

43-3519 Operation Manual

2.4 GHz Digital Spread Spectrum Technology
Cordless Telephone
With
Caller ID / Caller Waiting ID

PLEASE READ THIS INSTRUCTION MANUAL CAREFULLY

CONTENTS

Important Safety Instructions	3
Battery Cautionary Instructions	4
Features	5
Function and Control Locations	6
Installation/operation	7
1. FUNCTIONAL SUMMARY	7
1.1 SCOPE	7
1.2 FEATURES	7
1.3 UNIT AS RECEIVED	7-8
1.3.1 Telephone Base unit Model	
1.3.2 Telephone Handset Model 43-3519(Factory Initial)	
1.3.3 Accessory	
1.4 DISPLAY	8-9
1.4.1 LED	
1.4.2 LEDs on Base unit	
1.4.3 LCD on the Hand set	
1.5 QUICK VIEW OF CONTROLS AND DISPLAYS	9-10
1.5.1 Base station	
1.6 USER INTERFACE	10-30
1.6.1 Understanding displays	10
1.6.2 Warning Indicators	10~11
1.6.3 Page	11
1.6.4 Making and Terminating a call	12~15
1.6.5 Controls during OFF-HOOK	15-17
1.6.6 Programming mode	17-19
1.6.7 Phone Directory	20-23
1.6.8 Caller ID Features & Functions	24-30
2. ELECTRICAL SPECIFICATION	31
2.1 Channel table	
3. LINE INTERFACE	32-33
3.1 Battery Requirements	
3.2 Flash Timing	
3.3 DTMF and Pulse Dialing	
3.4 Dial Pulse Mute	
3.5 Ring Sensitivity: Shall meet the RS Spec	
3.6 ON-HOOK DC and AC Characteristics: Shall meet the RS Spec.	
3.7 OFF-HOOK Characteristics: Shall meet the RS Spec.	
3.8 Caller ID	
Care and Maintenance	34-35
FCC Information	36
Limited Warranty	37

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners, or aerosol cleaners. Use a damp cloth for cleaning. If necessary, use a mild soap.
4. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
6. 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.
7. Do not allow anything to rest on the telephone line cord. Do not locate this product where the cord will be abused by persons walking on it.
8. Never push objects of any kind into this product through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
9. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks.
Incorrect re-assembly can cause electric shock when the appliance is subsequently used.
10. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the product.
 - c. If the product has been exposed to rain or water.
 - d. If the product does not operate normally by following the operating instructions. Adjust only those controls, that are covered by operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. If the product has been dropped or the cabinet has been damaged.
 - f. If the product exhibits a distinct change in performance.
11. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
12. Do not overload wall outlets and extension cords as this can result in the risk of fire or electrical shock.
13. Do not use the telephone to report a gas leak in the vicinity of the leak.
14. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes or possible special disposal instructions.

SAVE THESE INSTRUCTIONS

BATTERY CAUTIONARY INSTRUCTIONS

CAUTION: To Reduce the Risk of Fire or Injury to Persons, Read and Follow these Instructions.

1. Use only replacement battery pack of the required size and type: F3HR-AAAL60 made by E-CELL Pte Ltd. or LH600AAA3B(AAA×3) made by LEXEL BATTERY CO.,LTD.

Use only 3.6V 800mAh Nickel Cadmium(Ni-Cd).

2. Do not dispose of the batteries in a fire. The cell may explode. Check with local codes or possible special disposal instructions.
2. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
3. Exercise care in handling batteries in order not to short the battery with conductors such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
4. Do not attempt to recharge the batteries provided with or identified for use with this product by heating them. The battery may leak corrosive electrolyte or may explode.
5. Do not attempt to rejuvenate the batteries provided with or identified for use with this product s by heating them. Suddenly release of the batteries electrolyte may occur causing burns or irritation to eyes or skin.
6. All batteries should be replaced at the same time. Mixing fresh and discharged batteries could increase internal cell pressure and rupture the discharged batteries.
7. When inserting batteries into this product, the proper polarity or direction must be observed. Reverse insertion of batteries can cause charging, and that may result in leakage or explosion.
8. Remove the battery from this product if the product will not be used for a long period of time (several months or more) since during this time the battery could leak in the product.
9. Discard dead batteries as soon as possible since dead batteries are more likely to leak in a product.
10. Do not store this product, or the battery provided with or identified for use with this product, in high temperature areas. Batteries that are stored in a freezer or refrigerator for the purpose of extending shelf life should be protected from condensation during storage and defrosting. Batteries should be stabilized at room temperature prior to use after cold storage.

CAUTION ▲ : Any changes or modifications in the construction of this device which is not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FEATURES

Thank you for purchasing the Model 43-3519 Cordless Telephone. The 43-3519 Cordless Telephone with Caller ID incorporates 60 names and numbers Caller ID memories.

43-3519 Cordless Telephone offers the following features:

Extra Large 3-Line Liquid Crystal Display :

- Displays Caller's name and number as well as the time and date of the Call *
 - Displays Caller's name and number of the Call Waiting **
 - Programmable Area Code up to 3 digits.
 - Displays Total Calls as well as Total New Calls in Standby Screen.
- * Requires telephone company provided Caller ID and Number Service.
- ** Requires telephone company provided Call Waiting Deluxe Service.

Caller ID User Features Included :

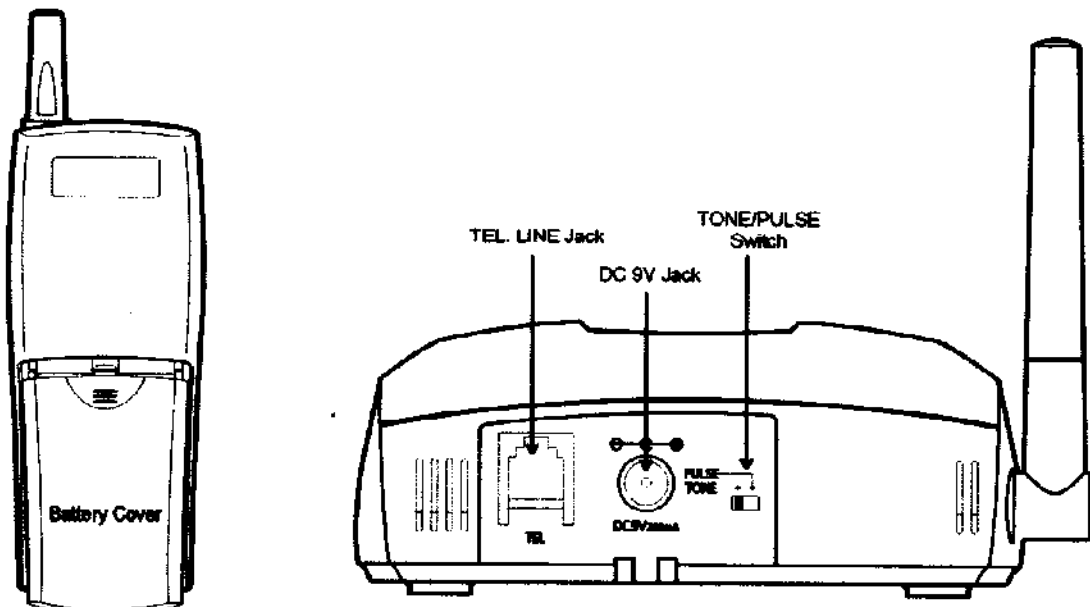
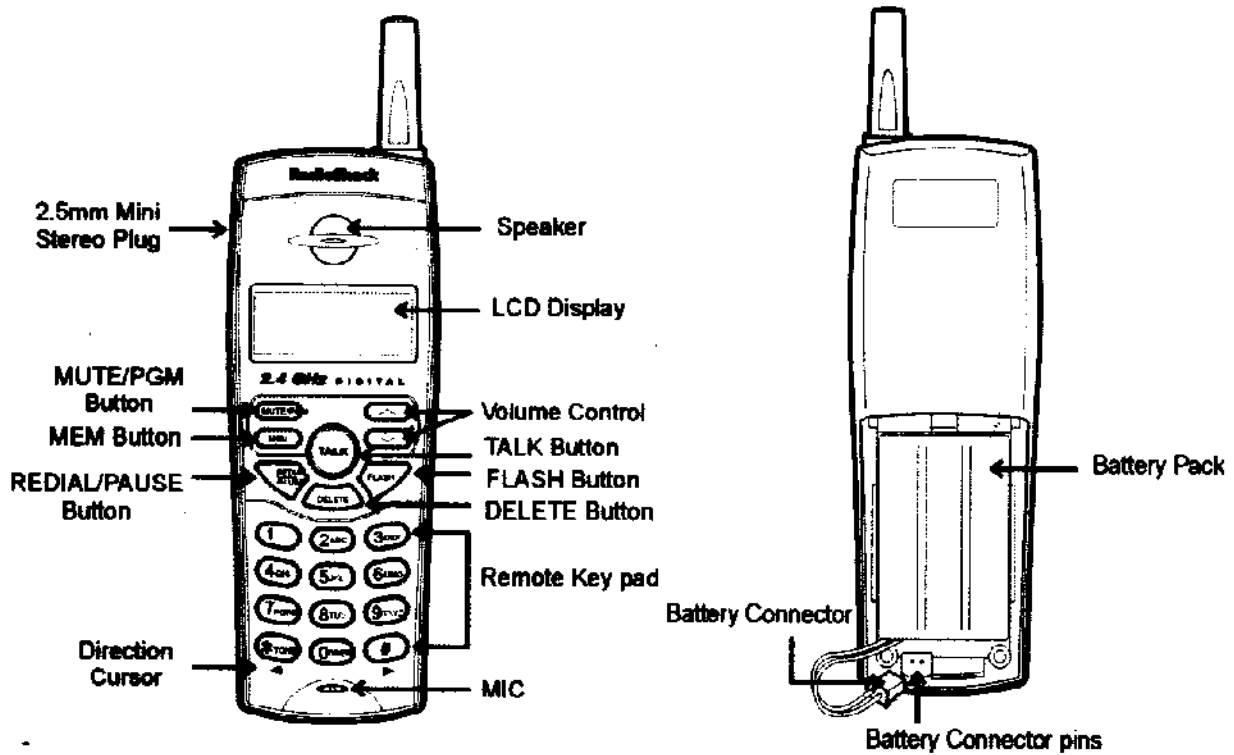
- Stores CID information for the last 60 calls that you have received.
- Review UP(Δ) /DOWN(▽) button to review stored Caller ID records.
- Erase button can selectively or collectively erase stored calls.
- New call and total call symbol indicators.
- Battery indicator
- Call back button.

Telephone User Features Included :

- Comfortable, lightweight headset with adjustable boom microphone.
- MUTE button
- Last number REDIAL button redials the last phone number dialed.
- FLASH button for use with special telephone company service.
- TONE/PULSE switch allows the user to select either type of service.
- Ringer HI-LOW switch allows the user to select high or low ringer volume.
- Slide Volume control switch.
- Belt Clip.
- Hearing Aid Compatible.

FUNCTION AND CONTROL LOCATIONS

(Figure 1)



INSTALLATION/OPERATION

1. FUNCTIONAL SUMMARY

1.1. SCOPE

This specification defines the product features and requirements of the 43-3519, 2.4 GHz digital cordless telephone featured with CID.

1.2. FEATURES:

- ⇒ 2.4 GHz digital spread spectrum technology (DSST)
- ⇒ Caller ID / Call Waiting ID
- ⇒ Back lighted LCD on the Hand Set – (upgrade next PCB)
- ⇒ Tone/Pulse selectable
- ⇒ Page button on the base unit
- ⇒ Head phone jack on the hand set
- ⇒ line cord storage wrap – (upgrade next)
- ⇒ Belt Clip attachable Handset. Belt clip
- ⇒ Auto ON-HOOK:

The unit shall automatically be placed on-hook when the handset is placed in the charging cradle, or when the handset has been determined to be Out-of-Range for a sufficient period of time (Approx = after 30 seconds).

- ⇒ # of Memories: 10
- ⇒ # of digits in the memory: 20
- ⇒ # of characters in the memory: 12
- ⇒ # of CID Memories : 40
- ⇒ # of digits in Redial buffer: 32

1.3. UNIT AS RECEIVED

The package as received shall consist of the following:

1.3.1. Telephone Base unit Model

Charging capability for handset

1.3.2. Telephone Handset Model 43-3519(Factory Initial)

Headphone jack

Ringer set to High

Electronic Volume control with nominal setting (Minimum , Level-1)

All Sets Clears Dial Memory, Area Code, CID Data

Consumer-replaceable Ni-MH Rechargeable battery installed.

1.3.3. Accessory:

Item	Description / Model #	
Telephone Line Cord	Length 6 feet, straight; terminated in USOC RJ11C modular plug.	
Belt Clip	Accessory item	
Headphone	Accessory item (not included)	
Rechargeable Battery	3.6 Vdc, 600 mAh	Ni-MH

INSTALLATION/OPERATION - continued**1.3.3.1. AC-DC Adapter Marking (for Example)**

The following information must appear on the AC-DC Adapter:

RADIOSHACK
CLASS 2 POWER SUPPLY
MODEL NO. : XXXXX
INPUT : 120VAC 60HZ TBD
OUTPUT : DC 9V 500mA
MADE IN AAA

Where AAA is Country Of Origin

The CSA symbol with control number located near symbol

The UL symbol with control number located near symbol.

Plug connection symbol.

In addition, there shall be a caution marking per UL requirement.

CAUTION: RISK OF ELECTRICAL SHOCK. DRY LOCATION USE ONLY.

1.4. DISPLAY:**1.4.1. LED :**

The following illumination cadences shall indicate that...

Off Indicate no action is in progress.

On (Solid) Indicate a steady action in progress.

1.4.2. LEDs on Base unit:

Name	Description
In use/Page LED	LED off if the phone is "on-hook". LED on if the phone is "off-hook". LED slow blinking if <PAGE > key is pressed Fast blinking per cadence during incoming call ringing.
Charge LED	LED off if the handset is out of the cradle. LED on if the handset is on the cradle.

1.4.3. LCD on the Hand set:**1.4.3.1. LCD Characteristics:** Three lines on the TBD mm x TBD mm

- 1st line: Time (HH:MM AM/PM), Date(MM/DD), NEW, Repeat , No
- 2nd line: 12 alphanumeric digits dot matrix for Phone # or mode indication/Total calls
- 3rd line: 12 alphanumeric digits dot matrix for Name or mode indication/New calls

1.4.3.2. Back lighting: Backlight will turn on for incoming call or any key action related to the CID operations. Backlight will turn off (Shell be upgrade next)

Back light Should Automatically turn off after 8 seconds.

INSTALLATION/OPERATION - continued

- 1.4.3.3. Display: LCD shall stay for 20 Seconds and return to standby state if no subsequent key action is taken.

This 20 seconds time out counter will be always reset to zero whenever a key is pressed.

20 seconds time out shall apply to the following functions: CID review, Memory review, Program mode such as Area code, ringer on/off selection.

Call Timer: LCD shall count and display a phone-in-use time during incoming or outgoing call.

1.5. QUICK VIEW OF CONTROLS AND DISPLAYS:

1.5.1. Base station:

1.5.1.1. Page key

This key begins and ends to page the handset. To page, press the <PAGE> key, then the base sends a signal to handsets for a maximum of 15 seconds.

To cancel a page at the base before the time-out automatically, press the <PAGE> key again.

To stop the page before the time-out automatically, press any key.

1.5.1.2. Keys:

The keys have the following definition:

1.5.1.2.1. Numeric keys:

The numeric keyboard is used when dialing and entering numbers.

The <* / TONE> is normally used as the <*> key. If the <* / TONE> key is pressed in pulse-dial mode then the rest of the digits will be dialed in DTMF dial-mode.

1.5.1.2.2. Function keys

The function keys have the following functions:

<FLASH/CALLBACK> Pressing the <FLASH> key gives a 600ms break signal.

Remark : This label will be corrected to <FLASH>

<ERASE> The <ERASE> key is the delete key.

Remark : This label will be corrected to <DELETE>.

^ or v

1. on hook : The arrow keys ^ or v are used to review the call lists stored in the CID Memory stack while in standby-mode.

2. off hook : Volume up / down.

INSTALLATION/OPERATION - continued

<TALK> Answers calls and initiates a dial tone on the line. Releases (disconnects) the active line.

<REDIAL/PAUSE> This key will insert a pause during storing a phone number into memory.

<MUTE/PGM> Refer to 1.6.6

<MEMO> Refer to Attached Refer to 1.6.7

Remark : This label will be corrected to <MEM>

1.5.1.3. Back lighting:(upgrade next)

The handset has backlight, LCD backlight. The backlight will turn on for incoming call or any key action related to the CID operation. Backlight will turn off after 8 seconds of the last CID or key activity

1.6. USER INTERFACE:

1.6.1. Understanding displays:

The handset display gives some information about call status and user options. The content is changed according to the state of the phone. When no call is active, the handset display shows as below.

Total : 00
New : 00

Total : 40
New : 40

Ringer : Off
New : 00

1.6.2. Warning indicators:

1.6.2.1. Low battery indicator:

If battery low becomes detected (battery drops to between 3.1V \pm 0.2volts), The message "Low battery" will be only displayed on the LCD at the stand-by mode, and a warning beep shall be provided every 4 seconds to indicate the low battery status & "Low battery" message will be also displayed on the LCD at the talk mode.

- In standby

Low Battery

-
-
-
- In Use

1:30 30

Low Battery

INSTALLATION/OPERATION - continued

1.6.2.2 Range Warning:

If the handset is moved to a point where the base and handset can no longer communicate each other, the handset will make a warning beep to alert "Out of Range".

In addition, the message "Out of range" appears whenever the handset reaches the end of the range limit. When the handset is in-range, the message disappears

If the handset will bring back into the in-range within 30 seconds, it will stop the warning beep tones. If not, it will enter standby mode.

While the handset is in out of range at the talk mode. The handset will beep at the interval of 4 seconds & have the message, out-of range, displayed on the LCD.

On the other hand, For the stand-by mode, The handset will have only the message, out-of range, displayed on the LCD.

- In standby:




Total : 00
OUT OF RANGE

- In use:



1:30 30
OUT OF RANGE

1.6.3. PAGE**2.6.3.1. Display pre-condition**

Total : 40
New : 40

2.6.3.2. Display post-condition

Paging

When pressing the <PAGE> key on the base set, The Line indicator and "Paging" will display while a page ring tone is sounded.

INSTALLATION/OPERATION - continued

1.6.4. Making and Terminating a call**1.6.4.1. In-coming call**

Total : 40
New : 40

1.6.4.1.1. Display pre-condition

The Line indicator will blink and "Ringing" display while a ring tone is sounded.

Ringing

If user who has subscribed to CID services is receiving a call, the display will appear who is calling.

Note : 11:30AM,3/08, number and name are the CID-information.
If available, The LINE indicator is blinking and a ring tone is sounded.

0:50 AM 3/08 08
123-456-789
SMITH JOHN

If the CID information has been interrupted during transmission or the phone is excessively noisy, the "Data Error" are displayed. See section CID prompt messages.

1.6.4.1.2. Key sequence

Press the <TALK> key.

Data Error

1.6.4.1.3. Display post-condition

TALK

When the connection to the PSTN line is established, The LINE indicator "TALK" appears.

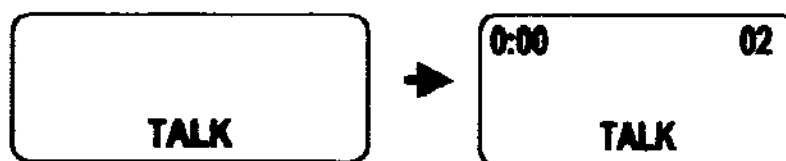
INSTALLATION/OPERATION - continued

1.6.4.2.Out-going call by post-dialing**1.6.4.2.1. Display pre-condition**

Total : 40
New : 40

1.6.4.2.2.Key sequence

- Press the <TALK> key.
- Press digit keys such as <5> <6> and <7> key.

**1.6.4.2.3.Display post-condition**

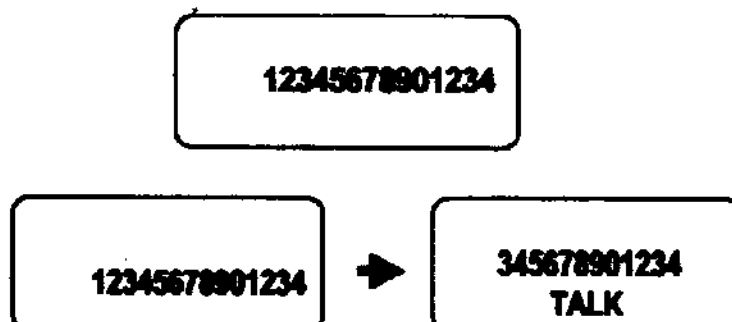
0:00	06
567	
TALK	

1.6.4.3.REDIAL:**1.6.4.3.1.Out-going call by pre-dialing****1.6.4.3.1.1. Display pre-condition**

Total : 40
New : 40

1.6.4.3.1.2.Key sequence

Press <TALK> and <REDIAL/PAUSE> key.



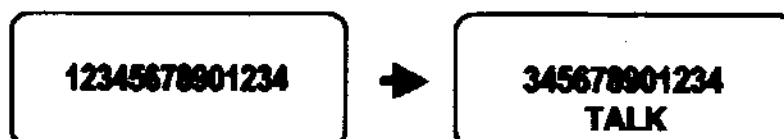
INSTALLATION/OPERATION - continued

1.6.4.3.1.3. Display post-condition**1.6.4.3.2. Out-going call by post-dialing :****1.6.4.3.2.1. Display pre-condition**

Total :	40
New :	40

1.6.4.4.2.2 key sequence

- Press <TALK> and <REDIAL/PAUSE> key. The last number dialed shall be re-dialed.



- <REDIAL/PAUSE> key is pressed, the unit will redial the last number dialed from any source (manually entry, dialing memory, CID call back or a previous last number redial).

1.6.4.4. Combination dialing

All memories and manual digits can be cascaded in any combination (except redial can be activated only when pressed as the first key after going off-Hook).

Note : The dialed digits in pre-dialing (ON-HOOK) are limited up to 24 digits but the digits in off-Hook are not limited.

1.6.4.5. Memory dialing:

The handset can store 10 phone numbers and names of each up to 20 digits and 12 characters long, which can then be speed dialed. Stored numbers can include settings made with * and # key. The pause key can also be stored in memory.

1.6.4.5.1. Display pre-condition

Total :	40
New :	40

INSTALLATION/OPERATION - continued

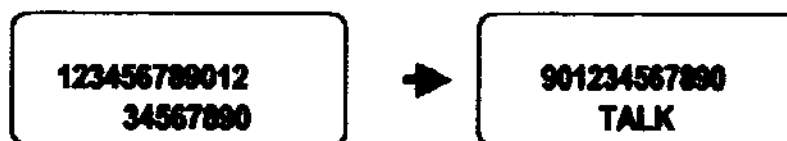
1.6.4.5.2. key sequence

To speed dial numbers stored in the memories.

- Press <TALK> key in the standby.
- Press and release <MEMO> key.
- Press the memory location number (0 to 9). A number previously stored in memory will be dialed.



After dialing a number, press <MEM> key followed by the another memory location. A next number will be dialed in succession.



1.6.5. Controls during OFF-HOOK:

This section explains how to manage calls from the handsets.

1.6.5.1. Flash

Pressing the <FLASH> key during off-hook employ an on-hook transition for the time period. During the flash interval, the phone will not respond to any key presses except <TALK> key or placing the handset on the cradle to on-hook mode. The last dialed number will be stored in the redial memory. The Flash will not be able to be stored in the redial memory.

- Press <FLASH> key then a new number can now be dialed.

1.6.5.2. Electronic mute

The 43-3519 includes an electronics mute feature, which allows the user to place the phone in muted condition, thus disabling transmission to the phone line.

1.6.5.2.1. Mute Enable

- Press the <PGMMUTE> key to mute the handset's microphone, the display shows a prompt "MUTE".



1.6.5.2.2. Mute Disable

Press the <PGM/MUTE> key again.



INSTALLATION/OPERATION - continued**1.6.5.3. Temporary Tone:**

If the unit is set to pulse dialing, the dial mode will be switched to tone by pressing < * /TONE> key. The tone digits will begin dialing followed by the inter-digit pause for the last pulse digit dialed prior to pressing < /TONE> key. The dial mode shall reset to pulse after an on-hook transition by pressing <FLASH> or <TALK> key.

1.6.5.4. Volume Control on the handset**1.6.5.4.1. Volume Down:****1.6.5.4.1.1. Display pre-condition****1.6.5.4.1.2. Key sequence**

Press "v" key during conversation. The change of volume is executed in 1 step. If volume is already in the minimum position & press "v", Display shall show as follows and the handset will make error beeps to alert.



Remark : First display was changed from "Volume 1" to " Volume 4 " on working sample.

1.6.5.4.1.3. Display post-condition**1.6.5.4.2. Volume up****1.6.5.4.2.1. Display pre-condition**

INSTALLATION/OPERATION - continued

1.6.5.4.2.2. Key sequence

Press " ^ " key to adjust the volume during conversation.
If volume were in maximum & pressed, the display shows as follows
and the handset will make error beeps to alert.

**1.6.5.5. Ringer off on the handset**

Refer to 1.6.6.4.

1.6.6. Programming mode

This will step through the following programming mode when the <PGM/MUTE> is pressed each time.

Area code setting
Ringing level setting

1.6.6.1. AREA CODE SETTING**1.6.6.1.1. Manual Setting:**

To enter the area code setting, press <PGM/MUTE> key while in the on-hook.

The LCD will display "AREA CODE"



Enter 3 digits of area code. Cursor will move to right when entered a digit

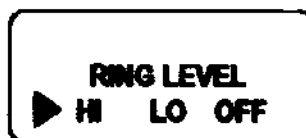


When pressing <MUTE/PGM> key again to save the current mode selected, the LCD displays "RING LEVEL".

INSTALLATION/OPERATION - continued

1.6.6.2. Ring level setting

- Press <MUTE/PGM> key 3 times while in the on-hook. The display shows the current ring level. The default setting is the Hi.



- Pressing (*) or (#) key will set to ring level, Press (#) key one time during the ring level setting mode. The LCD display shows as follows.

Remark : Left & Right cursor will be silk printed for each key at next sample stage.



- Press (#) key two times during the ring level setting mode. The LCD display shows as follows



When pressing <MUTE/PGM> key again to save the current mode selected, A confirmation tone will sound and then will exit the program mode.

1.6.6.3. Displayed Ring off mode on the handset

If your setting the " Ringer off " mode. This indicate " Ringer off" while the handset is standby mode on the LCD.

1.6.6.3.1. Setting the Ringer off mode

Setting follow is refer to 1.6.6.3



Press < MUTE/PGM> Key to save the mode and exit the phone program mode.

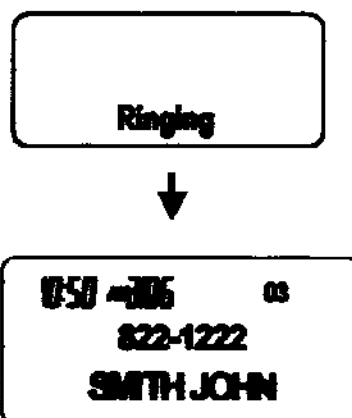
INSTALLATION/OPERATION - continued

1.6.6.4.2. Display pre condition

- Standby mode on LCD

Ringer Off
New : 00

1.6.6.4.3. When received incoming(call) Caller ID



1.6.6.4.4. Display post condition

Ringer Off
New : 01