



# Pulse/Tone Switchable 12 Number Memory Telephone

## MODEL 2-9230/2-9233/2-9235



INTRODUCTION

CONTROLS  
AND  
FEATURES

INSTALLATION

TELEPHONE  
MEMORY  
OPERATION

PRODUCT  
CARE

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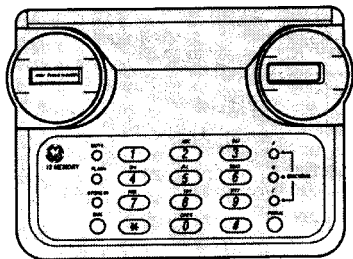
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## INTRODUCTION

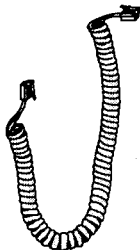
Thank you for purchasing a GE Communications Product. Your new GE telephone is a carefully engineered, high-quality, durable product with natural sound quality, modern features and elegant styling. It is designed to give you the quality and convenience you expect in a telephone.

To familiarize yourself with all the features of your telephone, please read the following instructions carefully. Retain this Guide for future reference.

FCC NUMBER IS LOCATED ON THE BOTTOM OF THE BASE UNIT  
 REN NUMBER IS LOCATED ON THE BOTTOM OF BASE UNIT  
 OTHER IMPORTANT INFORMATION ON BACK COVER OF THIS GUIDE



• **BASE UNIT**



• **COILED CORD**



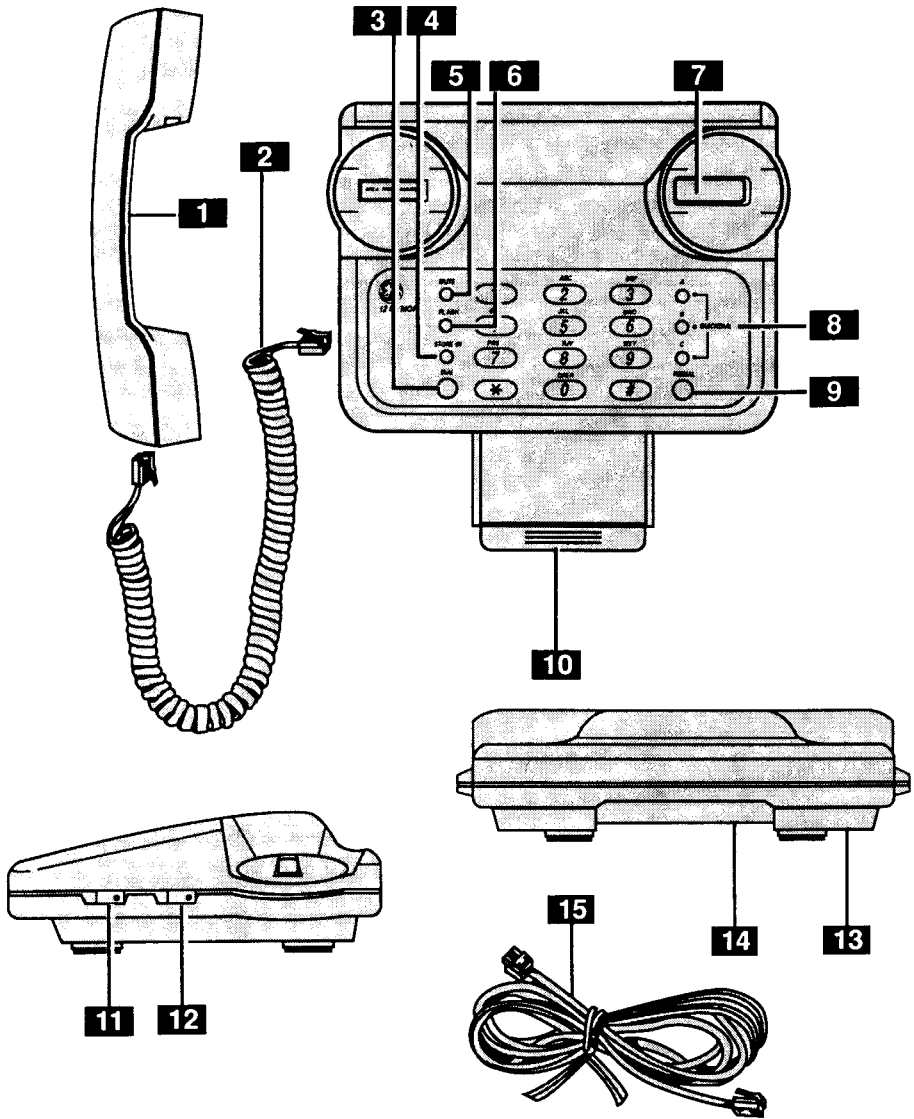
• **HANDSET**



• **LINE CORD**

### A. Parts Check List

# CONTROLS and FEATURES



1. **Handset**
2. **Extra Long Coiled Cord** — Connects the handset to the base unit. (Cord can be stretched to a maximum of 8 feet.)
3. **Dial Button** — Used when dialing a number stored in memory, locations 1-9.
4. **Store/In** — Stores phone number in a *MEMORY* location.
5. **Mute Button** — Allows you to exclude the party on the line from a conversation at your location.
6. **Flash Button** — Activates custom calling services (of your local telephone company) such as call transfer or call waiting.
7. **Handset Hook Switch**
8. **Quick Dial Buttons** — Provide instant dialing of up to 3 important telephone numbers by pressing A, B or C.
9. **Redial Button** — Redials the last number called. Also works as *PAUSE* for Memory after other numbers have been dialed.
10. **Memory Directory Tray** — Index for names (or numbers) of parties stored in the corresponding memory location.
11. **Dialing Mode Switch** — Sets the dialing mode for either Tone or Pulse (for rotary service).
12. **Ringer Volume Switch** — Adjusts the volume of the ringer (Hi or Lo) or to turn ringer off.
13. **Lithium Battery Compartment** — Located under *BASE*. (Long-Life Lithium Battery Cartridge is included).
14. **Telephone Straight Cord Jack**
15. **Line Cord**

### A. Telephone Controls

- **12 Number Memory** - Includes 3 positions for "One-touch" quick dialing for Emergency, etc. plus 9 additional memories for frequently called numbers.
- **Switchable Pulse/Tone Dialing** - Touch Tone or Pulse dialing, or any combination of Tone and Pulse, for access to long distance services.
- **Mute** - Deactivates the microphone in the handset so you can converse at your location and not be heard by the party on the line.
- **Flash Function** - Makes it easy to use special phone company features like call waiting.
- **Long Life Lithium Battery** - Provides Memory Back-up.
- **Extra Long Coiled Cord** - 8 foot replaceable coiled cord for convenience.

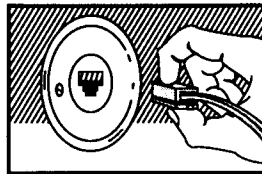
### B. Telephone Features

## INSTALLATION — DESK OR TABLE TOP

Follow these steps to connect your new telephone for proper operation. Make sure you have a modular telephone jack. A modular (Universal Service Order Code) USOC: RJ11C outlet (illustrated) jack is required.

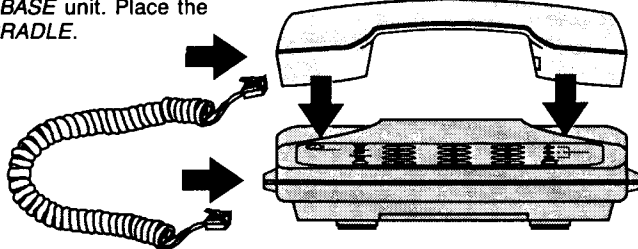
Installation of this telephone in locations with 4-prong jacks or with hard-wired outlets will require additional Converters (not included). The dealer from whom you purchased your phone or a telephone supply store can advise you regarding the proper Converter.

### A. Introduction



### 1. *Connect the Coiled Cord*

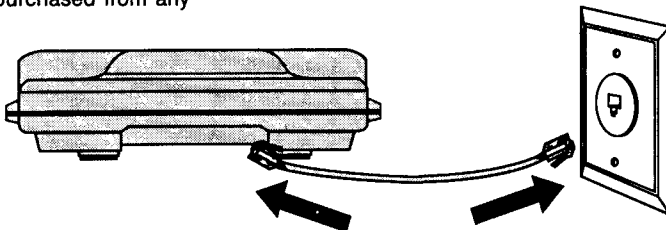
Plug one end of the *COILED CORD* to the *HANDSET* and plug the other into the *HANDSET* jack on *BASE* unit. Place the *HANDSET* in the *CRADLE*.



### B. Installation for Desk or Table Top Use

### 2. *Connect the Telephone Line Cord*

Plug the *PHONE LINE CORD* into the jack on the bottom of the *BASE UNIT*. Then, plug the *PHONE LINE CORD* into the telephone outlet. An RJ11C outlet jack (illustrated) is required. If you don't have an RJ11C, an adapter can be purchased from any telephone store.

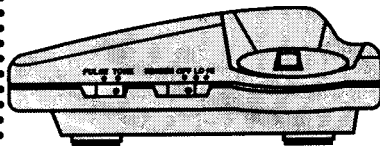


## INSTALLATION — DESK OR TABLE TOP

### 3. *The Pulse/Tone Switch*

The *PULSE/TONE* switch located on the *BASE* should be set to the proper position. The switch should be set to *TONE* if you have "touch tone" service. Otherwise, set to *PULSE*.

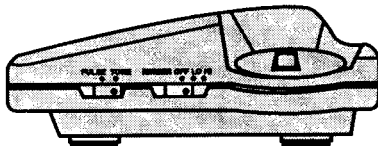
**Note:** If you have pulse service, the switch may be changed to *TONE* after dialing is completed. This allows access to phone services that require a tone. Return switch to *PULSE* when call is completed.



### 4. *Ringer Volume*

The *RINGER VOLUME* switch located on the side of the *BASE* can be set to the following:

- HI — Maximum Volume
- LO — Lower Volume
- OFF — Ringer is not heard



## TELEPHONE OPERATION

This GE Telephone provides normal telephone operation along with storage of up to twelve telephone numbers in memory for automatic dialing of frequently called or emergency numbers.

### **To Make A Call**

1. Pick up *HANDSET*.
2. Wait for dial tone.
3. Dial telephone number.
4. When finished, hang-up.

### **To Receive a Call**

1. When phone rings, pick up *HANDSET* and talk.
2. When finished, hang-up *HANDSET*.

**Note:** Make sure *RINGER* Switch is not off.

The telephone automatically remembers the last number dialed (up to 32 digits long).

The number will remain in "REDIAL" until another number is dialed.

To redial a number that you dialed press *REDIAL*.

Pressing and holding the *MUTE* button deactivates the microphone in the *HANDSET*. This allows you to converse at your location and not be overheard by the party on the line (you will still hear them).

### **To deactivate microphone:**

Press and hold *MUTE* button.

### **To continue conversation:**

Release *MUTE* button.

Briefly press *FLASH* to activate customer calling services from your local phone company, such as call transfer and call waiting. These services generally require an extra monthly fee. If you subscribe to any of these services, please refer to the phone company's instruction on how to use.

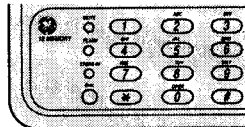
## A. Introduction

## B. How to Make and Receive Calls

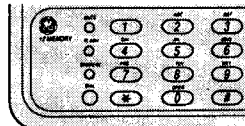
## C. Automatic Redial



## D. Using the Mute Button



## E. Using the Flash Button





## TELEPHONE MEMORY OPERATION

This GE Telephone has 12 memory locations capable of storing a telephone number of up to 16 digits. Three telephone numbers can be stored in the 3 Quick Dial positions and dialed with one touch. (For example: you may want to store emergency phone numbers for quick and easy access). 9 Memory positions are dialed with two touches (*DIAL* and the number button 1-9 corresponding to the memory location).

**Important:** Before you begin storing telephone numbers in memory you must set the PULSE/TONE switch to the correct position.

### Quick Dial Numbers

1. Pick up the *HANDSET*.
2. Push *STORE/IN*.
3. Enter the telephone number (it will not actually call the number in this mode).
4. Push *STORE/IN* again.
5. Push selected Quick Dial Location — A, B or C.
6. Hang up *HANDSET*.
7. Write the name or number of party stored in memory location on Directory Card.

### CAUTION

#### WHEN MAKING TEST CALLS TO EMERGENCY NUMBERS:

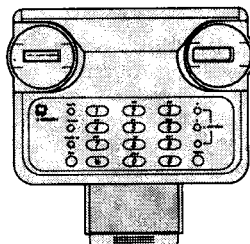
1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evening.

### Frequently Called Numbers

1. Pick up the *HANDSET*.
2. Push *STORE/IN*.
3. Enter the telephone number (it will not actually call the number in this mode).
4. Push *STORE/IN* again.
5. Push key pad 1, or 2 . . . , or 9 for memory location.
6. Hang up *HANDSET*.
7. Write the name or number of party stored in the memory location on Directory Card.

## A. Introduction

## B. How to Store



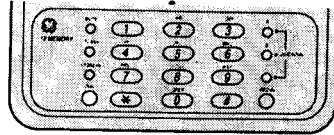
# TELEPHONE MEMORY OPERATION

## Quick Dial Numbers

1. Pick up *HANDSET*.
2. Wait for Dial Tone.
3. Press *A* or *B* or *C*.

## Frequently Called Numbers in Memory

1. Pick up *HANDSET*.
2. Wait for Dial Tone.
3. Press *DIAL*.
4. Press 1, or 2 . . . , or 9.



## C. How to Dial a Stored Number

This feature allows you to dial in succession a chain of numbers in different memory locations. This is useful when you must dial more than one number in memory to complete a call, such as with frequent calls via an independent service (e.g. MCI or Sprint).

### For example

### Memory Location

Local Access Number of Long Distance Company and 2 or 3 pauses at end, press	6
Authorization Code (ID), press	7
Long distance phone number, press	8

### To Initiate Chain Dialing

1. Press *DIAL*.
2. Press 6.
3. Press *DIAL*.
4. Press 7.
5. Press *DIAL*.
6. Press 8.

## D. How to Chain Dial Using the Memory

## TELEPHONE MEMORY OPERATION

When storing a number, a momentary delay may be needed in the dialing sequence for a stored telephone number. This is generally used when a "PAUSE" is needed to wait for a dial tone (e.g. after dialing a long distance access number). The *REDIAL* button should be pressed at the point where a pause is needed in the dialing sequence. During storage, pushing the *REDIAL* button serves to store a pause in the dialing sequence as often as needed.

**Note:** The *REDIAL* key will place a pause in the dialing sequence anytime it is *pressed after dialing a number*. When storing *PAUSE* in *MEMORY*, each *PAUSE* counts as one stored digit.

**Example:** 123 *REDIAL* 456-789-0123

Memory and Redial may require the use of a "PAUSE" when initially dialing or storing outside numbers. The sequence, then, for dialing or storing an outside number would be, for **example:** 9 *REDIAL* 123-4567

### ***How to Change a Stored Number***

Repeat the storage sequence. The new number will replace the old number at the memory location.

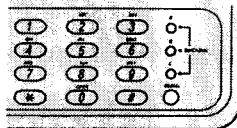
### ***How to Clear a Stored Number***

Repeat the storage sequence. Skip step 3 in the sequence (i.e. do not enter a telephone number). The storage location will be blank when sequence is completed.

### ***How to Correct an Error while Storing***

Simply hang up and repeat the procedure for storing from the beginning.

### **E. Storing a Pause in Dialing**



### **F. PABX and PBX Use**

### **G. Changing or Correcting a Stored Number**

## PRODUCT CARE

A consumer replaceable long-life Lithium Battery (3V) is installed in the phone to provide back-up power for retaining numbers in memory. The Lithium Battery compartment is located on the bottom of the telephone base.

1. **Unplug PHONE LINE** from telephone outlet.

2. **Unsnap the battery door.**

Using a screwdriver insert in opening at either end of battery cartridge pop it up, lift battery out. Dispose of battery cartridge. Replace only with GE CAT. #5-1923. When discarding batteries, be sure to dispose of them in the proper manner, according to your state and local regulations.

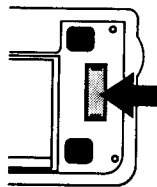
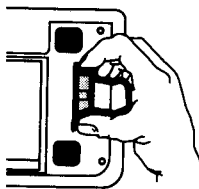
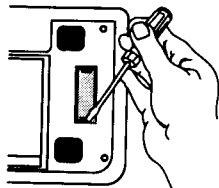
3. **Replace battery cartridge and door.**

**Note:** Cartridge can be inserted only one way.

4. **Plug in the PHONE CORD.**

**Note:** Numbers in memory must be reprogrammed.

### A. To Replace Backup Battery



### B. Battery Safety Precautions

For your safety, please follow these simple precautions:

- Do not recharge, disassemble, mutilate, puncture, wet or dispose of Battery in fire. Like other batteries of this type, if it is burned or punctured, it could release toxic material which could cause injury.
- Keep Battery out of reach of children.
- Replace only with GE Cat. #5-1923. Accessory Order Form included in this guide.

## PRODUCT CARE

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To keep your GE Telephone working and looking good, follow these few simple rules:

- Avoid putting telephone near heating appliances and devices that generate electrical noise. (i.e., motors, fluorescent lamps.)
- Telephone should not be exposed to direct sunlight or moisture.
- Avoid dropping the Handset and other rough treatment to the phone.
- Clean telephone with a soft cloth dampened with water. (Remember to first unplug phone from wall outlet)
- Never use a strong cleaning agent or abrasive powder, as this will damage the finish.
- Retain the original packaging for future use.

### C. General Product Care



## IN CASE OF DIFFICULTY

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If your Telephone does not work properly, follow the Service Checklist. If it is still inoperative then disconnect the Telephone and try another telephone to determine if the problem is with the telephone line. If it is the telephone line, notify the telephone company for service.

If the Telephone continues to malfunction, please make sure you have followed all the instructions in this manual to correct the problem.

If you continue to have problems, refer to the service information on page 17 of this guide and the Telephone must be disconnected.

### A. Service Checklist

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TELEPHONE PROBLEM	SOLUTION
1. No Dial tone	<ul style="list-style-type: none"><li>• Check Cords to make sure they are inserted correctly.</li><li>• Does <i>HOOK SWITCH</i> extend fully when handset is removed from cradle?</li></ul>
2. Phone does not dial	<ul style="list-style-type: none"><li>• Check <i>PULSE/TONE</i> switch. Place in the PULSE position.</li></ul>
3. You cannot be heard by other party	<ul style="list-style-type: none"><li>• Check that handset coil cord is fully inserted at both ends.</li></ul>
4. Memory Dialing Problems	<ul style="list-style-type: none"><li>• Did you program number correctly?</li><li>• Did you follow the proper dialing sequence?</li></ul>
5. Incoming and Outgoing voice volume is too low	<ul style="list-style-type: none"><li>• Check that other phones are off hook at the same time. If so, this is a normal condition as volume drops when additional phones are used at once.</li></ul>
6. Phone does not ring	<ul style="list-style-type: none"><li>• Is <i>RINGER SELECT</i> set to <i>OFF</i> position?</li><li>• Are you using too many phones on one line? The total REN of all phones should not be greater than the maximum REN for your calling area. (Usually maximum REN is 5. See FCC Registration Information on back cover.)</li></ul>
7. Tone Feedback Flutter while dialing in pulse mode	<ul style="list-style-type: none"><li>• This is normal as power is fluctuating with phone out-pulsing.</li></ul>
8. Loss of Memory	<ul style="list-style-type: none"><li>• Is battery installed correctly?</li><li>• Does battery need to be replaced?</li></ul>



## FCC REGISTRATION INFORMATION

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Your GE telephone equipment is registered with the Federal Communications Commission and is in compliance with parts 15 and 68, FCC Rules and Regulations.

### 1. *Notification to the Local Telephone Company*

On the bottom of this equipment is a label indicating among other information, the FCC Registration number and Ringer Equivalence Number (REN) for the equipment. You must, upon request, provide this information to your telephone company.

The REN is useful to determine the number of devices you may connect to your telephone line and still have all these devices ring when your telephone number is called. In most (but not all) areas, the sum of the REN's of all devices connected to one line should not exceed 5. To be certain of the number of devices you may connect to your line as determined by the REN, you should contact your local telephone company.

**NOTES:** This equipment may not be used on coin service provided by the telephone company.

Party lines are subject to state tariffs, and therefore, you may not be able to use your own telephone equipment if you are on a party line. Check with your local telephone company.

Notice must be given to the telephone company upon permanent disconnection of your telephone from your line.

### 2. *Rights of the Telephone Company.*

Should your equipment cause trouble on your line which may harm the telephone network, the telephone company shall, where practicable, notify you that temporary discontinuance of service may be required. Where prior notice is not practicable and the circumstances warrant such action, the telephone company may temporarily discontinue service immediately. In case of such temporary discontinuance, the telephone company must: (1) promptly notify you of such temporary discontinuance, (2) afford you the opportunity to correct the situation and (3) inform you of your right to bring a complaint to the Commission pursuant to procedures set forth in Subpart E of Part 68, FCC Rules and Regulations.

The telephone company may make changes in its communications facilities, equipment, operations of procedures where such action is required in the operation of its business and not inconsistent with FCC Rules and Regulations. If these changes are expected to affect the use or performance of your telephone equipment, the telephone company must give you adequate notice, in writing, to allow you to maintain uninterrupted service.

## INTERFERENCE INFORMATION

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna (that is, the antenna for radio or television that is "receiving" the interference).
- Reorient or relocate and increase the separation between the telecommunications equipment and receiving antenna for radio or television that is "receiving" the interference).
- Connect the telecommunications equipment into an outlet on a circuit different from that to which the receiving antenna is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If these measures do not eliminate the interference, please consult your dealer or an experienced radio/television technician for additional suggestions. Also, the Federal Communications Commission has prepared a helpful booklet, "How To Identify and Resolve Radio/TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Please specify stock number 004-000-00345-4 when ordering copies.

## HEARING AID COMPATIBILITY

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This telephone system meets FCC standards for Hearing Aid Compatibility.



Model 2-9230A/2-9233A/2-9235A  
349A1644-0001 (Rev. 1)  
94-05

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