

Important Safety Instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, 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.
4. Do not use this product near water (for example, near a bath tub, kitchen sink, or 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. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation where proper ventilation is not provided.
7. 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.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
9. Never push objects of any kind into this product through 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.
10. To reduce the risk of electric shock, do not disassemble this product. Opening or removing cabinet parts other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the appliance is subsequently used.
11. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

-
12. Unplug this product from the wall outlet and contact Vtech customer support 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 the operating instructions, because improper adjustment of other controls may result in damage and will often require extensive work by a VTech authorized technician to restore the product to normal operation.
 - E. If the product has been dropped and the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance.
 13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lighting.
 14. Do not use the telephone to report a gas leak in the vicinity of the leak.



If you have questions about this product, or if you're having difficulty with setup or operation, do not return your phone to the store. Call our Customer Support Center at:

1-800-595-9511

In Canada, call

1-800-267-7377

Introduction

Your **VT20-2437** is a unique cordless, 2.4GHz, Digital Spread Spectrum telephone system, capable of supporting up to **8** Handsets. In addition, by docking your cellular phone in the Base Unit adapter/charger, you can use **any** system Handset or the Base Unit to make calls using your cellular line. This is an excellent opportunity to take advantage of the liberal 'nights and weekends' or 'unlimited' calling plans your cellular provider may offer. Using additional Handsets, several people can be using the cordless system at the same time. Some examples:

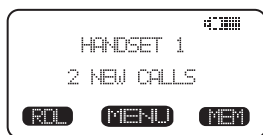
- One Handset on a call on the **HOME** Line; another Handset on a call on the **CELLULAR** Line; while a third Handset is in **Intercom** mode with the Base Unit.
- Two Handsets conferenced on a **HOME** Line call; while an additional Handset is on a **CELLULAR** Line call.
- One Handset in a three-way conference with the **HOME** and **CELLULAR** Lines; while two other Handsets are in **Intercom** mode.

To order additional system Handsets (model# VT20-2439), battery packs, or headsets, call VTech Communications Inc at 1-800-595-9511.

MENU DRIVEN DISPLAY

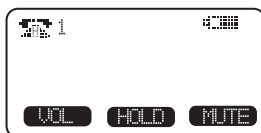
The **VT20-2437** Handset features a user-friendly display, making it easy to access the many features of this multi-Handset, cordless system. The three black keys, found directly below the LCD screen, are called soft keys. They are called this because their functions change depending on what you're doing-making a call, reviewing Caller ID, adding a name and number to your Phone Book, etc.

For example, when the Handset is in the idle mode, the LCD displays:



In this case, the 3 soft keys access **REDIAL**, **MENU** and **MEMORY**.

When the Handset is active, the LCD displays:



In this case, the 3 soft keys access **VOLUME**, **HOLD** and **MUTE**.

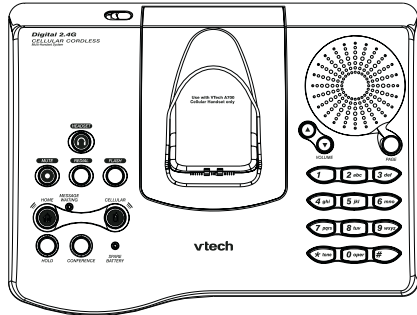
Parts Check List

1. Handset
2. Base Unit
3. Handset Charger
4. Belt Clip
5. Battery Pack
6. AC Power Adapter
7. Telephone Line Cord
8. Owner's Manual

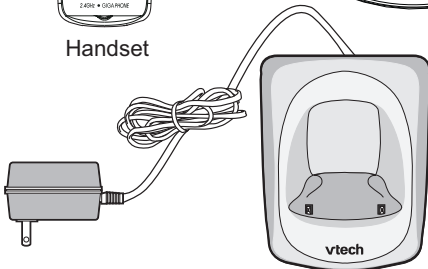
To purchase replacement battery packs, call VTech Communications Inc at 1-800-595-9511. In Canada, call VTech Electronics Ltd at 1-800-267-7377.



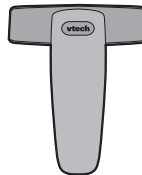
Handset



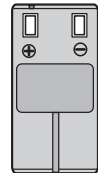
Base Unit



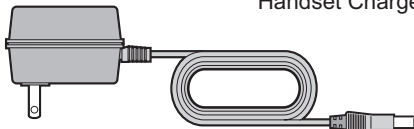
Handset Charger



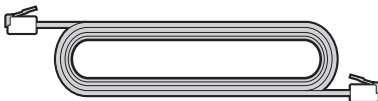
Belt Clip



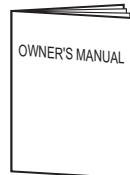
Battery Pack



AC Power Adapter

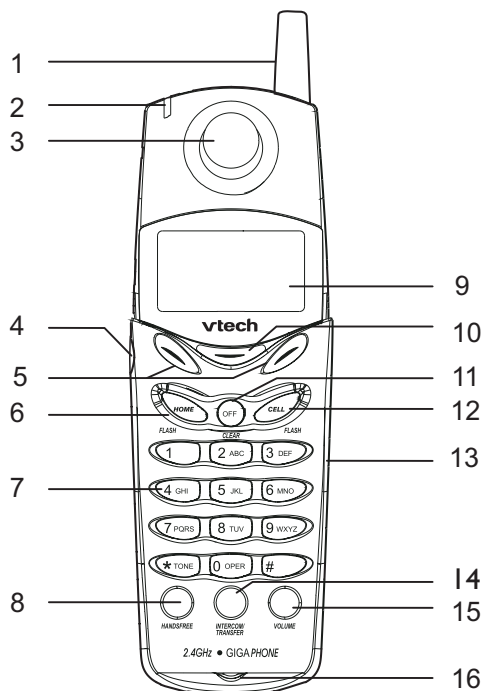


Telephone Line Cord



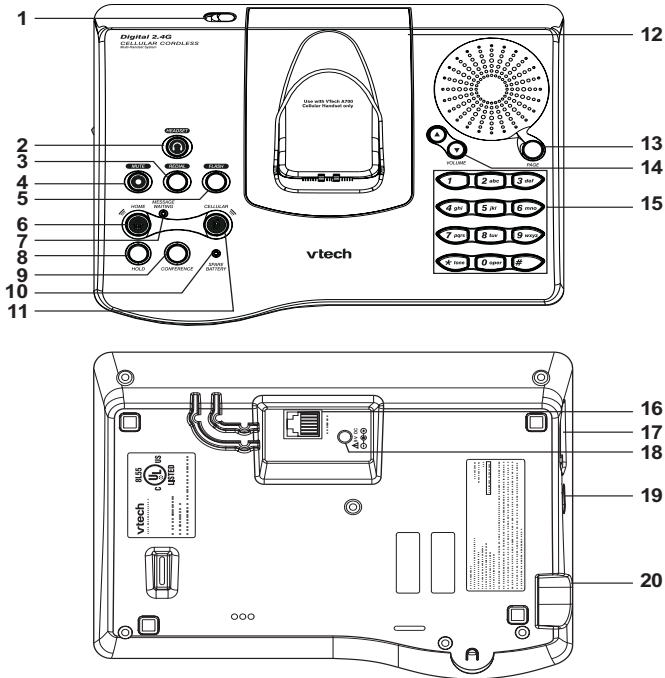
Owner's Manual

The Handset Layout



- | | |
|------------------------------|--|
| 1. Antenna | 9. LCD Display |
| 2. Message Waiting Indicator | 10. Menu/Function Softkey |
| 3. Earpiece | 11. Off (Clear) |
| 4. Headset Jack (2.5mm) | 12. CELL (Flash) |
| 5. Scroll/Function Softkeys | 13. Battery Compartment(back of Handset) |
| 6. HOME (Flash) | 14. Intercom/Transfer |
| 7. Dialing Keys(0-9,*,#) | 15. Volume |
| 8. Handsfree Speakerphone | 16. Microphone |

The Base Unit Layout



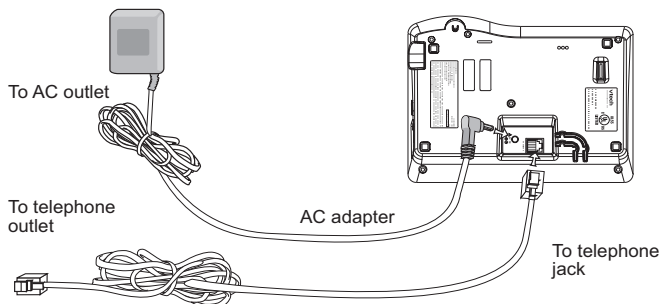
1. Cellular Adapter Release
2. Headset
3. Redial
4. Mute
5. Flash
6. HOME Line
7. Message Waiting LED
8. Hold
9. Conference
10. Spare Battery LED

11. CELLULAR Access
12. Cellular Adapter
13. Page
14. Volume Keys
15. Dialing Keys (0-9, *, #)
16. Home Line Jack
17. Spare Battery Drawer
18. DC Connector
19. Spare Battery Release
20. Headset Jack

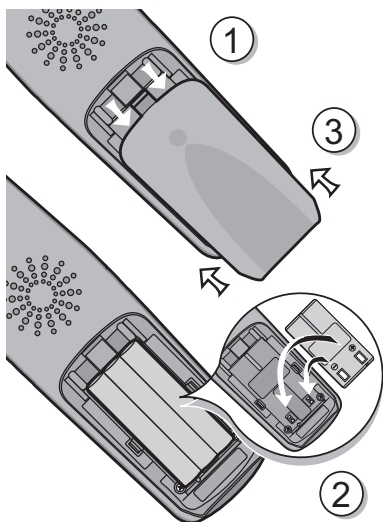
Setup

Connecting power to Base Unit/Handset Charger

1. Plug the AC power adapter into an electrical outlet, and the DC connector into the bottom of the Base Unit.



2. Choose the location for your Handset Charger, and plug its power supply into an electrical outlet.



Installation of Battery Pack in Handset

Follow the steps below:

1. Remove the battery cover by pressing on the indent and sliding downward.
2. Place the new battery pack in the Handset with the metal contacts aligned with the charge contacts in the battery compartment.
3. Replace the battery cover by sliding it upwards.
4. If the new battery pack is not already charged, place the Handset in its charger, and allow it to charge for 12 hours. After initial charge, a maintenance charge of 8 hours should be sufficient.

The original Handset that is shipped with your **VT20-2437** system will be automatically registered to the Base. This Handset is **HANDSET 1**.

As you register additional Handsets to the system, they will be assigned extension numbers in the following order: **HANDSET 2**, **HANDSET 3**, **HANDSET 4**, etc.

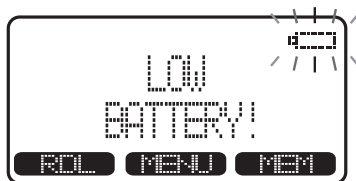
Whenever a charged Handset battery pack is installed, the Handset will automatically begin **SEARCHING FOR BASE** (if previously registered), or it will prompt you to **ENTER BASE ID** to register the new Handset. See **Registration and Operation** for details.

Charging Of Handset Battery Pack

The Handset of your **VT20-2437** cordless telephone is powered by a rechargeable battery pack. It charges automatically whenever the Handset is in its charger.

You should charge the battery pack for 12 hours when you first receive your phone. You'll know the battery pack needs charging when:

- The low battery message is displayed :
- The handset seems completely dead, the LCD is completely clear and does not activate when you press the keys.

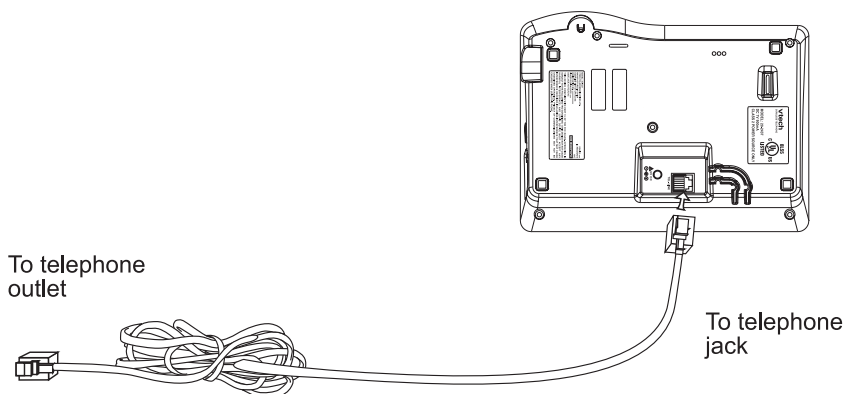


IMPORTANT:

1. Do not dispose of a battery pack in a fire, the cell may explode.
2. Do not open or mutilate the battery pack. Toxic substances may be released, causing harm to eyes or skin.
3. Exercise care in handling battery packs in order to prevent an accidental short of the charge contacts, potentially causing the battery pack to overheat.
4. Do not dispose of this battery pack into household garbage. Contact your local recycling organization for recommended disposal sites.

Connecting to the Telephone (HOME) Line

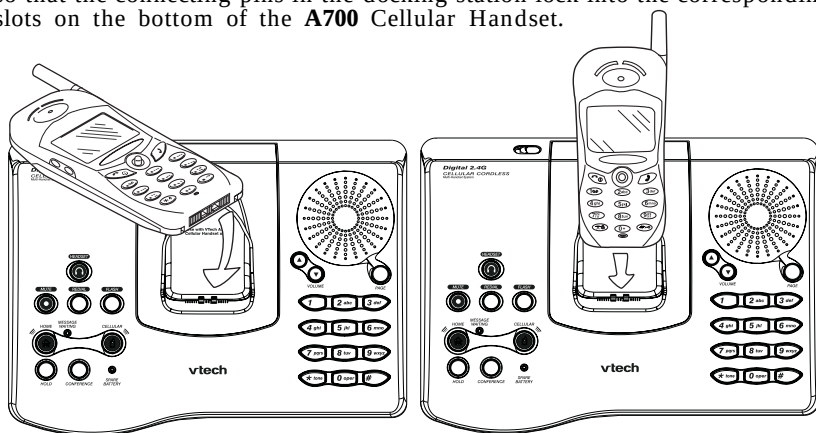
Connect the supplied modular phone cord between the wall jack and the jack located on the bottom of the Base Unit.



Setup

Installation of your Cellular Handset

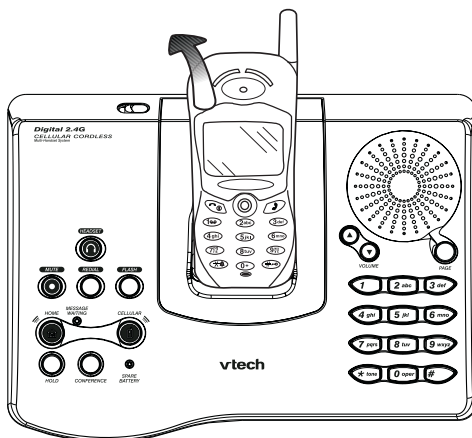
Carefully snap your **A700 Cellular Handset** into the Base Unit docking station. With the back of the cellular handset leaning against the back wall of the docking station, and the front of the **A700** facing you, slide the phone down, so that the connecting pins in the docking station lock into the corresponding slots on the bottom of the **A700 Cellular Handset**.



NOTE: Your **A700** must be docked in the Base Unit and turned **ON** in order to access any of the cellular features from your VT20-2437 Handset(s) or Base.

While your **A700** is docked in the Base Unit, its battery pack will automatically be charged. Notice the icon in the upper left corner of the screen, alternating between a **PLUG** and a **BATTERY**.

To remove your **A700** from its docking station, carefully tilt it toward you. The phone will release from the locked position.



Checking for Dial Tone

After the battery is charged, press **HOME** on the Handset. **PHONE ON** will appear on the Handset display, and you will hear dial tone. If not, see **In Case of Difficulty**.

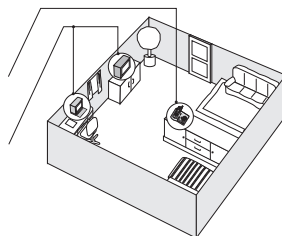
Tone/Pulse Selection

Your **VT20-2437** is set for **TONE** dialing. See **Handset and Base Settings-SELECT TONE/PULSE AT THE BASE UNIT** for details.

CAUTION: Use only the Vtech power supply provided with your cordless phone.

IMPORTANT: **FOR MAXIMUM PERFORMANCE OF YOUR** **CORDLESS TELEPHONE SYSTEM:**

1. Choose a central location for your Base Unit, making sure cellular reception is strong at your chosen location.
2. Install your Base Unit and Extension Handsets away from electronic equipment, such as personal computers, television sets and microwave ovens.
3. In locations where there are multiple cordless telephones, separate base units as much as possible.
4. Install your telephone equipment away from heat sources and sunlight.
5. Avoid excessive moisture, dust or extreme cold.



BEFORE USING YOUR HANDSET(S), CAREFULLY PEEL OFF THE PROTECTIVE FILM, COVERING THE DISPLAY.

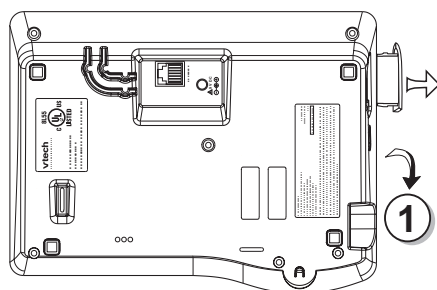
Spare Battery Charger/Power Backup Function

The **VT20-2437** uses the spare battery charger in the Base Unit to provide operational backup in the event of a power failure. With the a fully charged battery pack in the spare battery charger, you will still be able to place and receive calls from the Handset for up to one hour. You may want to use your cellular phone during the power outage in order to conserve battery life, for making and receiving calls on your **VT20-2437** using your **HOME** line.

The spare battery pack can also be used to replace a drained handset battery, ensuring uninterrupted use.

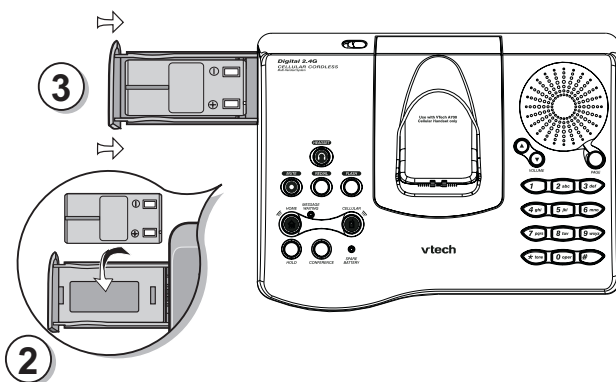
NOTE :

When using the **VT20-2437** during Power Backup mode, audio quality may be compromised due to reduced power availability. In addition, Base Speakerphone volume is limited to conserve battery life.



1. Open the spare battery charger by pressing the release button, located on the left-hand side of the Base Unit. A drawer will open to reveal the spare battery compartment.
2. Place a battery pack in the drawer with the charge contacts facing up and to the right.
3. Push the drawer closed.

The spare battery takes 24 hours to fully charge a drained battery.

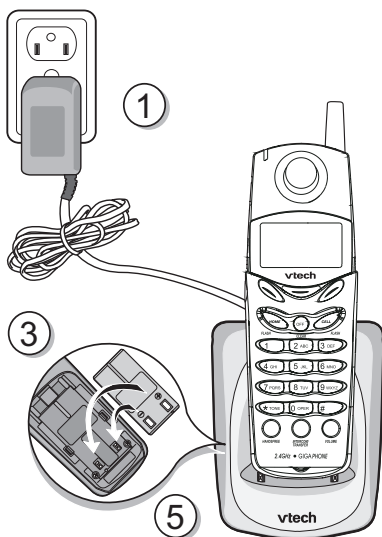
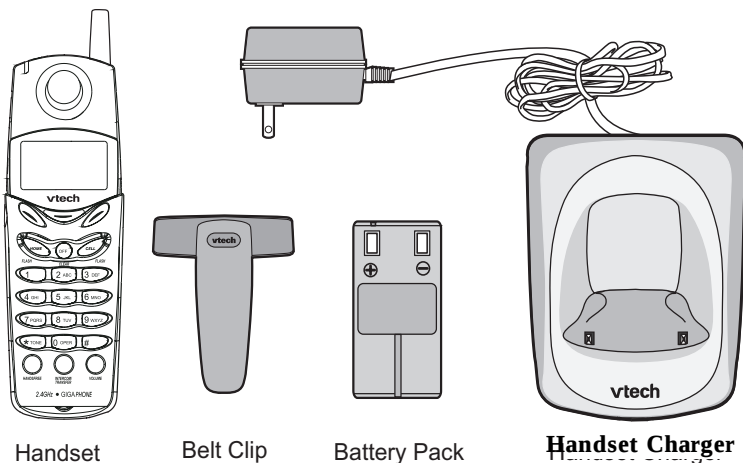


Registration and Operation

Registration And Operation Of The VTech VT20-2439 Accessory Handset

Your VTech **20-2437** system can register up to **8 Handsets**.

The VTECH accessory Handset consists of the following:



Setup Of The VT20-2439 Accessory Handset

1. Plug the AC power adapter into an electrical outlet.
2. Remove the Handset battery cover by pressing on the indent and sliding downward.
3. Place the new battery pack in the Handset, with the metal contacts aligned with the charge contacts in the battery compartment.
4. Replace the battery cover by sliding it upward.
5. Place the Handset in the Charge Cradle, and allow it to charge for 12 hours. After the initial charge, a maintenance charge of 8 hours should be sufficient.

Registration and Operation

NOTE: Your Handset that comes with the VT20-2437 system is registered to the Base at the factory. The following steps are for registration of additional Handsets (model# VT20-2439):

Enter Base ID Code into the Handset

1. After charging the Handset, remove it from its Charge Cradle; the screen will display:



alternating with this screen:



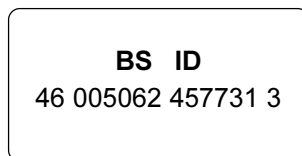
2. If, after charging the Handset, you see:



3. Press **NEW**. You will now see the **ENTER BASE ID** screen as described in step 1.

4. Find the **BASE ID Code**, located on the bottom of the Base Unit.

5. Enter the 15-digit **Base ID Code** into the **Handset**; then press **OK**.



6. Wait approximately 15 to 60 seconds. You will hear confirmation beeps from the Base and Handset. The newly registered Handset will now assign itself the lowest handset number not previously assigned to a different system Handset (1 through 8).



7. If the Handset displays **REJECTED BY BASE** or continues to display **SEARCHING FOR BASE** for well beyond 60 seconds, try the registration process again by repeating the above steps.

Note : Base ID codes are 15 digits long and can include the following characters : 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, * , or # .

Handset and Base Indicators

Handset Icons

Icon	Description
 	<u>In Use indicator</u> On steady when a parallel set is in use. On steady with one or more numbers next to it, indicating which extensions are using the line. For example, H 02 indicates that Base (0) and Handset 2 are on a call using the HOME line.
	<u>Intercom indicator</u> On steady with the extension numbers currently on an intercom call. For example,  02 indicates that the Base and Handset 2 are on an intercom call.
	<u>Battery indicator</u> (Only in Handset) Cycles (Low, Medium, and High) when Handset battery is charging. Flashes when a low battery condition is detected.
E	<u>Enhanced Mode indicator</u> On steady when active Handset is in Enhanced mode.
M	<u>Mute indicator</u> On steady when the Handset microphone is muted.
H	<u>Hold indicator</u> On steady when the line is on hold.
R	<u>Handset Registration indicator</u> (Only in Handset)  is displayed when a Handset is either not registered, or is searching for a Base unit.
	<u>Cell Phone in Data session</u> A registered Handset is accessing cell phone data (e.g., Address Book)

Handset and Base Indicators

Handset Lights

Light	Description
Message Waiting	Flashes to indicate that you have new messages in your voicemail. Service must be subscribed to through your local telephone company.

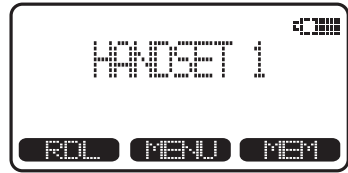
Base Lights

Light	Description
HOME Line Message Waiting	Flashes to indicate that you have new messages in your voicemail. Service must be subscribed to through your local telephone company.
Home	- Glow when HOME line is in use. - Slowly flashes when another telephone on the same line (parallel extension) is in use, or when the call is on hold. - Flashes rapidly to indicate an incoming call.
Cellular	- Glow when CELLULAR line is in use. - Slowly flashes when the call is on hold. - Flashes rapidly to indicate an incoming call.
Mute	Lights when Base microphone is muted.
Power/Power Backup	On when Base Unit is receiving power. - Flashes slowly when system is in Power Backup mode. - Blinks momentarily when a battery pack is installed in the Base Unit charger.
Headset	Lights when the Headset option is in use on the Base Unit.

Soft Menu Functions

The VT20-2437 has an advanced design that uses a menu structure and soft keys to access all of the built-in features.

Example of the idle mode display:



RDL (Redial) from the Handset

Press **RDL** to display the last 5 telephone numbers dialed. The number on the top line is the most recent number dialed.

- Use the  scroll keys to select the desired the number.
- To dial the number, you can simply press a **LINE** or the **HANDSFREE** key.
- You can erase a redial number by scrolling until it is highlighted, then press **SELECT**, and then **ERASE**.
- You can save a redial number to phone book memory by scrolling until it is highlighted, then press **SELECT**, and then press **SAVE**. Then add a NAME to your entry by following the instructions under **To Store a Number/Name**.

HANDSET MENU

With the Handset in the idle (OFF) mode, press the **MENU** key to access the following options:

- **CALL HISTORY (Caller ID)**
- **CELL CALLS LOG**
- **CELL PHONE BOOK**
- **HANDSET SETTINGS**
- **BASE SETTINGS**
- **REGISTER**

Use the  scroll keys to select the desired option, then press **OK**.

Press the **OFF/CLEAR** key to step back through the menu structure. Press and hold the **OFF/CLEAR** key to return to the idle menu.

Call History (Caller ID)

Caller ID - Call Waiting ID

Your VT20-2437 is capable of displaying the name and /or number of the party calling before you answer the phone (**Caller ID**). It is also capable of displaying Caller ID information in conjunction with a Call Waiting alert signal (**Call Waiting Caller ID**). With Call Waiting Caller ID, the Caller ID data is displayed so you can decide whether to answer the incoming call, or continue with your current conversation.

As new Caller ID/Call Waiting ID are received, your Handset displays will alert to the new, Caller ID records, for example:

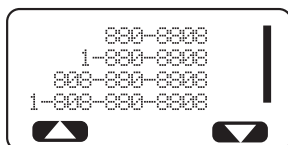
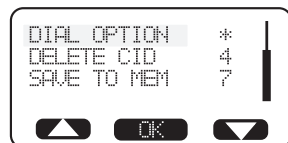


The number of new calls displayed on each system Handset may not be the same. If, for example, you answer a call on **Handset 2**, that Handset will not count the Caller ID information for that call as *new*. However, the other registered Handsets displays will consider it a *new call*, and add it to the **NEW CALLS** total.

After you review all new Caller ID records, the **NEW CALLS** status will no longer be displayed on that specific Handset.

The following information explains how to access Caller ID records(**Call History**):

- From the idle (OFF) mode, press **MENU**. **CALL HISTORY** is highlighted. Press **OK**. The Caller ID information of the most recent inbound call will be displayed:
- To view other Caller ID records, use the  scroll keys. You can scroll from newest to oldest record by using the scroll  key, or from oldest to newest by using the  scroll key.
- To dial the displayed number, press the desired **LINE** key.
- If you need to dial the number differently than how it is displayed, press **MENU**. **DIAL OPTION *** is highlighted. Press **OK**.
- Scroll to the desired dialing option, then press the desired **LINE** key to dial the phone number.



Call History (Caller ID)

DIAL OPTION SHORTCUT

With a Caller ID record displayed, press *****. The 4 possible dialing options are displayed. Scroll to the desired dialing option, then press **HOME** or **CALL** to dial.

You can also **delete** and **save** Caller ID records in the Directory:

DELETE

With a Caller ID record displayed, press **MENU**.

Scroll to **DELETE CID 4**. Press **OK**.

The CID record is displayed, with the choices **THIS** (delete only this record) and **ALL** (delete all CID records).

If you press **THIS**, the displayed CID records will be deleted, and you will hear a confirmation beep.

If you press **ALL**, the screen will ask you **Are You Sure?** If you're sure, press **YES**, and all CID records will be deleted. If you decide not to delete all CID records, press **NO**.

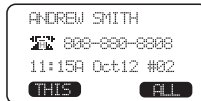
DELETE SHORTCUT

With a Caller ID record displayed, press **4**.

The CID record is displayed, with the choices **THIS** (delete only this record) and **ALL** (delete all CID records).

If you press **THIS**, the displayed CID records will be deleted, and you will hear a confirmation beep.

If you press **ALL**, the screen will ask you **Are You Sure?** If you're sure, press **YES**, and all CID records will be deleted. If you decide not to delete all CID records, press **NO**.



SAVE TO MEMORY

To save a displayed Caller ID record into the directory, press **MENU**.

Scroll to **SAVE TO MEM 7**. Press **OK**. -OR-

With the CID record displayed, press **7**. The record has been stored in the directory.

If the record you wish to save does not have a name (OUT OF AREA, for example), the screen will ask you to **PLEASE ENTER A NEW NAME**. Use the keypad to enter the name, then press **SAVE**. A guide to the letters and characters can be found in the section entitled **Memory**.

Handset and Base Settings

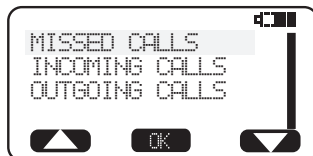
NOTES ABOUT CALLER ID & CALL WAITING CALLER ID

These are subscription services, provided by most regional telephone service providers. You must subscribe to these services to get the benefits of these features. If you do not subscribe to Caller ID services, you can still use your VT20-2437 and the other features it offers.

Due to regional incompatibilities, Caller ID information may not be available for every call you receive. In addition, the calling party may intentionally block their name and phone number from being sent.

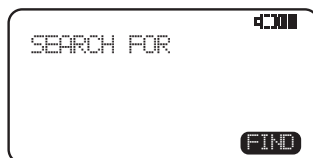
CELL CALLS LOG

Select this menu option to view calls made and received on the **CELLULAR** line. You can view:



CELL PHONE BOOK

With your cellular phone docked in the Base Unit adapter, you can access phone numbers stored in your cell phone's phone book memory from any Handset registered to your **VT20-2437** system.



After selecting **CELL PHONE BOOK** from the Handset menu, the screen will display:

Enter the first letter or letters of the entry you're searching for. If you make a mistake, press **CLR** to backspace. Then, press **FIND**.

With the desired entry displayed press **HOME** or **CELL** to dial.

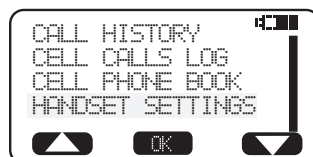
NOTE: Adjusting Handset and Base Settings affects the VT20-2437 Base and Handset(s). It does not affect the A700 Cellular Phone.

• RINGERS

NOTE: The Handset and Base ringers are adjusted separately. In addition, the **HOME** and **CELLULAR** lines are adjusted separately, as well.

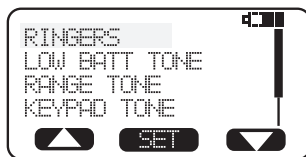
At the Handset:

Press **MENU**, then scroll to either **HANDSET** or **BASE SETTINGS**, then press **OK**.



Handset and Base Settings

RINGERS (or **BASE RINGERS**) will be highlighted. Press **SET**.



VOLUME :

Use to sample the choices of loudness. There are five: OFF, LOW, MEDIUM, MEDIUM-HIGH and HIGH. Press **OK** to confirm your selection.



MELODY :

Use to sample the six melodies. Press **SAVE** to confirm your selection.
Base Unit:

Press **MENU**, scroll to **BASE SETTINGS**, then press **OK**. Now follow the same procedure used for the Handset Ringers.

- **LOW BATT TONE (in HANDSET SETTINGS)**

Select this option to turn the Low Battery warning tone On or Off. Press the **OFF** or **ON** soft keys, to make your selection. Press **OK** to confirm your selection and return to the Handset Settings menu. When set to **ON**, the Handset will emit a warning tone when a Low Battery condition is detected. This feature has been preset to **ON** at the factory.

- **RANGE TONE (in HANDSET SETTINGS)**

Select this option to turn the Out of Range warning tone On or Off. Press the **OFF** or **ON** soft keys, to make your selection. Press **OK** to confirm your selection and return to the Handset Settings menu. When set to **ON**, the Handset will emit a warning tone whenever the Handset is taken out of range of the Base. This feature has been preset to **ON** at the factory.

- **KEYPAD TONE (in HANDSET and BASE SETTINGS)**

Select this option to turn the Keypad tones On or Off. Press the **OFF** or **ON** soft keys, to make your selection. Press **OK** to confirm your selection and return to the previous menu. When set to **ON**, a beep is heard whenever a key is pressed. This feature is preset to **ON**.

- **CONTRAST (in HANDSET SETTINGS)**

Select this option to adjust the contrast level of the Handset display. Use the scroll keys to make your selection. The handset display will automatically adjust as you make your selection. Press **OK** to confirm your selection and return to the Handset Settings menu.

Handset and Base Settings

• SET PULSE/TONE (in BASE SETTINGS)

- Scroll to **SET PULSE/TONE**, then press **SET**.
- Use the **UP** and **DOWN** arrow keys to highlight the desired dialing mode - **TONE** or **PULSE**. Press **OK** to confirm your choice.

NOTE: Your **VT20-2437** is preset for **TONE** dialing, the desired mode for most areas.

• ENHANCED MODE (in BASE SETTINGS)

Your **VT20-2437** has an enhanced feature, designed to improve sound quality and range. If you are using your **VT20-2437** in an area with interference, the Enhanced Mode feature can help to improve both the sound quality and operating range. Actual range will depend on your environment. You can manually turn Enhanced Mode **ON** and **OFF**, or select **AUTO** mode.

To select the Enhanced Mode setting:

With the Handset in the idle (on hook) mode, press **MENU**.

Scroll to **BASE SETTINGS**, then press **OK**.

Scroll to **ENHANCED MODE**, then press **SET**.

Select **ON** to enable Enhanced Mode. When the Handset is in use, an 'E' icon will appear in the upper left corner of the display, indicating that this feature is active.

Select **OFF** to disable Enhanced Mode.

Select **AUTO** to allow your **VT20-2437** Handset to activate this feature automatically, when conditions warrant it. Your **VT20-2437** is reset at the factory for **AUTO** mode.

Scroll to the desired setting, then press **OK**.

NOTE: When Enhanced Mode is activated, your **VT20-2437** will consume more battery power. This means the standby and talk time of your Handset(s) will be shorter.

• RENAME (in HANDSET SETTINGS)

Naming Your Handset(s)

You can personalize each Handset, giving it a name (Dad's Phone, or Mary's Office, for example) instead of **HANDSET 1**, etc.

With the Handset in the idle (on hook) mode:

- Press **MENU**.
- Scroll to **HANDSET SETTINGS**, then press **OK**.

Handset and Base Settings

- Scroll to **RENAME**, then press **SET**.
- Using the dialing keys, enter the desired name. A guide to the letters and characters can be found in the section entitled **Memory**. The  softkey will move the cursor to the right. Press **MORE** to give you the **DEL** (delete) and **SPACE** options. Press **BACK** to return to the previous screen.
- Press **SAVE** to confirm your Handset name.



Handset Deregistration (in Base Settings)

You can deregister all Handsets at one time. This causes the Base Unit to ‘forget’ that it has any Handsets at all. You may never have to perform this procedure. One possible reason for deregistration is if you have the maximum number of Handsets (8) registered to your Base, and one Handset should require replacement, the Base will not register the ‘new’ Handset, because its eight memory slots are occupied. The deregistration procedure will clear the Base Unit’s memory, and you will be able to register each Handset again. Individual Handsets cannot be deregistered.

CAUTION: Once you deregister, your Handsets will not be capable of making or receiving calls. You will still be able to use the Base Speakerphone. You will need to re-register each Handset, one at a time!!

To Deregister all Handsets:

- Using a Handset, in the idle (OFF) mode, press **MENU**.
- Scroll down to **BASE SETTINGS**, then press **OK**.
- Scroll down to **DEREGISTER ALL**, then press **SET**.

All system Handsets have been deregistered. To register your Handsets again, see **Registration and Operation**, located in the **Getting Started** section of the User’s Manual, for details.

Memory

Memory

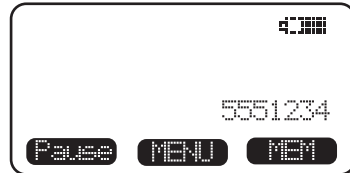
Each Handset can store up to 50 names/numbers in memory. Each memory location can hold up to 32 digits and up to 16 characters for the name.

When prompted to **ENTER NAME**, use the digit keys to 'spell' the name. Each press of a particular key causes characters to be displayed in the following order:

Number Key	Characters (in order)
1	& ' , . 1
2	A B C a b c 2
3	D E F d e f 3
4	G H I g h i 4
5	J K L j k l 5
6	M N O m n o 6
7	P Q R S p q r s 7
8	T U V t u v 8
9	W X Y Z w x y z 9
0	0
*	*
#	#

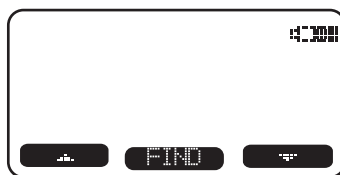
To Store a Number/Name:

- Starting from the idle screen, enter the number you want to store in memory. If you make a mistake, press **CLEAR** to backspace.
- Be sure to include long distance codes and pauses, (using the **Pause** softkey) if necessary. Press the **MEM** softkey.
- You will then be prompted to **ENTER NAME**. Use the digit keys to 'spell' the name. If you make a mistake, press the **CLR** softkey. To enter a space press **▶**. When finished, press **SAVE**.
- If there is space available in memory, the number/name will be saved and the Handset will return to idle mode.
- If the memory is full the Handset will display **PHONEBOOK IS FULL** and exit to the idle screen without saving the entry.

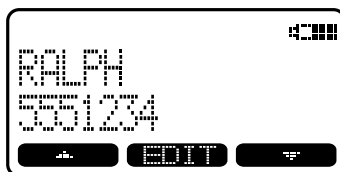


To Search For and Dial a Number/Name:

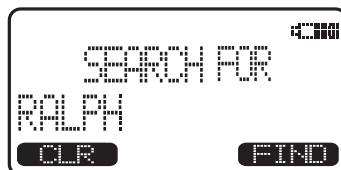
- Starting from the idle screen, press the **MEM** softkey to review memory contents.



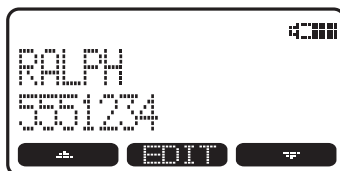
- Using the  /  softkeys scroll through the memory contents in alphabetical order.



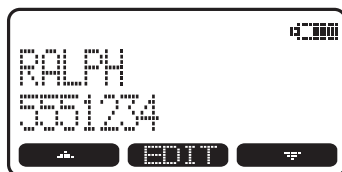
- Or, you can press the **FIND** softkey, enter the first few characters of the name and then press **FIND** to search. If you make a mistake, press **CLR** softkey. The closest match, in alphabetical order, will be displayed.



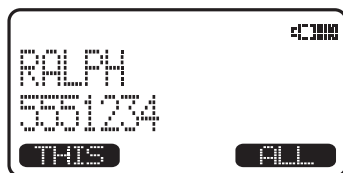
- Once you find the entry you want, simply press a **LINE** key or **HANDSFREE** to dial the number.

**To Delete a Number/Name:**

- Using the steps in **To Search For and Dial a Name/Number**, locate the entry you want to delete.
- Press the **EDIT** softkey. The Handset will display:

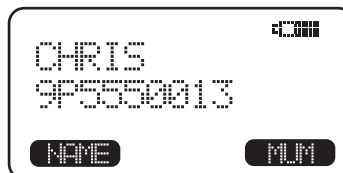
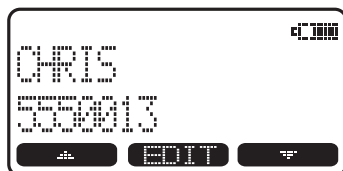


- Press the **DEL** softkey. The Handset will display:
- To delete this record, press **THIS**.
- To confirm the deletion of **ALL** records, press **YES**. To exit without deleting press **NO**.



To Edit a Number/Name

- Using the steps in **To Search For and Dial a Number/Name**, locate the entry you want to edit.
- Press the **EDIT** softkey **twice**. The Handset will display:
- Select **NAME** or **NUM**. Using the  softkey move the cursor to the character you want to edit and then enter the corrections as needed. Press **MORE** to access **DEL**, **BACK** and **PAUSE/SPACE** functions. When finished press the **SAVE** softkey. To exit without saving press **OFF**.
- When finished the handset will display the edited entry.



Handset and Base Operation

Making Calls on the HOME line

From the Handset

- Press **HOME** (or, **HANDSFREE** to use the Handset Speakerphone feature).
- Dial the phone number.
- OR-
- Dial the phone number first; then press **HOME** or **HANDSFREE**.



From the Base Unit

- Just like the Handset, you can either access a dial tone first, then dial your number, or you can dial your number first, then press **HOME**.

Making Calls on the Cellular Line

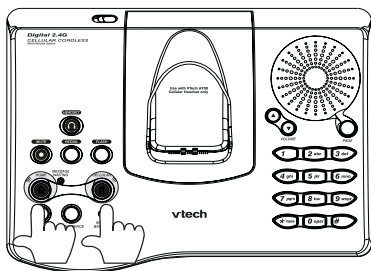
NOTE: Your cellular phone must be docked in the Base Unit and turned on!

From the Handset

- Dial the phone number **first**, then press the **CELL** key.

From the Base Unit

- Dial the phone number **first**, then press the **CELLULAR** key.



Handset and Base Operation

Redial from the Handset

Each system Handset will remember the last 5 phone numbers dialed. From the *idle* mode, press **RDL**. Scroll until the desired phone number is highlighted. Then press the appropriate **LINE** key to dial the number (follow the above instructions in **Making Calls**).

You can also **delete** and **save** 'redial' numbers in the **Directory**.

ERASE

Press **RDL**. Scroll to the desired phone number, press **SELECT**, then press **ERASE**.

SAVE

Press **RDL**. Scroll to the desired phone number, press **SELECT**, then press **SAVE**.

You'll then be prompted to **ENTER NAME**. Use the keypad to enter the letters of the name. If you make a mistake, press **CLR** to backspace. To insert a space, press **⏏**. When finished, press **SAVE**.

For more information on entering phone numbers into the Directory, see the section entitled **Memory**.

Redial from the Base Unit

The **VT20-2437** Base Unit stores the last phone number dialed from it.

- Press **REDIAL**, then press the desired **LINE** key.

Answering Calls

From the Handset

Press the appropriate **LINE** key, or **HANDSFREE** to use the Handset Speakerphone option.

If the Handset is active on one line when the idle line rings, you will hear a special alert tone, signifying an inbound call. This alert is designed to minimize disruption of the call in progress. You can then:

- Press **OFF** twice to end the first call, then answer the new call;
- **or** -
- Press the appropriate **LINE** key to answer the new call. The original call will automatically be placed on **HOLD**. You can end the 'new' call by pressing **OFF**, then return to the original call by pressing the appropriate **LINE** key.

You can also Conference both lines together. See **Conference Calling**, further on in this User's Manual.

From the Base Unit

If the line is ringing, pressing the appropriate **LINE** key will answer the inbound call.

Press the **LINE** key to end your call.

Handset and Base Operation

If the Base is active on one line when the idle line rings, you will hear a special alert tone, signifying an inbound call. This alert is designed to minimize disruption of the call in progress. You can then:

- Press the active **LINE** key to end the first call, then answer the new call;
- or -
- Press the **HOLD** to place the original call on hold. After that, press the appropriate **LINE** key to answer the new call. You can end the 'new' call by pressing the active **LINE** key. Return to the original call by pressing the appropriate **LINE** key.

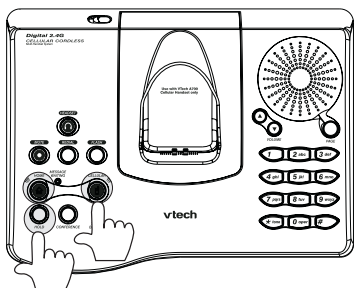
You can also Conference both lines together . See **Conference Calling**, further on in this User's Manual.

Mute Function



During an active call pressing either the **MUTE** soft key on the Handset or the **MUTE** key on the Base (when in Speakerphone or Headset mode), will disable the microphone. Press **MUTE** key again to return to normal 2-way conversation.

Hold Function



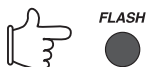
From the Handset :

- Press the **HOLD** soft key to place a call on hold. To return to the call press the **LINE**.

From the Base :

- During an active call, press **HOLD** to place a call on hold. The **LINE** key will flash to indicate a call is on hold.
- To return to the call, press the appropriate **LINE** key.

Flash Function



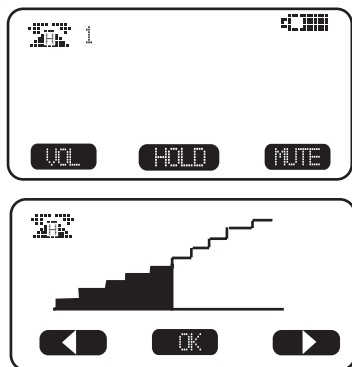
You can use your **VT20-2437** with services such as call waiting. Simply press the **LINE** key on the Handset or the **FLASH** key on the Base to flash the line.

Handset and Base Operation

How to adjust the Handset Volume (also applies to the Handset Speakerphone)

NOTE: The Handset must be IN USE to adjust the volume

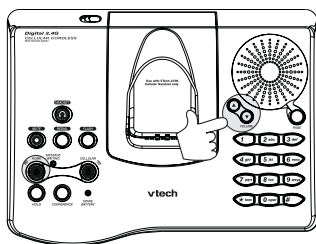
There are 2 ways to adjust Handset volume



- Press the **VOLUME** key, located directly below the lower left corner of the display.
- Use the keys directly below the **[F] / [E]** symbols on the display or the **VOLUME** key to raise or lower the Handset volume. Notice the change in the display graph as you adjust the volume. An increase in volume will be represented by an increase in shaded area on the graph. A decrease in volume will result in a reduction of the shaded area.
- Press the **OK** key (top, center) to confirm your adjustment.

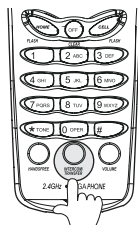
-OR-

Press the **VOLUME** soft key, located on the lower right edge of the Handset. Repeated pressing of the **VOLUME** key will cycle through the 5 volume levels. A rapid succession of beeps indicates you have reached the maximum or minimum volume setting.



Base Speakerphone or Headset Volume

- During an active call simply press the Volume **UP** or **DOWN** keys to adjust the Speakerphone or Headset volume.



Intercom Function (from the Handset)

Press **INTERCOM/TRANSFER** on any registered Handset.

The screen will display your options, for example:

BASE

HANDSET 1

HANDSET 2

HANDSET 3

GLOBAL PAGE *

Handset and Base Operation

Highlight the desired destination of your **intercom** then press **OK**. Your screen will display **CALLING HANDSET __**, **CALLING BASE**, or **PERFORMING GLOBAL PAGE**.

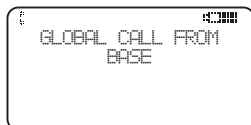
The recipient's screen will display **INTERCOM FROM HANDSET 1**, or **GLOBAL CALL FROM HANDSET 1**.

The recipient presses **INTERCOM/TRANSFER** to engage in conversation with the person initiating the page.

NOTE: When you initiate a GLOBAL PAGE, the first recipient to respond by pressing **INTERCOM/TRANSFER** will be able to talk to you via the intercom. Others can join the ongoing intercom call by calling one of the parties involved in the intercom. The unit beeps whenever a party joins an ongoing call.

Global Page from the Base Unit

Press **PAGE** on the Base Unit to page all registered Handsets. All Handsets will display:



Press **INTERCOM/TRANSFER** on the Handset to engage in an Intercom call with the Base.

Transferring Calls

You can transfer calls on the **VT20-2437** system from Handset to Handset, or Handset to Base.

Blind Transfer

You can directly transfer any active call from a Handset to another **VT20-2437** extension without notification by doing the following steps:

- Handset must be on an active call.
- Press the **INTERCOM/TRANSFER**; scroll to the desired destination of your transfer. Then press **OK**.
- When the designated extension answers, the call will automatically be connected to that extension.
- An unanswered call will ring back to the originating Handset if not answered within 30 seconds.

Announced Transfer:

You can perform an announced transfer (call and advise another extension) of an active call by doing the following steps:

- Handset must be on an active call.
- Place the active call on **HOLD**.
- Press the **INTERCOM/TRANSFER**; scroll to the desired destination of your transfer. Then press **OK**.
- When the other extension answers the intercom call, explain they have an active call waiting.
- Both extensions press **OFF** to end the intercom call.

Handset and Base Operation

- The other extension presses the **LINE** key, **HANDSFREE** or **SPEAKERPHONE** to pick up the call on hold.

Handsfree Speakerphone Operation

Your **VT20-2437** Handset has a built-in handsfree Speakerphone. This feature allows you to stand the Handset upright on a table or desktop and have handsfree conversations. For more information, refer to **MAKING CALLS in HANDSET AND BASE OPERATION**.

Switching from the Handset Earpiece to Handsfree

While on a call using the Handset earpiece, press **HANDSFREE** on the lower left portion of the Handset.

To return to the Handset earpiece, press **HANDSFREE** again.

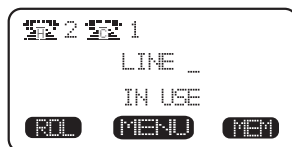
Base Speakerphone Operation

The Base of your **VT20-2437** system is equipped with a duplex Speakerphone. This is a very useful feature for handsfree conversations or conference calls at the base unit. For more information, refer to **MAKING CALLS in HANDSET AND BASE OPERATION**.

Line in Use Indication

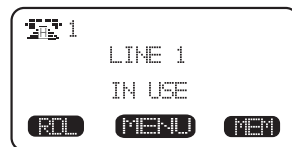
Active (off-hook) Handsets:

During a call, the Handset screen will display, in the upper left corner, the **LINE** icon(s) and the **HANDSET/BASE** number(s) (1 – 8; 0 for the Base) currently in use.



Idle (on-hook) Handsets:

During a call, the idle Handset(s) will display:



When one or both lines are currently in use by a parallel set (a telephone device other than your **VT20-2437** system), all registered Handsets will display:



When both lines are in use at the same time, the **L_EXTENSION IN USE** message will alternate between **1** and **2**.

Handset and Base Operation

Low Battery Indication

When a low battery is detected, the Battery icon will flash and a warning beep is played. The status message **LOW BATTERY** will also be displayed when the Handset is in idle mode. To prevent an unexpected call drop, a drained Handset battery should be replaced by a fully charged spare battery.

Message Waiting Indication

The **VT20-2437** is compatible with optional voicemail service provided by some local telephone companies. If you subscribe to this service, and you have new, unplayed messages in your voicemail, a Visual Message Waiting Indicator (VMWI) signal is transmitted by your local telephone company.

The **20-2437** will detect a VMWI signal and activate the Message Waiting lights on the Base and Handset.

After you check your messages, the Message Waiting indicators will automatically turn off.

Please note that whenever new, unplayed messages are stored in your voicemail, the local Telephone Company will continue to send a VMWI signal.

Conference Calling

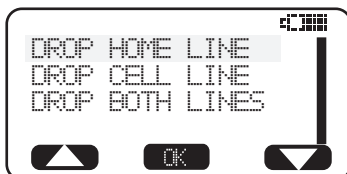
The **VT20-2437** is capable of supporting the conferencing of up to three Handsets, the **HOME** line, the **CELLULAR** line and the Base Speakerphone, on one or more conference calls.

To enter a conference call, simply access the line with two or more extensions by pressing a **LINE** key (or **HANDSFREE** on the Handset).

The **LINE** icon and the extension numbers of all participants will be displayed in the upper left corner of the Handset .

2-LINE Conference Calls (Handset or Base)

- Make or answer a call on the **HOME** or **CELL** Line. Place the call on Hold.
- Make or answer a call on the other line. Press **CONF**. You and your parties on the **HOME** and **CELL** Lines are now on a 3-way call.
- Press the **HOME** or **CELL** on the Base Unit or any system Handset to join the Conference call.
- To drop a line from the Conference Call, press **DROP** on the Handset. Your screen will display:



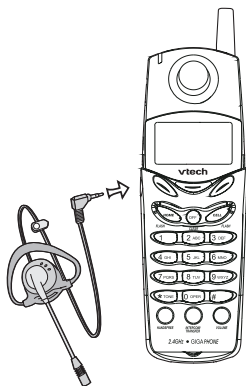
- Scroll to the desired option, then press **OK**.

Headset Operation

Your **VT20-2437** Handset is equipped with a 2.5mm Headset Jack for use with an optional accessory Headset for hands-free operation. If you choose to use the Headset option, you must obtain an optional accessory Headset, which is compatible with the **VT20-2437**.

To purchase a Headset, call VTECH Customer Service at 1-800-595-9511.

Once you have a compatible 2.5mm Headset, locate the Headset Jack on the **VT20-2437** Handset. Connect the plug on the Headset cord to the jack on the cordless Handset. The plug should fit securely. Do not force the connection.

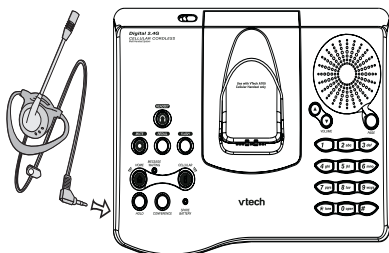


Headset Operation connected to the Handset

NOTE :

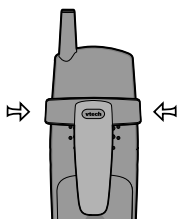
Whenever a compatible Headset is connected to the cordless Handset, the microphone on the Handset will be muted. This is done to limit the effect of background noise.

Many compatible Headsets have a reversible, monaural design. You can wear your Headset on either ear, leaving one ear free for room conversation.



Headset Operation connected to the Base Unit

The same type of Headset can be connected to the Base Unit. Facing the Base, the Headset jack can be found on the left front edge. When using a Headset attached to the Base, calls are made and answered by pressing the **HEADSET**, then the **LINE** key. The **LINE** key is also used to end your call. The Base Speakerphone and Base Headset cannot be used simultaneously. However, you can switch between the two modes without disconnecting your Headset.



Belt Clip

The **VT20-2437** is also equipped with a detachable belt clip. Align the pins on the inside edge of the clip with the notches on the sides of the **VT20-2437** Handset. The belt clip should snap securely into place. Do not force the connection.

Taking Care Of Your Telephone

Your **VT20-2437** cordless telephone contains sophisticated electronic parts, so it must be treated with care.

Avoid rough treatment

Place the Handset down gently. Save the original packing materials to protect your telephone if you ever need to ship it.

Avoid water

Your telephone can be damaged if it gets wet. Do not use the Handset outdoors in the rain, or handle it with wet hands. Do not install your Base Unit near a sink, bathtub or shower.

Electrical storms

Electrical storms can sometimes cause power surges harmful to electronic equipment.

For your own safety, use caution when using electric appliances during storms.

Cleaning your telephone

Your telephone has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or a mild soap. Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If your Base Unit should fall into water, **DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORD AND TELEPHONE LINE CORDS FROM THE WALL.** Then pull the unit out by the unplugged cords.

In Case Of Difficulty

If you have difficulty operating your phone, the suggestions below should solve the problem. If you still have difficulty after trying these suggestions, call VTECH Communications at 1-800-595-9511. In Canada, call VTECH Electronics at 1-800-267-7377.

The Phone Doesn't Work At All

- Make sure the Power Cord is plugged in.
- Make sure the telephone line cord is plugged firmly into the Base Unit and the telephone wall jack.
- Make sure the batteries are properly charged. If the 'LOW BATTERY' message is shown, the battery pack needs charging.
- Is the Handset registered to the Base? See Registration and Operation.

No Dial Tone

- First check all the suggestions above.
- If you still don't hear a dial tone, disconnect the Base Unit from the telephone jack and connect a different phone. If there is no dial tone on that phone either, the problem is in your wiring or local service. Contact your local telephone company.

You Get Noise, Static, Or A Weak Signal Even When You're Near The Base Unit

- Household appliances plugged into the same circuit as the Base Unit can sometimes cause interference. Try moving the appliance or the Base Unit to another outlet.

You Get Noise, Static, Or A Weak Signal When You're Away From The Base Unit

- You may be out of range. Either move closer to the Base, or relocate the Base Unit.
- The layout of your home may be limiting the range. Try moving the Base Unit to another position.

The Handset Does Not Ring When You Receive A Call

- Make sure you have the Handset ringer activated. To set the ringer, see HANDSET SETTINGS and BASE SETTINGS.
- Make sure the telephone line cord is plugged firmly into the Base Unit and the telephone jack. Make sure the power cord is plugged in.
- You may be too far from the Base Unit.
- You may have too many extension phones on your telephone line to allow all of them to ring. Try unplugging some of the other phones.

In Case Of Difficulty

You Hear Other Calls While Using Your Phone

- Disconnect your Base Unit from the telephone jack, and plug in a regular telephone. If you still hear other calls, the problem is probably in your wiring or local service. Call your local telephone company.

You Hear Noise In The Handset, And None Of The Keys Or Buttons Work

- Make sure the power cord is plugged in.

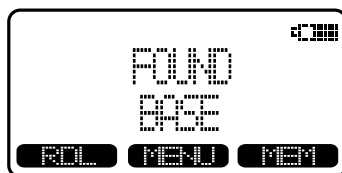
Common Cure For Electronic Equipment

If the unit does not seem to be responding normally, then try putting the Handset in the cradle. If it does not seem to respond, do the following (in the order listed) :

1. Disconnect the power to the Base.
2. Disconnect the Handset battery, and spare battery pack, if applicable.
3. Wait a few minutes.
4. Connect power to the Base.
5. Re-install the battery pack (s)
6. Watch for Handset to display :



then



Warranty Statement

What does this limited warranty cover?

- The manufacturer of this **VTECH** product, **VTECH Communications**, warrants to the holder of a valid proof of purchase (“Consumer” or “you”) that the product and all accessories provided by **VTECH** in the sales package (“Product”) are free from material defects in material and workmanship, pursuant to the following terms and conditions, when installed and used normally and in accordance with operation instructions. This limited warranty extends only to the Consumer for Products purchased and used in the United States of America.

What will VTECH Communications do if the Product is not free from material defects in materials and workmanship during the limited warranty period (“Materially Defective Product”)?

- During the limited warranty period, VTECH’s authorized service representative will repair or replace at VTECH’s option, without charge, a Materially Defective Product. If we repair this product, we may use new or refurbished replacement parts. If we choose to replace this product, we may replace it with a new or refurbished product of the same or similar design. VTECH will return repaired or replacement products to you in working condition. VTECH will retain defective parts, modules, or equipment. Repair or replacement of Product, at VTECH’S option, is your exclusive remedy. You should expect the repair or replacement to take approximately 30 days.

How long is the limited warranty period ?

- The limited warranty period for the product extends for ONE(1)YEAR from the date of purchase if we repair or replace a Materially Defective Product under the terms of this limited warranty. This limited warranty also applies to repaired or replacement Products for a period of either (a) 90 days from the date the repaired or replacement Product is shipped to you or (b) the time remaining on the original one-year warranty; whichever is longer.

What is not covered by this limited warranty ?

This limited warranty does not cover

1. Product that has been subjected to misuse, accident, shipping or other physical damage, improper installation, abnormal operation or handling, neglect, inundation, fire, water or other liquid intrusion; or
2. Product that has been damaged due to repair, alteration or modification by anyone other than an authorized service representative of VTECH; or
3. Product to the extent that the problem experienced is caused by signal conditions, network reliability or cable or antenna systems; or
4. Product to the extent that the problem is caused by use with non-VTECH electrical accessories; or
5. Product whose warranty/quality stickers, Product serial numbers plates or

Warranty Statement

electronic serial numbers have been removed, altered or rendered illegible;
or

6. Product purchased, used, serviced, or shipped for repair from outside the United States, or used for commercial or institutional purposes (including but not limited to Products used for rental purposes); or
7. Product returned without valid proof of purchase (see 2 below); or
8. Charges for installation or set up, adjustment of customer controls, and installation or repair of systems outside the unit.

How do you get warranty service?

- To obtain warranty service in the United States of America, call 1 800-595-9511 for instructions regarding where to return the Product. Before calling for service, please check the user's manual. A check of the Product controls and features may save you a service call.
- Except as provided by applicable law, you assume the risk of loss or damage during transit and transportation and are responsible for delivery or handling charges incurred in the transport of Product(s) to the service location . VTECH will return repaired or replaced product under this limited warranty to you, transportation, delivery or handling charges prepaid .VTECH assumes no risk for damage or loss of the Product in transit.
- If the Product failure is not covered by this limited warranty, or proof of purchase does not meet the terms of this limited warranty, VTECH will notify you and will request that you authorize the cost of repair prior to any further repair activity. You must pay for the cost of repair and return shipping costs for the repair of Products that are not covered by this limited warranty.

What must you return with the Product to get warranty service?

1. Return the entire original package and contents including the Product to the VTECH service location along with a description of the malfunction or difficulty;
2. Include "valid proof of purchase" (sales receipt) identifying the Product purchased (Product model) and the date of purchase or receipt; and
3. Provide your name, complete and correct mailing address, and telephone number.

Other Limitations

- This warranty is the complete and exclusive agreement between you and VTECH. It supersedes all other written or oral communications related to

Warranty Statement

this Product. VTECH provides no other warranties for this product. The warranty exclusively describes all of VTECH's responsibilities regarding the product. There are no other express warranties. No one is authorized to make modifications to this limited warranty and you should not rely on any such modification.

State Law Rights: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Limitations: Implied warranties, including those of fitness for a particular purpose and merchantability (an unwritten warranty that the product is fit for ordinary use) are limited to one year from date of purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

- In no event shall VTECH be liable for any indirect, special, incidental, consequential, or similar damages (including, but not limited to lost profits or revenue, inability to use the product, or other associated equipment, the cost of substitute equipment, and claims by third parties) resulting from the use of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

FCC and IC Regulations

This equipment complies with Parts 15 of the Federal Communications Commission (FCC) rules for the United States. It also complies with regulations RSS210 and CS-03 of Industry and Science Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

A label is located on the underside of the Base Unit containing either the FCC registration number and Ringer Equivalence Number (REN) or the IC registration number and Load Number. You must, upon request, provide this information to your local telephone company.

This equipment is compatible with inductively coupled hearing aids.

Should you experience trouble with this telephone equipment, please contact:

VTech Communications Inc.

CUSTOMER SERVICE at 1-800-595-9511. In Canada, call VTECH Electronics at 1-800-267-7377.

For repair/warranty information. The telephone company may ask you to disconnect this equipment from the line network until the problem has been corrected.

FCC Part 15

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The equipment has been tested and found to comply with part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet or on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC and IC Regulations

FCC and ACTA Information

If this equipment was approved for connection to the telephone network prior to July 23,2001, it was registered with the Federal Commissions (FCC) in accordance with Part 68 of its rules. If the equipment was approved after that date, it complies with the Part 68 rules and with Technical Requirements for Connection of Equipment to the Telephone Network adopted by the Administrative Council for Terminal Attachments (ACTA). We are required to provide you with the following information.

1. Connection and use with the nationwide telephone network

The plug and jack used to connect this equipment to the premises wiring and the telephone network must comply with the applicable Part 68 rules and technical requirements adopted by ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. An RJ11 jack should normally be used for connecting to a single line and an RJ14 jack for two lines. See Installation Instructions in the user's manual. This equipment may not be used with Coin Telephone Lines or with Party Lines.

2. Product identifier and REN information

The label on the back or bottom of this equipment contains, among other things, an identifier indicating product approval and the Ringer Equivalence Number (REN). This information must be provided to your local telephone company upon request. For equipment approved prior to July 23,2001, the product identifier is preceded by the phrase "FCC Reg No." and the REN is listed separately. For equipment approved after that date, the product identifier is preceded by "US" and a colon (:), and the REN is encoded in the product identifier as the sixth and seventh characters following the colon. For example, the product identifier US: AAAEQ03T123XYZ would indicate an REN of 0.3.

The REN is used to determine how many devices you may connect to your telephone line and still have them ring when you are called. In most , but not all areas, the sum of all RENS should be five (5.0) or less. You may want to connect your local telephone company for more information.

3. Repair instructions

If the equipment is malfunctioning, it must be unplugged from the modular jack until the problem has been corrected. Repairs to this telephone equipment can only be made by the manufacturer or its authorized agents. For repair procedures, follow the instructions outlined under the Limited Warranty.

4. Rights of the telephone company

If this equipment is causing harm to the telephone network, the telephone company may temporarily discontinue your telephone service. The telephone company is required to notify you before interrupting service. If advance notice is not practical, you will be notified as soon as possible. You will be given the opportunity to correct the problem and the telephone company is required to inform you of your right to file a complaint with the FCC. Your telephone company may make changes in facilities, equipment, operation, or procedures that could affect the proper functioning of this product. The telephone company is required to notify you if such changes are planned.

FCC and IC Regulations

5. Hearing aid compatibility

If this product is equipped with a corded or cordless handset, it is hearing aid compatible.

6. Programming/testing of emergency numbers

If this product has memory dialing locations, you may choose to store police, fire department and emergency medical service telephone number in this locations. If you do, please keep three things in mind:

a. We recommend that you also write the telephone number on the directory card, so that you can still dial the emergency number manually if the memory dialing feature doesn't work.

b. This feature is provided only as a convenience, and the manufacturer assumes no responsibility for customer reliance upon the memory feature.

c. Testing the emergency telephone numbers you have stored is not recommended. However, if you do make a call to an emergency number:

- You must remain on the line and briefly explain the reason for the call before hanging up.
- Programming/testing of emergency numbers should be performed during off-peak hours, such as in the early morning or late evening, when the emergency services tend to be less busy.

IC (Industry Canada)

This telephone is registered for use in Canada.

Notice:

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

Notice:

The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of services in some situations.

Repairs to certified equipment should be made by an authorized Canadian

FCC and IC Regulations

maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution :

Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

Your **VT20-2437** is designed to operate at the maximum power allowed by the FCC and IC. This means your Handset and Base Unit can communicate only over a certain distance - which will depend on the location of the Base Unit and Handset, weather, and the construction and layout of your home or office.

The RBRC® Seal



The RBRC® Seal on the nickel-cadmium battery indicates that VTech Communications, Inc. is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful lives, when taken out of service within the United States and Canada.

The RBRC® program provides a convenient alternative to placing used nickel-cadmium batteries into the trash or municipal waste, which may be illegal in your area.

VTech's participation in RBRC® makes it easy for you to drop off the spent battery at local retailers participating in the RBRC® program or at authorized VTech product service centers. Please call **1-800-8-BATTERY™** for information on

Ni-Cd battery recycling and disposal bans/restrictions in your area. VTech's involvement in this program is part of its commitment to protecting our environment and conserving natural resources.

RBRC® is a registered trademark of Rechargeable Battery Recycling Corporation.

Technical Specifications

FREQUENCY CONTROL

Crystal controlled
PLL synthesizer

TRANSMIT FREQUENCY

2401.056 - 2481.408 MHz

RECEIVE FREQUENCY

2401.056 - 2481.408 MHz

CHANNELS

94 Channels

NOMINAL EFFECTIVE RANGE

Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.

SIZE

Handset : 174mmx50mmx34mm
(including antenna)

Base : 206mmx146mmx70mm

WEIGHT

Handset : 116 grams
Base : 587 grams
(excluding battery pack)

POWER REQUIREMENTS

Handset : 2.4V 1500mAh NiMH or
2.4V 800mAh Ni-Cd
Battery Pack

Base : 7 VDC @ 900mA

MEMORY

Speed Dial: 50 Memory locations
32 digits per location

CID : Alpha Numeric Display
50 Memory locations

**SPECIFICATIONS ARE TYPICAL
AND MAY CHANGE WITHOUT
NOTICE.**



VTECH TELECOMMUNICATIONS LTD.

A member of THE VTECH GROUP OF COMPANIES.

Distributed in the U.S.A. by VTech Communications Inc.; Beaverton, Oregon.

Distributed in Canada by VTech Electronics Canada Ltd., Suite 200, 7671 Alderbridge Way, Richmond, B.C. V6X 1Z9.

Copyright 2002 for VTECH TELECOMMUNICATIONS LTD.
Printed in China

91-5364-10-00
ISSUE0