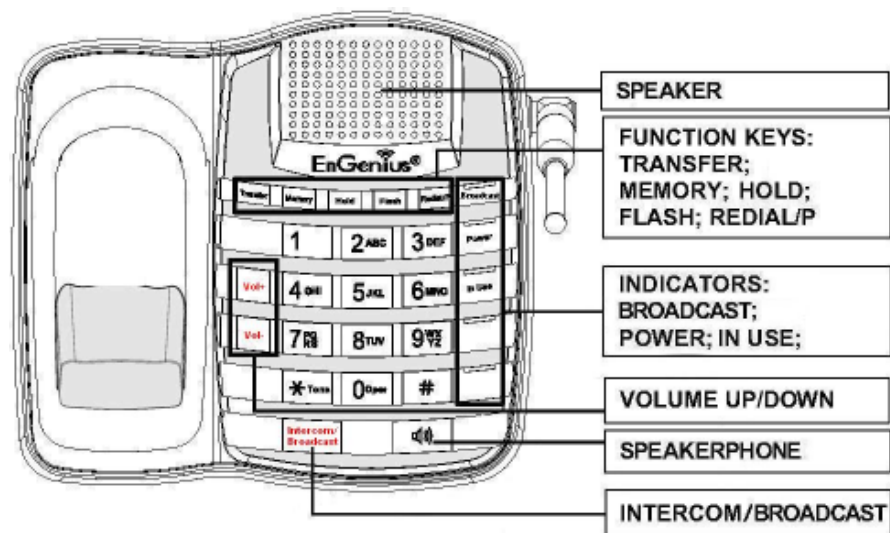
### 32. Set Time

The set time function allows user to set date/time to support the DTMF caller ID (DTMF caller ID doesn't attach date/time when receiving from PSTN, using this setting, user is able to review the date/time when the caller ID received).

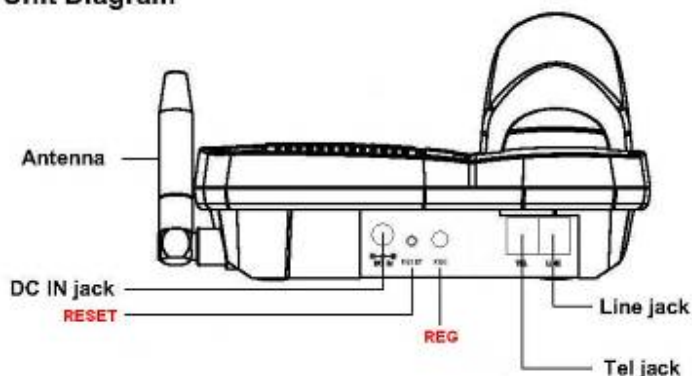
- a. Enter MENU-6 to set Base Settings.
- b. Press  or  scrolling key to select desired base.
- c. Enter Base PIN (Default is "0000").
- d. Enter "7" to enter Set Time.
- e. Enter 4 digits for MM/DD(Month/Day), then enter 4 digits for hr:mm (Hour : Minute)
- f. Press SAVE (left soft key) to finish the setting.



## Base Illustration



## Base Unit Diagram



## Base Features

### Basic Base Station Features

1. Antenna
  - a. The antenna port has a **normal thread connector**; to remove antenna or cable, turn counterclockwise; to install, turn clockwise. Improper installation may damage the connector.
  - b. When using an outdoor antenna, locate the antenna (not the base station itself) as high as possible for a clear transmission path.
2. LED
  - a. Power: it indicates base station has power.
  - b. In-Use: it indicates an active telephone line.
  - c. Broadcast: it indicates "Broadcast" taking place.
3. RESET Button
  - a. Restores base station to factory settings
  - b. Reset button is indented to prevent accidental system reset.
  - c. All handsets (including administrator) and additional base(s) need to be re-registered after a base station reset.
4. Registration Button (REG)
 

Enters registration mode along with handset, assigns handset ID (11-19).
5. Line Jack
 

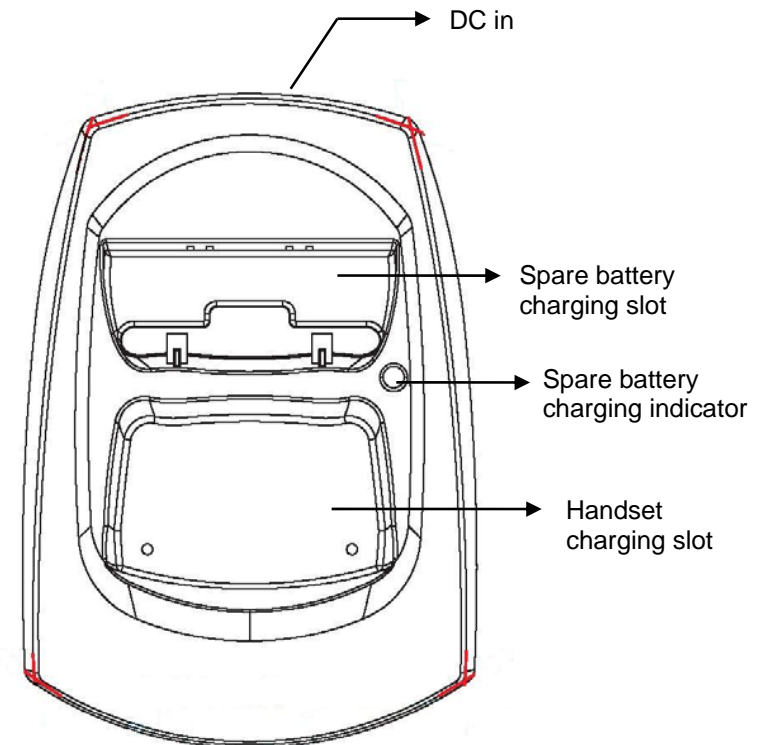
Standard RJ-11C/CA-11A connector to plug in the telephone line
6. Telephone Jack
 

Another RJ-11C to plug in the optional answering machine
7. Dialing Keys
  - a. Enter the phone no after pressing the Speakerphone key.
  - b. Enter the handset ID or Group ID when making the intercom call or broadcast.
  - c. Enter the phone no when storing the base speed dial directory.
8. Function Keys
  - a. TRANSFER (**TRANSFER**): during talk, press the key to transfer the call to a registered handset.
  - b. MEMORY (**MEMORY**): store phone number into speed dial memory of base unit. Up to 20 entries. Or retrieve a phone number from the

speed dial memory during the talking.

- c. HOLD (**HOLD**): press the key to put the call on hold.
  - d. FLASH (**FLASH**): press the key to send a Flash signal to phone line to retrieve a dial tone after the call ends, or to perform the call waiting feature provided by local phone companies during a call.
  - e. REDIAL/P (**REDIAL/P**): press the key to retrieve the last dialed number. Or store a pause time (1 second) while storing the speed dial memory.
9. VOLUME keys (**VOL+** and **VOL-**)
- a. Increase or decrease the ringer volume during standby mode.
  - b. Increase or decrease the voice volume during talk mode.
10. SPEAKERPHONE key (**[Speakerphone Icon]**)
- a. Press the key to get the dial tone, followed by phone number to make outgoing call.
  - b. Press the key again to hang up the call.
  - c. When enable the speakerphone, the backlight of the key will be turned on too.
11. INTERCOM/BROADCAST Key (**INTERCOM BROADCAST**)
- a. Enter handset ID then press the key to enable the 2-way intercom feature.
  - b. Enter handset ID then press and hold the key for over one second to enable the broadcast feature.
- Re: Press the INTERCOM/BROADCAST Key without entering handset ID first, all registered handset will be enabled.
12. DC In: to plug in the power adaptor

## Charger Illustration



## Charger Features

1. DC In  
Connects to Charger AC Adaptor.
2. Handset Charging Slot
  - a. Charge handset battery when handset is placed in cradle.
  - b. Refer to the handset LCD for charging status
    - (1) Charging: battery status bar is running and the LCD screen showed: Charging
    - (2) Fully Charged: battery status bar stands still and the LCD screen would display "Charge Complete"
    - (3) Charge Fail: Should there be any error occurred during charging mode, the LCD screen would display "Charge Fail"
3. Spare Battery Charging Slot
  - a. Charge spare battery when battery is placed in slot.
  - b. LED as the spare battery charging indicator
    - (1) Slot is empty and the power is on: LED is off
    - (2) Battery is in charging: LED is Orange light
    - (3) Fully Charged: LED is off
4. It is impossible to overcharge the battery using this charger.
5. The adaptor for charging station can be used as travel charger as well. However, you can't turn off the power while you charge the handset via travel charger. A warning message "Unplug Travel Charger then OFF the power" will be shown on the LCD.

### Notes:

1. Fully charge battery packs before first use.
2. Both handset and spare batteries can be charged at the same time.
3. Handset will be "power on" automatically when placing on the charging slot.
4. However, if you run drain the battery, it will take around one minute for handset to auto power on.

## Getting Started

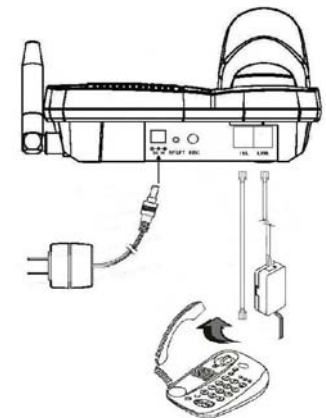
### Base Station Installation

There are three possible base station setups:

- Base station alone
- Base station plus telephone answering device
- Base station plus standard telephone

For best performance, maintain at least a distance of 1 meter (about 3 feet) between the base station and other electronic devices (e.g., TV, computer, stereo, fax machine, answer machine, cordless phone, etc.)

1. Install base station antenna.  
The base station's antenna port has a **normal-thread connector**; to install antenna or cable, turn clockwise; to remove, turn counter-clockwise. Improper installation may damage the connector.
2. Plug the transformer end of the base station AC/DC adaptor into a standard AC electrical power outlet, plug the other end into the "DC In" jack on the back of the base station.
  - a. The base adaptor's DC plug is larger in dimension than the charger's DC plug. The charger adaptor's DC plug will not fit into the base's DC In jack.
  - b. The base station's power supply (DC Adaptor) and telephone line should be plugged into a surge protector with phone line protection.
3. Plug phone cord into the "LINE" Jack
4. A standard telephone or answering machine can be plugged into the adjacent receptacle on the bottom of the base station marked TEL



## Handset and Charger Installation

1. Plug the transformer end of the Charger AC/DC adaptor into a standard AC electric power outlet, plug the other end into the “DC In” jack on the back of the Charger.
2. Install battery pack onto the handset.
3. Install handset antenna.
4. Place handset onto the charger front slot.
5. Fully charge the battery for three hours before use.
6. The phone system is now ready to perform basic functions such as making and receiving phone calls and intercom calls. No base station or handset programming is needed for basic operations.

### Note:

1. Handset(s) packaged along with a Base Station are pre-registered at the factory. If you have a new handset, you will need to register the handset with the base station in order to be recognized as a member handset by the base(s) and by other handsets. See Handset Registration.
2. Fully charge battery packs before the first usage.

## Basic Operations

### Operation Modes

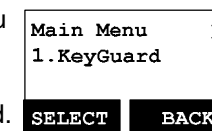
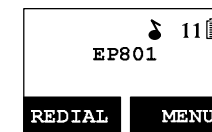
Both the base station and handset have levels of operation at which time only certain procedures of functions can be performed.

#### A. Base Operation Modes

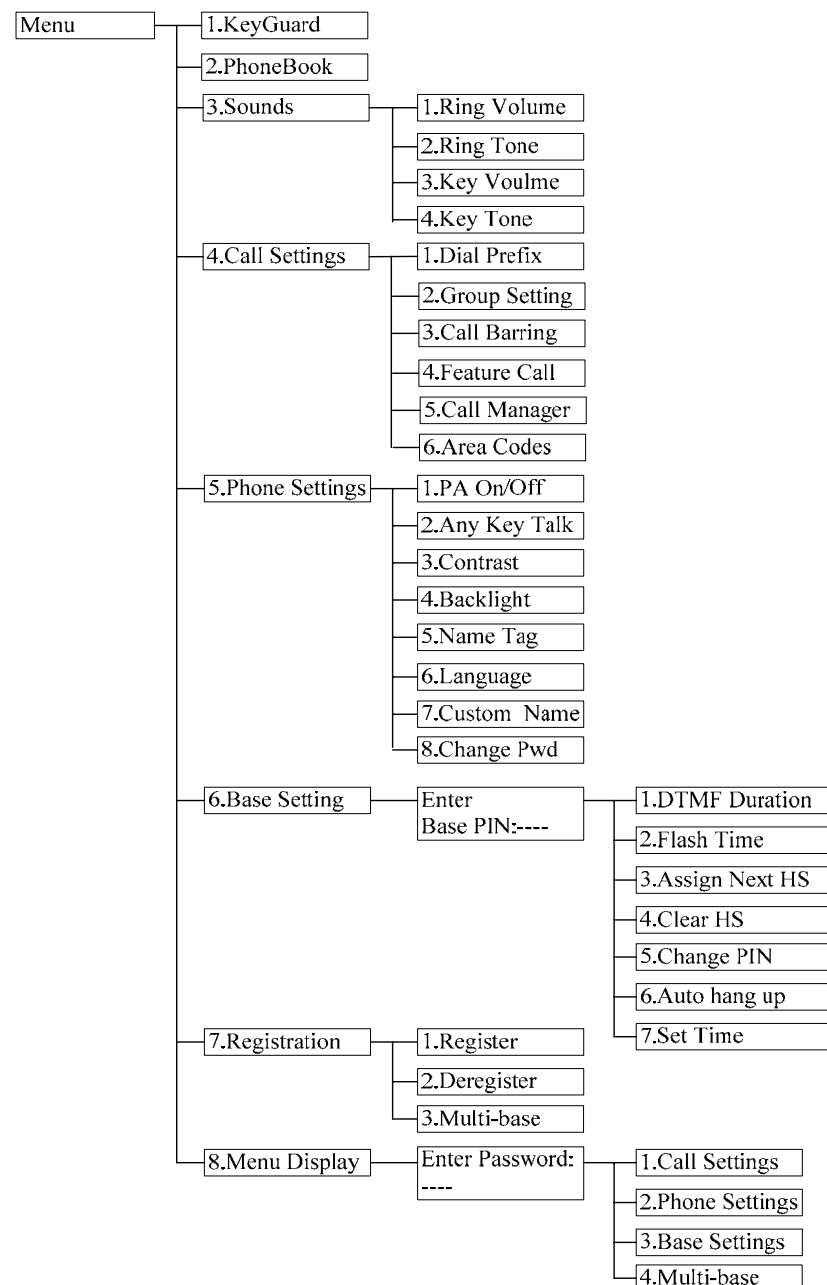
1. **IDLE mode**- this is the default mode. The speakerphone, intercom, broadcast, and volume keys are active in IDLE mode.
2. **TALK mode**- the base operates in this mode during phone call, intercom, and broadcast operation. The dialing, “Transfer”, “Memory”, “Hold”, “Flash” and “Redial/P” keys are operated in this mode. The “In Use”, “Intercom”, and “Broadcast” LED will light up respectively.
3. **REGISTRATION mode**- the base enters this mode by pressing the REG button for three seconds. There are no active base unit keys once this mode has been entered. Speakerphone and Intercom LEDs will be lighted up in Registration mode, also a prompt ringing will be emitted.

#### B. Handset Operation Modes

1. **Standby mode**- this is the default mode.
  - a. If there is no on-going activity, the handset automatically goes into SLEEP/IDLE mode to save battery power.
  - b. The handset can be turned off completely by holding down the END key for 3 seconds.
  - c. The idle screen display (custom name) can be edited.
  - d. The 2-digit number represents the handset ID
2. **Menu mode**
  - a. Press the Right soft function key to activate Menu mode.
  - b. In Menu mode, the handset settings and information contained in memory can be changed.
  - c. The functions available through the Menu selection are covered in greater detail from page 38.
  - d. The Menu structure display as below:




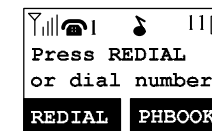
### 3. Menu Tree




### Making a Telephone Call

#### A. From Handset

1. Press , wait for dial tone, and then enter phone number.






2. Alternatively, you can enter phone number first then press  key.

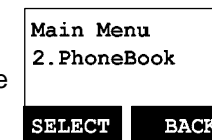
When using this method, you can use the **CLEAR** (Left) and **DELETE** (Right) soft keys to edit the number entered. "Delete" erases the last digit entered. "Clear" erases the entire line but remains in the dialing mode.




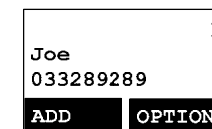
3. **Speed dial** by access the entries in the phone book (Menu→2)

a. Press  or  scrolling key to enter the phone book

b. Press  to dial out the number




4. To abort dialing, press  key.




#### Notes:


1. If the line is occupied, the LCD shows "No Line Available" and handset returns to standby mode.
2. If a link cannot be established, the LCD will show "No Base" after a 12-second time out.
3. A call duration timer will start displaying the length of the call after link is established.

#### B. From Base

1. Press , wait for dial tone, and then enter phone number.

2. Speed dial by access the entries in the base memory.



Press , then press **MEMORY** and the location of speed dial "N" (N : 00~19)

3. Press  again to hang up the call.

## Making an 2-Way/ Intercom Call

The EP801 Cordless Phone System offers private, Intercom/ 2-way radio calls independence of base station. Intercom/ 2-way communication can be placed from or to base stations and handsets.

### A. Handset to Handset Calls




1. Press  key followed by a two-digit handset ID or Group ID.
2. Press  key to end the call.

Enter Ext #: ##	
BASE	PHBOOK



#### Notes:

1. Intercom calls can be made regardless if the Base Station is present.
2. If a Group ID is entered, the first handset (belonging to that group) that answers will establish a link with the caller. See Handset Group Subscription.
3. If a link cannot be established, the LCD shows "No Connection" after a 12-second time out.

### B. Intercom/2-Way from Base to Handset

1. Press  key on the base station to intercom all registered handsets. The first handset to answer will establish a voice link with the base.
2. Or press a two-digit handset ID/group ID followed by  key to intercom the designated handset/ group.
3. The INTERCOM LED will flash until a handset responds.
4. The base unit will page for 30 seconds, then terminate the page if no handset responds.
5. Before a handset answers, the INTERCOM can only be cancelled from the base by pressing  again. However, once a handset answers, the base and the answering handset both can end the call.



### C. Intercom/2-Way from Handset to Base

1. Press  key followed by the left softkey --BASE
2. The base will ring, until press the  key to connect the intercom call with the handset.



Enter Ext #: ##	
BASE	PHBOOK

## Making a Broadcast


### A. Handset to Handset Calls

1. Broadcasting all handsets
  - a. Press and hold  key (left side of handset) from one handset.
  - b. Hear bi-bi-beep while the initiating handset broadcast to all handsets within communication coverage.
  - c. Start to speak the message to be broadcasted once you hear the "beep" sound; the speakerphone of destination handsets will be opened up.
  - d. Release  key to end the broadcasting.


PA Paging To All..
-----------------------

2. Broadcasting a group of handsets
  - a. Enter the Group ID and then press and hold  key (left side of handset).
  - b. Hear bi-bi-beep while the initiating handset broadcast all handsets within communication coverage.
  - c. Start to speak the message to be broadcasted once you hear the "beep" sound; the speakerphone of destination handsets will be opened up.
  - d. Release  key to end the broadcasting.



PA Paging To Ext #91..
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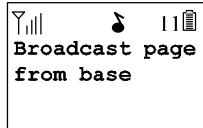
3. Broadcasting an individual handset
  - a. Enter the Handset ID and then press and hold  key (left side of handset).
  - b. Hear bi-bi-beep while the initiating handset broadcast all handsets within communication coverage.
  - c. Start to speak the message to be broadcasted once you hear the "beep" sound; the speakerphone of destination handsets will be


PA Paging To Ext #12..
---------------------------

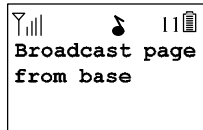
- opened up.
- d. Release  key to end the broadcasting.


### B. Broadcasting from Base to Handset



- Broadcast to all handsets
  - Press  key on the base station to intercom all registered handsets.
  - Hear bi-bi-beep while the initiating handset broadcast all handsets
  - The BROADCAST LED will light up
  - Press the  key again and return to end the broadcasting.

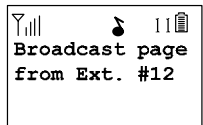


- Broadcasting a group of handsets
  - Enter the Group ID and then press  key.
  - Hear bi-bi-beep while the initiating handset broadcast all handsets within communication coverage.




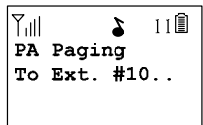
- Start to speak the message to be broadcasted once you hear the “beep” sound; the speakerphone of destination handsets will be opened up.
- Press  key to end the broadcasting.


- Broadcasting an individual handset
  - Enter the Handset ID and then press  key.
  - Hear bi-bi-beep while the initiating handset broadcast all handsets within communication coverage
  - Start to speak the message to be broadcasted once you hear the “beep” sound; the speakerphone of destination handsets will be opened up
  - Press  key to end the broadcasting.



### C. Broadcasting from Handset to Base





- Broadcast to the base station
  - Enter the Base ID (10) and then press  key
  - Hear bi-bi-beep while the initiating handset broadcast the base stations.
  - Start to speak the message to be broadcasted once you hear the “beep” sound; the speakerphone

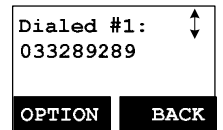
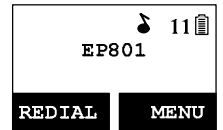


- of the base will be opened up
- d. Press the  key to end the broadcasting.



### Redial

#### A. From Handset

- Press **REDIAL** (Left) softkey.
- The LCD shows the last phone number dialed. To dial this number, press  key.
- Use  or  Key to scroll through the last 10 phone numbers dialed. Select and press  key. [Note] Intercom numbers (Handset ID) are not stored in the last 10 numbers dialed log.




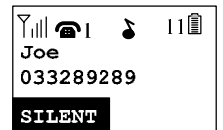
#### B. From Base

- Press  key, after hearing the dial tone, followed by the  key, the last dialed number will be dialed.

### Receiving a Telephone Call

#### A. Handset

- When an incoming call arrives, the LCD will show the caller ID message, and the ringer will ring or vibrate unless the ringer has been turned off.
- If the handset is on the charger cradle (ringer will be temporarily switched to “Ring” if it has been set to “Vibrate”), lift the handset and press  key to start conversation.



Re: You can turn on the “Any Key Talk” from **MENU-5-2**


#### Notes:

- You can press **SILENT** (Left) soft key if you choose to ignore the call. Unlike turning off the ringer (from the handset menu),




- the **SILENT** key operation is valid only for the current call.
- If Caller ID service is available, the LCD will display the incoming call information. If the LCD shows "Private" or "Unknown", the caller's information may have been blocked by the caller or the originating phone company.

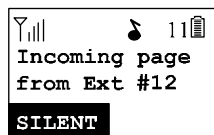
### B. Base


- When an incoming call arrives, the ringer will ring, the speaker LED will flash.
- Press the  to answer the call.

### Receiving an Intercom Call

#### A. Intercom Call from Handset

- When an intercom call arrives (called from other handsets, ex. Handset 12), the ringer will ring or vibrate unless the ringer has been turned off. Press  to answer the intercom call.




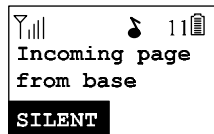
- If the handset is on the charger cradle (ringer will be temporarily switched to "Ring" if it has been set to "Vibrate"), lift the handset and start conversation.
- If the handset is not on the cradle, press any key (except  and the **SILENT** soft key) to answer.

#### Notes:

- The LCD displays the caller's Handset ID.
- You can press the **SILENT** (Left) soft key if you choose to ignore the call. Unlike turning off the ringer the **SILENT** key operation is valid only for the current call.


#### B. Intercom Call from Base

- When an intercom call arrives (called from Base), the ringer will ring or vibrate unless the ringer has been turned off. Press  to answer the intercom call.
- If the handset is on the charger cradle (ringer will be temporarily switched to "Ring" if it has been set to "Vibrate"), lift the handset and start conversation.





### Ending a Call



#### A. from Handset

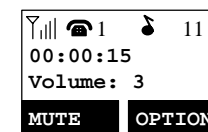
To end a telephone or intercom call, press  key, or place handset into charger cradle.

#### B. from Base



To end a telephone call, press  key. To end an intercom call, press  key.

### Adjusting Handset Receiver (Earpiece) Voice Volume

- Voice volume can only be adjusted during a call.
- There are 6 levels of volume selections. Default = 3. Use  or  key to adjust
- The new setting remains effective for all future calls until changed.





### Adjusting Handset Speakerphone Voice Volume

- Voice volume can only be adjusted during a call.
- There are 6 levels of volume selections. Default = 3. Use  or  key to adjust
- The new setting remains effective for all future calls until changed.

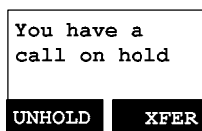


### Adjusting Base Speakerphone Voice Volume

- Voice volume can only be adjusted during a call.
- There are 6 levels of volume selections. Default = 3. Use  or  key to adjust
- The new setting remains effective for all future calls until changed.

## Placing a Call On Hold

1. When a call is in progress, it can be put on hold by pressing the **CALLER ID** **HOLD** key.
2. To return to the conversation, press **UNHOLD** (Left) soft key

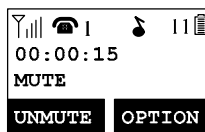


### Notes:

1. The call being placed on hold can be “un-hold” by the handset that puts it on hold. But if the handset press **CALLER ID** key to go back standby, then other handsets can press **CALLER ID** or **CALLER ID** to pick this held call (If press **CALLER ID** on base, it can also pick up this held call).
2. Handset LCD displays a call is being on hold. An alert tone (double beep) every 30 seconds will remind the handset that a call is being on hold.
3. If the operation (e.g., call transfer) after putting a call on-hold fails, the held call may be dropped.

## Mute

1. After a link is established, you can press **MUTE** (Left) soft key to mute the handset microphone.
2. When mute is active, the other end will not hear your voice, but still can speak to you.
3. To leave the mute state, press **UNMUTE** (Left) soft key. Mute is effective only for the current call.



## Do Not Disturb (Silent Ring)

1. Enter the key sequence MENU-3-1, then select “Off”. Press **SELECT** (Left) to confirm your choice. This will turn off the ringer until it is turn on again from the menu.  
Re: When setting the ringer “Off”, the standby screen

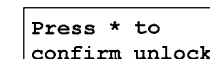
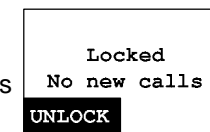


will show “Ringer off”.

2. For temporary silencing the ringer when an incoming call arrives, press **SILENT** (Left) soft key.

## Key Guard

1. To prevent accidental dialing, you can press **MENU** (Right) soft key, then press “1” to select KeyGuard option. The handset keypad is locked. No key entry is accepted.
2. To unlock the keypad, press **UNLOCK** (Left) soft key, then, within 2 seconds, press the digit “\*” to unlock.
3. Key Guard is in effect until unlocked.



## Battery Recharge and Replacement



1. Charge the battery when one or several of the following happen:
  - a. Phone beeps twice every two seconds.
  - b. Battery icon is empty.
  - c. Phone does not respond when a key is pressed.
  - d. LCD and backlighting become dim.
  - e. Talk range shortfall is experienced.
2. You can replace the handset battery after placing the call-in-progress on hold.
3. Battery talk time and standby time vary depending on the talk/standby pattern and the operating distance. Putting the handset back to charger cradle as often as possible is recommended for best performance. **Use only manufacturer provided battery and charger!**

## Advanced Operations

### Handset Registration

1. If your handset(s) is purchased as part of a system, it has been pre-registered with the base station at the factory.
2. If Handset ID as "00," that means it is a new handset or the ID has been erased. You need to register the handset with the base station.

#### 3. Registration:

- a. Press **MENU**-7 to enter the registration mode
- b. Press and hold the base's Registration (REG) button for 2 seconds until the  and  LEDs lighting up and flashing, also the base will emit ringing to remind you the base is in the registration mode..



- c. Press handset key "1", this completes the registration process. The base station will assign a handset ID between 12 and 19. The assigned ID will be displayed on the handset LCD, indicating successful registration.





- d. Repeat above steps for all additional handsets.

#### 4. De-registration:

- a. You can de-register the handset you're using from the base. De-registration will reset the Handset ID to 00, erase the system security code, and free up the old ID for future registration.



- b. After deregistration, the handset will not be able to use the base to make or receive phone calls, nor can it intercom other handsets.

- c. Press **MENU**-7 to enter the registration mode
- d. Press and hold the base's REG button for 2 seconds until the  and  LEDs lighting up and flashing.



- e. Press the handset number key "2", this completes the de-registration process. Upon successful de-registration, the handset will show "Please

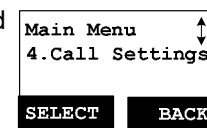
register".

#### Notes:

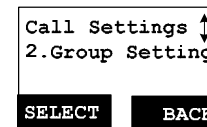
1. The base has a 30 second registration timeout starting from pressing the REG button. The handset has a 12 second registration timeout starting from the registration or de-registration option has been selected. The base and handset will automatically exit registration mode after timeout.
2. Repeat registration or de-registration process if unsuccessful.

### Handset Group Subscription

1. Up to nine handset groups (91-99) can be defined and handsets can decide which group(s) they want to be in.

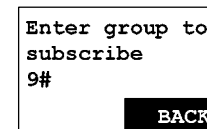


2. For example, Group 1 represents the Customer Service Group, Group 2 represents the Sales Group, and Group 3 is the Marketing Group. Suppose that Handset 11 wants to receive incoming rings for all Sales and Marketing related calls. Then handset 11 will need to "subscribe" to Group 2 and Group 3.

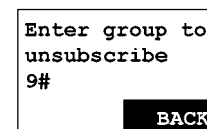


#### 3. Group Selections:

- a. Press handset **MENU**-4 to enter the Call Settings menu
- b. Press number "2", handset enters group setting menu.
- c. Press **OPTION** soft key and followed by "1" key to subscribe the group ("9 #", #:1~9). Enter 1~9.
- d. Repeat for all desired groups.



- e. Delete group selections by pressing **OPTION** soft key and followed by "2" to Unsubscribe the group.



#### Notes:

1. The handset can change group affiliations at any time.
2. The base is not responsible for group assignments.

- Consequently, it cannot de-subscribe a handset from a group.
- When an outside line or an intercom caller enters a group ID, all handsets subscribed to this group will ring. The first handset to answer will establish a link with the caller. Afterward, it is a one-to-one call, not a one-to-many call.

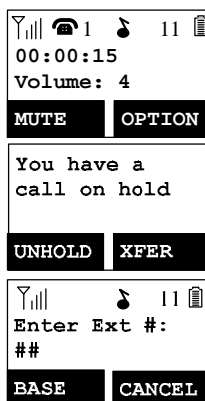
## Call Transfer

While a telephone call is in progress, you can transfer it between different handsets or transfer to base.

### Direct transfer from handset

- Press **CALLER ID** **HOLD** key to put the call on hold.
- Press **XFER** (Right) soft key, followed by the destination handset ID or **BASE** (Left), then the held call will be transferred directly.

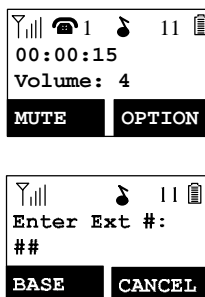
After the call transferred to destination handset or Base, the original handset will go back to standby mode automatically.



### Indirect transfer from handset

If you want to talk to the destination handset or Base before the call transferred, you can follow with below method:

- During the call, press **INTERCOM BROADCAST** key, followed by entering the destination handset ID or **BASE** (Left).
- Press the **CALL** or **INTERCOM** key of the destination handset or press the **INTERCOM BROADCAST** key of base to answer the intercom call, you can now talk to the destination handset. After the talking, press **END** to end the intercom call, then the destination handset is able to pick up the incoming call.



After the call transferred to destination handset or Base, the original handset will go back to standby mode automatically.

### Direct transfer from base

- Press base **HOLD** key to put the call on hold.  
Re: When call on hold, the base In Use & speakerphone LED will be flashing.
- Enter the destination handset ID followed by **TRANSFER** key, the destination handset will ring, press **CALL** or **INTERCOM** key of destination handset to pick up the call.

After the call pick up by destination handset, the base will go back to standby mode automatically.

### Indirect transfer from base

If you want to talk to the destination handset before the call transferred, you can follow with below method:

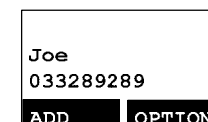
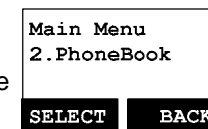
- Press the destination handset ID followed by the base **INTERCOM BROADCAST** key to intercom the destination handset.
- Press the **CALL** or **INTERCOM** key of the destination handset to answer the intercom call, you can now talk to the destination handset.

After the talking, press base **INTERCOM BROADCAST** to end the intercom call, then the destination handset will pick up the held incoming call.

**Notes:** If the destination handset does not answer after handset paging timeout, the call is routed back to the originating handset.

## Phonebook Operations

- You can store up to 50 entries in the phonebook. Each entry can contain a phone number or handset ID (up to 26 digits) and a name (up to 16 characters).
- To access the phonebook, press **MENU** (Right) soft key, follow by "2"; or press **UP** scrolling key while the handset is in standby mode.
- To add a new entry:
  - Press **ADD** (Left) soft key.
  - Enter the name when LCD prompts "Name?" Use



**DELETE** (Right) soft key to delete the last digit entered. When completed, press **SAVE** (Left) soft key to save.

Re: Up to 16 characters can be entered as the name.

Name?	
=	
Caps = *	
<b>SAVE</b>	<b>DELETE</b>

- c. You will then be prompted to enter a number for the name just entered.







Re: Up to 26 digits can be entered as the number.

- d. After entering the number, press the **SAVE** (Left) soft key to save this entry into phonebook.

Number?	
—	
<b>SAVE</b>	<b>DELETE</b>






- e. Enter a phonebook entry without a name, the all records without name will be placed on top of the phonebook list.
- f. To enter the name, press the corresponding keypad number one or more times according to the order of the character on the key.  
See table below for a list of available characters and their orders. For example, press “2” once for the character “A”, twice for “B”, etc.

#### Notes:

- When enter a phone number, the cursor automatically advances to the next digit field. Use  or  scrolling key to move the cursor backward or forward to insert or delete (the digit above the cursor, or left of the cursor if cursor is on the right of the last digit).
- When entering a name, the cursor automatically advances to the next character field if you press a different key for the next character. If you need to enter consecutive characters from the same key, you can wait for the cursor to advance or use  or  scrolling key to move the cursor backward or forward manually. Also use  or  to move the cursor to insert (to the left of the cursor) or delete (the character above the cursor, or left of the cursor if cursor is on the right of the last character).
- By default, all letters are entered in the upper case. Use the \* key to toggle between upper and lower cases.
- A “Pause” entry represents a 1 second delay in dialing the following digits, which is useful when calling a sequence of segmented numbers (e.g., access code, credit card number, auto-attendant entries, etc.) Pause is entered by pressing the # key twice (LCD displays P). Entering pause twice (PP) will result in 2 seconds pause in the dialing.

#### 5. Character Table:

Key	Characters and Orders
1	' + , . * ( ) & 1
2	A B C 2
3	D E F 3
4	G H I 4
5	J K L 5
6	M N O 6
7	P Q R S 7
8	T U V 8
9	W X Y Z 9
0	0
*	Caps – when in character editing. * – when in number editing.
#	Space & # – when in character editing # & P (Pause) – when in number editing

4. The entries are alphabetically sorted and stored as a list in an ascending order (A to Z) from the top of the list.
5. The first line of LCD display shows name and the 2<sup>nd</sup> line shows the phone number. If the phone number is longer than 16 digits, press **OPTION** (Right) soft key and select Option 3 to view the complete number.
6. To search for a record:
- Use  scrolling key to enter the Phone Book mode.
  - Press a key that corresponds to the first character of the name you are looking for.
  - For example, you are looking for “EnGenius”, and then press the number “3” once.
  - Use  or  scrolling key to locate the exact record you are looking for.
7. To erase phonebook:
- Use  or  scrolling key or the alphabetical search method to locate the record to be erased or edited.

Joe	
033289289	
<b>ADD</b>	<b>OPTION</b>

- b. Press **OPTION** (Right) soft key to enter editing menu.
- c. Press "1" to erase the designated phone entry.
- d. LCD shown "Delete entry?" Press **YES** (Left) soft key to confirm your change.

Delete entry?	
Tom	
12345678	
YES	NO

8. To edit phonebook:

- a. Use or scrolling key or the alphabetical search method to locate the record to be erased or edited.
- b. Press **OPTION** (Right) soft key to enter editing menu.
- c. Press "2" to edit the designated phone entry.

Joe	
033289289	
ADD	OPTION

Name?	
=	
Caps = *	
SAVE	DELETE

9. Dial from display:

- a. Press or to dial the phone number or Handset ID displayed.

## Call barring

1. Block the users from dialing the long distance calls or international calls. You need the password to enter the setting. The default PW is "0000".
2. Press **MENU**-4-3 to enter Call Barring. Enter the password, followed by **OK** (Left) soft key

Call Settings	
3.Call Barring	
SELECT	BACK

Call Barring	
off	
SELECT	BACK

3. Use or scrolling key to switch between On and Off of this setting. Press **SELECT** to confirm your selection.  
Re : The default of Call barring is "Off".

4. To add the Call barring code

- a. Once turn on the call barring feature, you can key in the "call barring" code. Press **ADD** (Left) soft key then start entering the call barring code After the number entered, press **SAVE** (Left) soft key to save it.

Number?	
-	
SAVE	DELETE

- (1) Up to 5 digits can be edit to be call barring code. For example, if you want to block all call dialing to Manhatttan, NY area, you can enter 1212 as the call barring code.

- (2) If you base station is adjust to a PBX system, please also include that specific number to retrieve the PSTN tone.

- b. Press **OPTION** to delete or edit the call barring codes.
- c. Up to 5 set of call barring codes can be programmed.

Call Barring	
1212	
ADD	OPTION

- d. If wants to block all outgoing calls, enter "\* \* \* \* \*", press **SAVE** (Left) soft key to save it, all outgoing calls will be restricted.

## Programmable Feature Call

1. If EP801 base unit is installed behind a PBX system, it is feasible to pre-program some feature call along with the PBX's feature code into the system.
2. Up to 10 most frequently used feature call codes can be pre-programmed.
3. Name and enter feature call codes:

- a. Press **MENU** (Right) soft key while the handset is in the standby mode.
- b. Press "4", followed by "4" to enter the "Feature Call" menu.
- c. Press **ADD** (Left) soft key to add a new entry of feature call.
- d. Key in the name of feature call, like editing a phonebook entry, i.e. "PBX Transfer". Press **SAVE** (Left) soft key to confirm.

Call Settings	
4.Feature Call	
SELECT	BACK

Empty	
ADD	

- e. Key in the feature call code of the correspondence PBX feature i.e. F\*70.  
Press **SAVE** (Left) soft key to confirm.  
Re: "F" represent the Flash signal.

Feature Name?	
—Caps = *	
<b>SAVE</b>	<b>DELETE</b>

- f. The 1<sup>st</sup> feature call and correspondence feature call code you entered will appear on the LCD screen.

Number?	
<b>SAVE</b>	<b>DELETE</b>

- g. Press **OPTION** (Right) soft key to delete or edit the feature call you programmed into the system.  
h. Repeat the same operations to program 2<sup>nd</sup> and even more feature call that you will use frequently.

PBX Transfer F*70	
<b>ADD</b>	<b>OPTION</b>

#### 4. Using pre-programmed feature call during the call.

- a. Press **OPTION** (Right) soft key while the handset is in the talk mode.  
b. Press the correspondence number of the feature call which you want to perform i.e. press "0" to perform the "PBX Transfer".

1  11	
00:00:15	
Volume: 4	
<b>MUTE</b>	<b>OPTION</b>

1  11
Option:
0.PBX Transfer
#.Phonebook

#### Notes:

- This feature call would be useful if the EP801 base unit is adjunct to a PBX system,
- if you have not pre-programmed any feature call into the system, only "#.Phonebook" in the **OPTION** menu.
- The EP801's programmable feature call may not function with all PBX or Key phone systems due to the diversity of various proprietary systems.

## Caller ID

- Contact with your local phone company to subscribe to this feature. The phone system receives and displays Caller ID information transmitted by your local phone company. This information may include the phone number, date, time. This unit can store up to 50 calls.
- The display will show the date and time of call on the first line, followed by the name on the second line, and the phone number on the third line. An unread record will have a "NEW" at the end of the first line of display.
- When viewing a call record, the number can be dialed, stored to the phonebook or deleted.

## View Call Log

- To view the call log, press **CALLERID** to enter the Call Log.  
Press or key to scroll through the numbers and names when available.

01/04 08:20P NEW	
Johnson	
423-1234	
<b>FORMAT</b>	<b>OPTION</b>

- Press **OPTION** (Right) soft key, you can or key to choose save, delete, clear all.

Option: Save	
<b>SELECT</b>	<b>BACK</b>

#### a. Save call log:

- Press **SELECT** (Right) soft key, you can use or key to scroll the name, and press **DELETE** to edit the name.  
Then press **SAVE** (Left) soft key to save the name.

Name?	
Johnson_	
Cap = *	
<b>SAVE</b>	<b>DELETE</b>

- Use or key to scroll the number, and press **DELETE** to edit the number.  
Then press **SAVE** (Left) soft key to save the number.

Number?	
4231234_	
<b>SAVE</b>	<b>DELETE</b>

- After above process, the call log saved into phonebook.

#### b. Delete call log:

- Press **SELECT** (Right) soft key followed by **YES** (Left) soft key to confirm deleting.

Option: Delete	
<b>SELECT</b>	<b>BACK</b>





#### c. Clear All:

- Press **SELECT** (Right) soft key followed by **YES** (Left) soft key to confirm clearing all caller ID records.


Option: Clear all	
<b>SELECT</b>	<b>BACK</b>











### Call a Caller ID

1. Press **CALLERID** key, use  or  key to scrool the call log.
2. When display a caller ID, Press  or  to dial this number.

### Base Speed Dial Setting

1. You can store up to 20 entries in the speed dial memory. Each speed dial memory can contain a phone number (up to 32 digits).
2. Base during standby mode, press **MEMORY** key, enter the telephone number.
3. Press **MEMORY** key, followed by a 2-digit memory location, base then will emit a two short tone (Bi-Bi) to confirm the setting.  
Re: The memory location is "00" ~ "19".
4. When using the base speed dial, press  key followed by **MEMORY** key, then enter the 2-digit memory location ("00"~"19").  
The base will dial the telephone number accordingly.

### Base Ringer Setting

1. You can change the base ringer by following :
2. Base during standby mode, press **MEMORY** key twice, followed by  or  key, the base speaker will emit the varied ringer (up to 8 ringer tones).
3. Press **MEMORY** key to confirm the setting.
4. To adjust the ringer volume, two options can be followed:
  - a. Base during standby mode, press  or  key.
  - b. When incoming call, press  or  key.
  - c. When press  or  key to adjust the volume, the speaker will emit the loudness of ringer, you can choose the preference.  
Re: The loudness level of ringer is "0~4", "0" means ringer "Off".

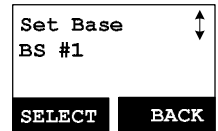
### Multi-Base Setting

"Multi-Base" setting allows expanding coverage or lining capacity. When adding 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> base, using one of the handsets which registered to the 1<sup>st</sup> base (i.e. the handset with ID 11), followed by below processes :

1. Press **MENU**, followed by "7" to enter the registration mode.



2. Press & hold the base REG button for thrress seconds, the base will emit the prompt ringing (also the base speakerphone & Intercom LED is flashing).



3. Press digit "3" of handset to enter the Multi-Base mode.

4. Select BS # 1

5. Repeat above step 1 ~ 4 to continuously add the 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> base.

Re : The base ID for 1<sup>st</sup> base is "10", for 2<sup>nd</sup> base is "20", for 3<sup>rd</sup> base is "30", for 4<sup>th</sup> base is "40".

#### Notes:

1. When initial setting the "Multi-Base", you have to select the BS #1 first, then followed the above steps to select 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> base.
2. For synchronization mechanism, all handsets must be register again before start using multi-base scenario. i.e. the initial handset ID with 1x must register to BS1, and the rest handsets must be registered to 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> base respectively.
3. After all above processes, the "Multi-Base" is complete then.

### Call Manager

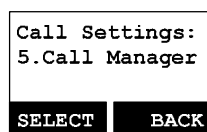
"Call Manager" feature allows two options :

1. One is the handset to be set to receive incoming calls or make outgoing calls (2-way intercom, broadcast and transferred call are allowed). The option is selectable by base 1 to base 4.

2. The other option is the handset to be set to access to available bases automatically or manually.



For 1<sup>st</sup> option (Subscribe BS) :

1. Press **MENU**, followed by “4” to enter the Call Settings mode.  
Press “5” to select Call Manager.



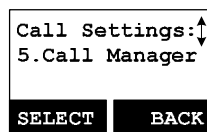
2. Press “1” to set Subscribe BS.  
Re : When entering the submenu of Subscribe BS, the LCD will show the available bases which already subscribed.



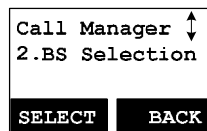
3. Press  or  key to select the desired base (#1~4), press **CHANGE** (Left) soft key to set the Subscribe BS ON/OFF.
4. If set the Subscribe BS ON, that means the handset is able to access the line of the desired base, so the handset is able to make outgoing call or answer incoming call via the desired base.  
On the contrary, if set the Subscribe BS OFF, then the handset can't access the line of the desired base, so the handset isn't able to make outgoing call or answer incoming call via the desired base.

For 2<sup>nd</sup> option (BS Selection) :



1. Press **MENU**, followed by “4” to enter the Call Settings mode.  
Press “5” to select Call Manager.



2. Press “2” to set BS Selection.  
Re : Default setting is “OFF”.



3. Press **CHANGE** (Left) soft key to set the BS Selection ON/OFF.

Re : If BS Selection set “ON” , when pressing  or  key, the LCD will show the available bases (Lines), i.e. 1, 2, 3, 4. Press digit “1”, you can access to base 1 to get the line.

**Note : When single base, no “Call Manager” setting in “Call Settings”.**

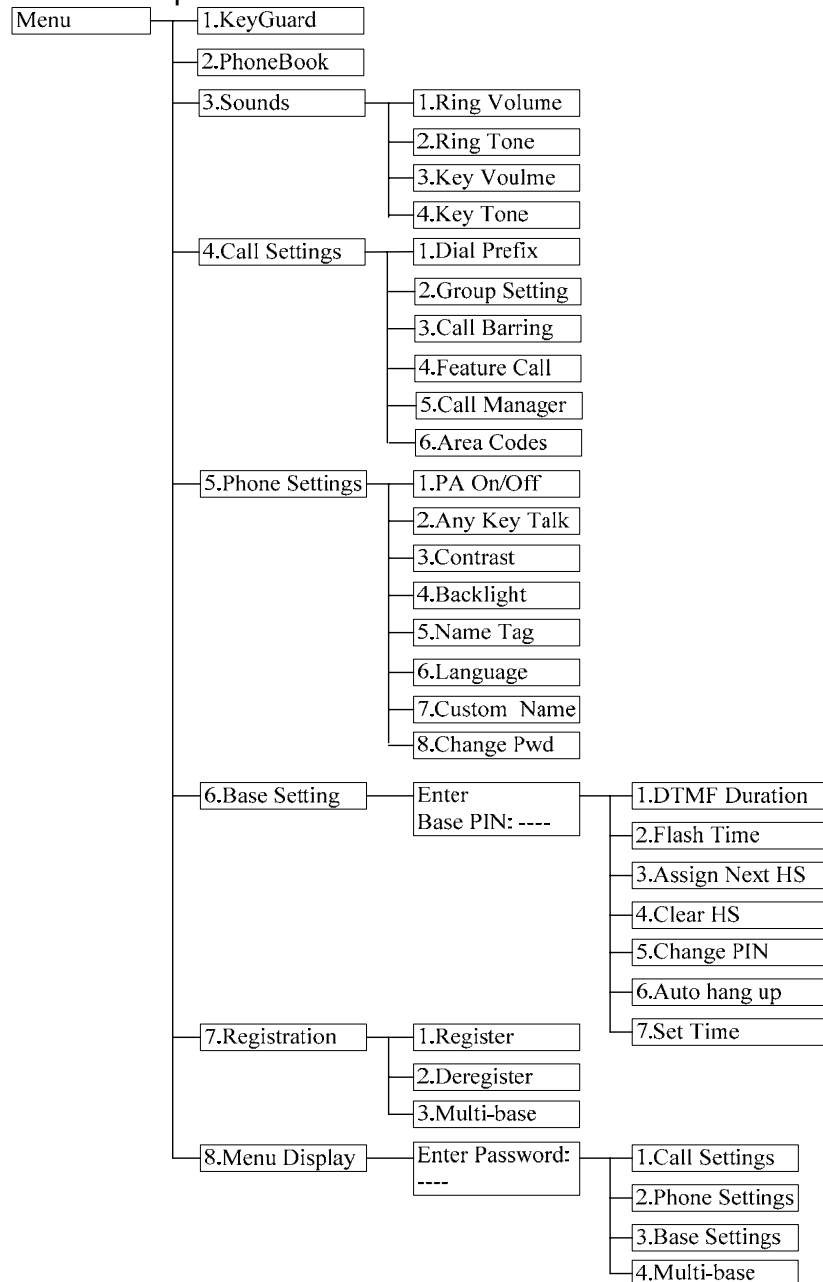
### Visual Message Waiting Indicator (VMWI)

VMWI feature supported the FSK message which received from telephone line; It will activate a message icon of handset and flash the broadcast LED of base.

#### Notes:

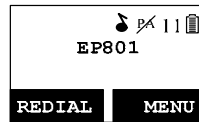
1. A subscription to telephone company voice mail service is required.
2. If the handset still indicates the icon even after you have listened all messages, turn it off by pressing and holding “Caller ID” key on the handset.

## Menu Operations



1. Press **MENU** (Right) soft key to enter menu mode while the phone is in standby mode.  
 Re: You can either press or , followed by **SELECT** (Left) soft key to confirm the selected menu. Or Press the digit directly to confirm the selected menu. For example, press **MENU** (Right) soft key -3-1 to select the Ring Volume.
2. Press "1" to select KeyGuard (see Key Guard operation on page [34](#)).
3. Press "2" to add, delete, edit, view and edit the phonebook (see Phonebook instruction on page [38](#)).
4. Press "3" to set Sounds settings:
  - a. Press "1" to select Ring Volume:  
 Use or to scroll through 6 options: "Off", "Low", "Medium", "High", "Vibrate" and "Vibrate & High". Press **SELECT** (Left) soft key to save selection. Default = Medium.
  - b. Press "2" to select Ring Tone:  
 Total 8 ringers (1~8) for two scenarios: 1.Line Ring (Ringer for incoming call) ; 2.Intercom Ring (Ringer for intercom call).  
 Use the or to scroll through 8 ringers, press **SELECT** (Left) soft key to save selection. Default = 1.
  - c. Press "3" to select Key Volume when a key is pressed:  
 Use or to scroll through 4 options: Off, Low, Medium, and High. Press **SELECT** (Left) soft key to save selection. Default = Medium.
  - d. Press "4" to select Key Tone:  
 Use the or to scroll through 4 options: 1, 2, 3 and 4. Press **SELECT** (Left) soft key to save selection. Default = 1.
5. Press "4" to set Call Settings:
  - a. Press "1" to set Dial Prefix:
    - (1) Press or to turn of or off the dial prefix feature. Default = Off.
    - (2) If "On" is selected, the handset is prompted to enter the prefix number, up to 14 digits can be entered.
    - (3) Use **Delete** (Right) soft key to edit prefix number.
    - (4) Press **SAVE** (Left) soft key to confirm the selection.
    - (5) When this feature is turned on, the LCD will prompt the user on each outgoing phone call, the current prefix is also displayed.
    - (6) This feature is useful for access code, calling card, and credit card calls, etc.

- b. Press "2" to Group Select: see Handset Group Subscription on page 35.
  - c. Press "3" to set Call Barring: see Call Barring operation on Page 41.
  - d. Press "4" to set Feature Call: see Feature Call operation on Page 42.
  - e. Press "5" to set Call Manager: see Call Manager operation on Page 46.
  - f. Press "6" to set Area Code:  
The area code setting allow calls within local and regional area codes to be dialed without prefix.
    - (1) Set Local Area Code :  
Press **MENU**-4-6-1 to set the LAC. Enter the local area code (3-digit) then press **SAVE** (Left) soft key to confirm selection.
    - (2) Set Country Area Code :  
Press **MENU**-4-6-2 to set the country code. Enter the code (3-digit) then press **SAVE** (Left) soft key to confirm selection.
6. Press "5" to set Phone Settings:
- a. Press "1" to set PA On/Off  
Use **CHANGE** (Left) soft key to select and confirm on or off.  
Re: When set "off", the handset will not receive broadcast from other handsets or base. The LCD will display a PA off icon to prompt.



- b. Press "2" to set Any Key TALK:  
Use **CHANGE** (Left) soft key to select and confirm on or off.  
Re: a. When set "on", press any key (except **END**) to answer the incoming call.  
b. When set "on", the handset will automatically answer the call while lift the handset from cradle.
- c. Press "3" to set LCD Contrast:
  - (1) Use **UP** or **DOWN** to scroll through option 1~8. Default is 4.
  - (2) Press **SAVE** (Left) soft key to confirm selection.
- d. Press "4" to set LCD Backlight:
  - (1) Use **UP** or **DOWN** to scroll through option 1~3 (1.8 seconds 2.On 3.Off ). Default is "8 seconds".
  - (2) Press **SAVE** (Left) soft key to confirm selection.
- e. Press "5" to set Name Tag:
  - (1) Use **UP** or **DOWN** to scroll through option on or off. Default is "Off".
  - (2) Press **SAVE** (Left) soft key to confirm selection.
 Re: When Set "on", if matching the caller ID with the phone book

- entries; once matched, the LCD screen will display the name or nickname instead of pure caller ID info (needs Call Waiting with Caller ID service from local telephone company)
  - f. Press "6" to set Language:
    - (1) Use **UP** or **DOWN** to scroll through option 1~3 (1.English 2.Spanish 3.French ). Default is "English".
    - (2) Press **SAVE** (Left) soft key to confirm selection.
  - g. Press "7" to set Custom Name:
    - (1) Enter characters using the Character Table and method discussed in the Phonebook section.
    - (2) Use **UP** or **DOWN** to move the cursor backward or forward to insert (to the left of the cursor) or delete (the character above the cursor, or left of the cursor if cursor is on the right of the last character).
    - (3) Press **SAVE** (Left) soft key to confirm setting.
 Re: Once entering the custom name, the greeting of LCD in standby mode will be changed as the entering.
  - h. Press "8" to Change Password:
    - (1) Enter original password (4 digits) when enter this menu.
    - (2) Enter new password then press **SAVE** (Left) soft key to confirm new password.
7. Press "6" to set Base Settings:  
When enter this menu, you must enter PIN code first (4 digits).  
Re: The PIN code is for Base Settings.
- a. Press "1" to set DTMF Duration.
    - (1) Enter the DTMF duration (90~200ms), press **OK** (Left) soft key to confirm the setting. Default is 100ms.
 Re: Please check with your dealer before you change it. If the duration not match with PSTN or PBX setting, it may operate faultily.
  - b. Press "2" select flash key timing. Default is 600ms.
    - (1) Use **UP** or **DOWN** to scroll through option 1~9 (100~900ms).
    - (2) Press **SELECT** (Left) soft key to confirm selection.
 Re: The default value (600 ms) works in most areas. Changing this setting may cause Flash key not working. Change only when you are certain of the new value would work.
  - c. Press "3" to set Assign Next HS
    - (1) Enter 2-digit handset ID followed by pressing **OK** (Left) soft key.
    - (2) When register a new handset, the base will assign the specific handset ID which assigned in advance to the new handset.
  - d. Press "4" to set Clear HS
    - (1) Enter 2-digit handset ID followed by pressing **OK** (Left) soft key.
    - (2) The base will erase the handset ID from system.

- e. Press “5” to Change PIN:
    - (1) Enter the new PIN followed by **OK** (Left) soft key.
    - Re: Default PIN is “0000”.
  - f. Press “6” to set Auto Hang Up:
    - (1) Use **CHANGE** (Left) soft key to select and confirm on or off. The Default PIN is “0000”.
    - Re: When setting “on”, the EP801 will automatically hang up if the far end caller hung up already. However, this function depends on if there is “Line Reversal” signal sent out by PBX or PSTN, after the call hung up.
  - g. Press “7” to Set Time to support DTMF Caller ID:
    - (1) Use **CHANGE** (Left) soft key to select and confirm on or off. The Default PIN is “0000”.
8. Press “7” to register, de-register handset and set Multi-Base: see Handset Registration operation on Page 35, and Multi-base Setting on Page 46.
9. Press “8” to set Menu Display:  
 To avoid mis-setup of Call Settings (MENU-4), Phone Settings (MENU-5) and Base Settings (MENU-6), you can hide these menus, so that other handset users won’t have chance to mis-setup these settings.  
 Re: When entering the Menu Display, you have to enter password first.
- a. Press “1” to set hiding/un-hiding of the Call Settings menu.
    - (1) Use **CHANGE** (Left) soft key to select and confirm on or off.
  - b. Press “2” to set hiding/un-hiding of the Phone Settings menu.
    - (1) Use **CHANGE** (Left) soft key to select and confirm on or off.
  - c. Press “3” to set hiding/un-hiding of the Base Settings menu.
    - (1) Use **CHANGE** (Left) soft key to select and confirm on or off.
  - d. Press “4” to set hiding/un-hiding of the Multi-base Settings menu.
    - (1) Use **CHANGE** (Left) soft key to select and confirm on or off.
- Re: Select “On” means the menu will be displayed on screen. Select “Off” means the menu will be hidden.

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## Technical Specifications

Electrical Specifications	Base Station	Portable Handset
Frequency	863-865 MHz	863-865 MHz
RF Output Power	Peak: 8 dBm	Peak: 7 dBm
	Average: 5 dBm	Average: 5 dBm
Channel Spacing	50 kHz	50 kHz
Number of Channels	38	38
Modulation	GMSK	GMSK
TDD Frame Length	10 ms	10 ms
Number of Slots/Frame	2	2
Receiver Sensitivity	<-116dBm (@ BER 10 <sup>-2</sup> )	<-116dBm (@ BER 10 <sup>-2</sup> )
Antenna Gain	2 dBi	Long: 2.5 dBi Short: 1.5 dBi
Antenna Connector	TNC	Proprietary
Telephone Interface	RJ11 x 2	NA
Channel Coding	½ rateConvolutional + CRC	½ rateConvolutional + CRC
Transmission Data Rate	42.667kbps	42.667kbps
Speech Coding	8 kbps G.729A	8 kbps G.729A
User Data Rate	32kbps duplex	32kbps duplex
Duplex	Time Division Duplex (TDD)	Time Division Duplex (TDD)
Multiple Access	FDMA	FDMA
Number of System ID	65,536	65,536
Ring Signal	20-50 Hz, 12-90 Vrms	NA
Flash Time	100-900 ms programmable	NA
Power Source	AC/DC 12V/1A Adapter	3.7 V/1100mAh Li-Ion Battery
Charger Current	NA	550mA
		(550/850 mA for desktop charger)
Charge Time	NA	3hours
Regulation Compliance	EN 301 357-2 (RF)	EN 301 357-2 (RF)
	EN 301 489 (EMC)	EN 301 489 (EMC)
	EN 60950 (Safety)	EN 60950 (Safety)
		EN 50371 (RF safety)
Operating Temperature	0 – 50 °C	-10 – 60 °C

### Notes:

1. NA = Not Applicable.
2. The manufacturer reserves the right to change designs and specifications without notice.