

NEC

Dterm[®] Analog Cordless II
(DTR-1R-2)

User's Manual

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Welcome/Features/Terminology

Welcome

Congratulations on your purchase of this NEC Unified Solutions, Inc. Digital Expandable Cordless Telephone System! This unit is different from conventional cordless telephones. You can now place a fully-featured cordless handset anywhere in your home or office where AC power is available to connect the handset chargers.

- Some illustrations in this manual may differ from the actual unit for explanation purposes.

Features

- 5.8GHz Digital Expandable
- Hands-Free Duplex Speakerphone in the Handset
- Caller ID
- 100 programmable Memory Locations
- Trilingual Display Options (English, French and Spanish)
- 20 Distinctive Ring Options (10 ringer tones and 10 melody ringers)
- Mute and Hold Features
- Battery Level Indicator
- Clock Display
- Animation Displays

This series features AutoTalk™ and AutoStandby™. AutoTalk allows you to answer a call by just removing the handset from the cradle so you don't have to waste time pushing buttons. AutoStandby allows you to hang up by simply returning the handset to the cradle.

To protect you against mis-billed calls that might result from your phone being activated by other equipment, this series has Random Code™ digital security, which automatically selects one of more than 10,000,000 digital security codes for the handset and base.

Digital Spread Spectrum Technology uses a wider frequency band than standard digital transmissions. The result is a more secure conversation with the clarity of digital sound, extended range, and minimal interference from other cordless phones.

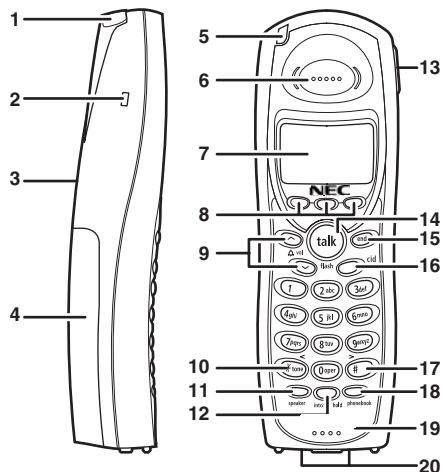
IntegriSound™ Built in sound quality which provides life-like conversations.¹

Terminology

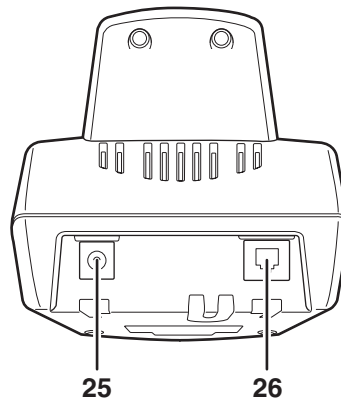
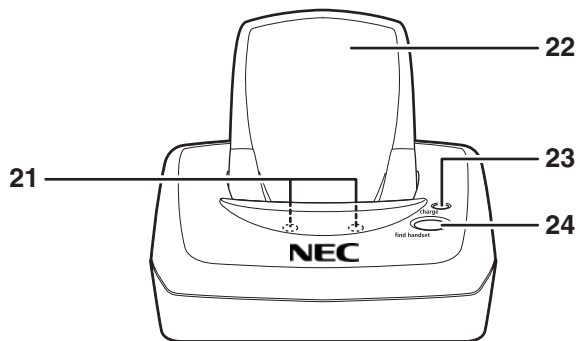
- **Standby Mode** - The handset is not in use, and *talk/flash* or *speaker* has not been pressed. No dial tone is present.
- **Talk Mode** - The handset is not in the cradle, and *talk/flash* or *speaker* has been pressed, enabling a dial tone. Talk appears on the display.

1. AutoTalk, AutoStandby, IntegriSound, and Random Code are trademarks of Uniden America.

Controls & Functions



1. Handset Antenna
2. Beltclip Hole
3. Speakerphone Speaker and Ringer
4. Handset Battery Compartment
5. New Message LED
6. Handset Earpiece
7. LCD Display
8. *soft* Keys (page 4)
9. Δ /vol ∇ / ∇ (volume up/down) (page 10 & page 16)
10. **/tone/<* (page 17 & page 20)
11. *speaker* (page 15)
12. *intcom/hold*
13. Headset Jack Cover
14. *talk/flash* (page 15)
15. *end* (page 15)
16. *cid* (page 23)
17. *#/>* (page 20)
18. *phonebook* (page 19)
19. Handset Microphone
20. Handset Charging Contacts



21. Base Charging Contacts
22. Base Antenna
23. Charge LED
24. *find handset* (page 25)
25. **DC IN 9V** Jack
26. **TEL LINE** Jack

Displays and Icons

Example of the standby mode display



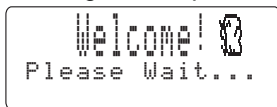
— Ringer off icon (when the ringer is off)/ day of the week and time / battery icon
 — Handset ID and Banner
 — Number of new Caller ID calls received (If there are no new Caller ID messages, the Handset ID appears here.)

ICON	Appears During	DESCRIPTION
	Standby/Talk	Battery icons indicate the handset battery status. This icon changes depending on the battery status (empty, low, medium and full).
	Standby	The Ringer off icon indicates that ringer is turned off.
	Talk	The Mute icon appears when you mute the handset.
	Talk	The Speaker icon appears when the handset speaker phone is used.
	Talk	The Privacy icon appears when the Privacy Mode is turned on.

Animation Displays

The handsets have a variety of animation displays. Below are examples of the animation screens and what they mean:

Turning on the phone



Hanging up the phone



Confirmation (Done!)



Deleting (Deleted!)



Making a call



Find Handset/Paging the Handset



Also, the animation display changes depending on the ringer volume setting.



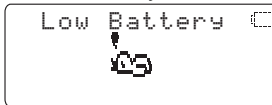
Out of Range



Unavailable




Low Battery



Soft Key Function

"Soft" keys are keys that change function during the operation of the phone. There are three soft keys on each handset. Soft Keys allow you to:

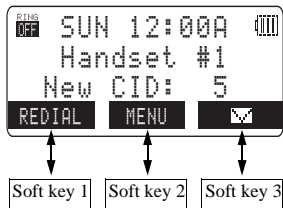
- Access the main menu
- Store or edit phone numbers
- Access stored Caller ID messages
- Redial one of the last three numbers dialed from the handset

 The soft keys will not appear while the handset is charging.

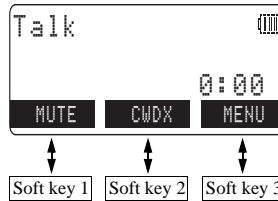
The function of each soft key is determined by the icon that appears directly above it. For example, when the handset is in standby mode, pressing soft key 1 will redial the last dialed number. When the handset is in talk mode, pressing soft key 1 will mute the microphone.

Complete information on the features controlled by the soft keys can be found under each feature.

In standby mode



In talk mode



Getting Started

Setting up the Phone

Do the following steps:

- A. Choose the best location
- B. Install the rechargeable battery pack into the handset.
- C. Connect the base unit

A. Choose the best location

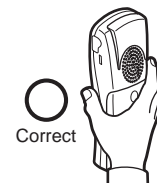
Before choosing a location for your new phone, read "Installation Considerations" on [page 32](#). Here are some important guidelines you should consider:

- Avoid heat sources, such as radiators, air ducts, and sunlight.
- Avoid television sets and other electronic equipment.
- Avoid microwave ovens
- Avoid noise sources, such as a window by a street with heavy traffic.
- Avoid excessive moisture, extremely low temperatures, dust, mechanical vibration, or shock.
- Avoid personal computers.
- Avoid other cordless telephones.
- Choose a central location.



For maximum range:

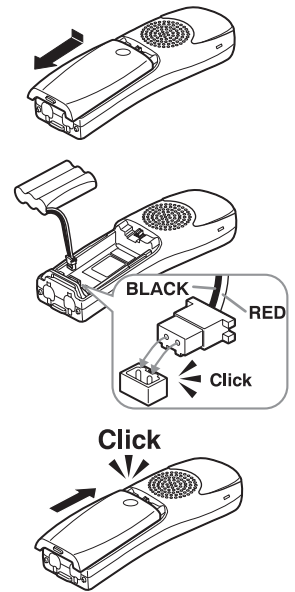
- Keep the antenna free of obstruction.
- When the handset is not in use place the handset in an upright position.
- Do not hold the handset where you would block the signal.
- Metal and reinforced concrete may affect cordless telephone performance.



B. Install the Rechargeable Battery Pack into the Handset

The handset is powered by a rechargeable battery pack. The battery recharges automatically when the handset is placed in the base unit. To maximize the charge capacity of your battery pack, **DO NOT** plug the telephone cord into the base unit and wall jack until the battery is fully charged.

- 1) Press down on the handset battery case cover (use the finger indentation for a better grip) and slide the cover downward to remove.
- 2) Turn the battery pack so that the connector with the red and black wires is near the jack inside the battery compartment. Match the connector's wire colors to the polarity label in the battery compartment (the connector notches fit into the grooves of the jack only one way). Push the battery pack connector into the jack until it clicks into place.
- 3) Make sure you have a good connection by gently pulling on the battery wires. If the connection is secure, the battery jack will remain in place.
- 4) Place the battery case cover back on the handset and slide it upwards until it clicks into place.



- Use only the NEC rechargeable battery pack supplied with your cordless telephone.
- Replacement battery packs are also available. Contact your NEC Representative.

C. Connect the Base Unit

- 1) Connect the AC adapter to the **DC IN 9V** jack and to a standard 120V AC wall outlet.

Connect the AC adapter to a continuous power supply (i.e., an outlet that is not controlled by a switch).

- 2) Set the base on a desk or tabletop, and place the handset in the base unit.

Place the base unit close to the AC outlet so that you can unplug the AC adapter easily.

- 3) Make sure that the **charge** LED illuminates.

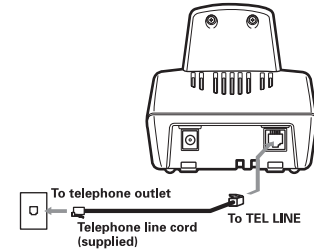
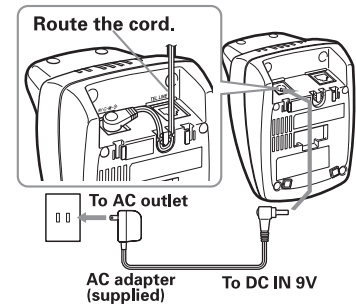
If the LED does not illuminate, check to see that the AC adapter is plugged in and the handset makes good contact with the base charging contacts.

- 4) After install the battery pack in the handset, charge your handset for at least 15~20 hours before plugging into the phone line.

- 5) Once the handset battery pack is fully charged, connect the telephone line cord to the **TEL LINE** jack and to a telephone outlet.



If your telephone outlet is not modular, contact your NEC Representative for assistance.



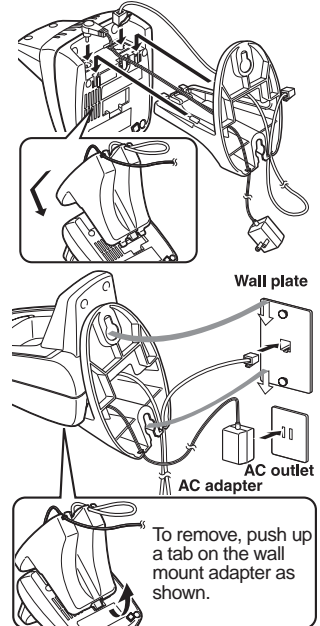
- Use only the supplied AC adapter. **Do not use any other AC adapter.**
- Place the power cord so that it does not create a trip hazard or where it could become chafed and create a fire or electrical hazard.

Mounting the Base Unit on a Wall

Standard Wall Plate Mounting

This phone can be mounted on any standard wall plate.

- 1 Make the AC adapter and the telephone line cord through the hole on the wall mount adapter.
- 2 Plug the AC adapter into the **DC IN 9V** jack.
- 3 Plug the telephone line cord into the **TEL LINE** jack.
- 4 Slide the wall mount adapter into the notches on the base.
- 5 Plug the AC adapter into a standard 120V AC wall outlet. Hook the cord on the notch of the wall mount adapter.
- 6 Plug the telephone line cord into the telephone outlet. Hook the cord on the notch of the wall mount adapter.
- 7 Align the mounting slots on the base with the mounting posts on the wall. Then push in and down until the telephone is firmly seated.

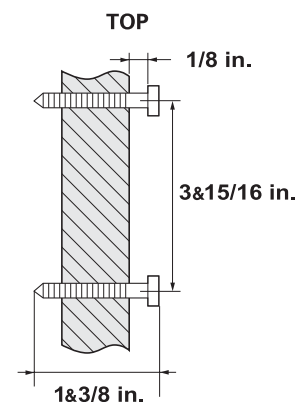


DO NOT use an AC outlet controlled by a wall switch.

Direct Wall Mounting

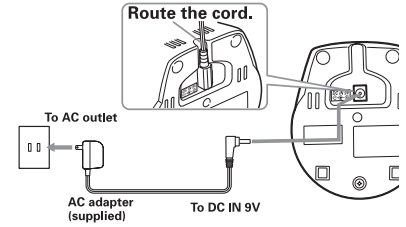
If you do not have a standard wall plate, you can mount your phone directly to the wall. Before doing this, consider the following:

- Avoid electrical cables, pipes, or other items behind the mounting location that could cause a hazard when inserting screws into the wall.
 - Try to mount your telephone within 5 feet of a working phone jack to avoid excessive lengths.
 - Make sure the wall material is capable of supporting the weight of the base and handset.
 - Use #10 screws (minimum length of 1 & 3/8 inches) with anchoring devices suitable for the wall material where the base unit will be placed.
- 1 Insert two mounting screws into the wall (with their appropriate anchoring device), 3 & 15/16 inches apart. Allow about 1/8 of an inch between the wall and screw heads for mounting the telephone.
 - 2 Refer to steps 1 through 7 above for mounting the telephone.



Connecting the Charger

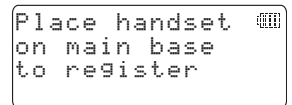
- 1 Connect the AC adapter to the **DC IN 9V** jack and to a standard 120V AC wall outlet.
- 2 Set the charger on a desk or tabletop, and place the handset in the charger with the keypad facing forward. (See “B. Install the Rechargeable Battery Pack into the Handset” on page 6.)



Charge the handset battery pack for at least 15~20 hours before using your new cordless telephone for the first time.

Register the Handset

Handsets supplied with the phone are registered to the base by the factory. When charged, pre-registered handsets display a handset ID number. Handsets that have not been registered display `Place handset on main base to register`. When you register a handset to the base, the handset ID will be assigned.



- 1 Before registering the handset, the battery pack **MUST** be charged for 15~20 hours.
- 2 Place the handset in the main base unit to begin registration.
- 3 While the handset is registering, `Handset Registering` will appear in the LCD. When `Registration Complete` is displayed, the handset has been registered to the base. If `Registration Failed` appears, please try these steps again.



The handset can be registered when the main base is in standby mode.

Main Menu Options

Your phone has five main menu options: Handset Setup, Global Setup and Deregister HS.



- For Global Setup and Deregister HS menu options, make sure the line is not in use and the handsets are within range of the base.
- Main menu flow chart is provided on [page 37](#).

Default Settings

The default settings set from the factory match the features that most people use. You may not need to change them. However, there are a number of options you must set and entries you must make in memory to take full advantage of all the phone features. The table below lists the default settings.

Function	Default Settings	Function	Default Settings
Edit Voice Mail	None	Day & Time	SUN 12:00 AM
Ringer Tone	Flicker	CW / CWDX	CW on/CWDX off
Distinctive Ring	On	Area code	None
Auto Talk	Off	Dial Mode	Tone
Anykey Answer	Off	Voice Mail Tone	On
Banner	“ “		
Language (LCD)	English		
Contrast	level 5		
Key touch tone	On		
Animation Screen	On		

Setting Menu Options

Using the interface

Below are some tips for using the software interface on your phone.

- Press the *MENU* soft key to access the main menu.
- Use Δ /vol/∧ and Δ /vol/∨ to scroll through options.
- Press the *OK* soft key to make a selection.
- Press the *BACK* soft key to return to the previous screen.
- Press *end* to exit the menu.

Handset Setup

The following submenu options must be set separately for each handset.

Programming your Voice Mail Access Number

- 1 Press the *MENU* soft key. Select the Handset Setup menu, and then the Edit Voice Mail submenu.
Edit V_mail No. appears.
- 2 Enter your personal access number using the number keypad (0-9), **/tone/<, #/>*, the *DELETE* soft key, or the *PAUSE* soft key (up to 20 digits).
- 3 Press the *OK* soft key. You will hear the confirmation tone.



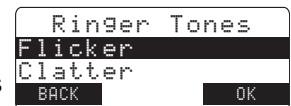
To delete the current Voice Mail Access Number, delete all numbers in step2 using the *DELETE* soft key and the *OK* soft key.

Selecting a Ringer Tone

Ringer Tone lets you choose from 10 ringer tones or 10 melodies:

- *Ringers (Flicker, Clatter, Soft Alert, Wake Up, Light Bug, Beep Boop, Tone Board, Chip Chop, Party Clap, Reminder)*
- *Melodies (Beethoven's Symphony #9 [Beethoven9], For Elise [Elise], We Wish You A Merry Christmas [Merry- Xmas], Home Sweet Home [Hm Swt Hm], Lorri Song #6 [Lorri Song], When Irish Eyes Are Smiling [Irish Eyes], Aura Lee, Let Me Call You Sweet Heart [Sweetheart], Star Spangled Banner [Star Spngl], Old MacDonald [Old MacDld]).*

- 1 Press the MENU soft key. Select the Handset Setup menu, and then the Ringer Tone submenu.
- 2 Press Δ /vol \wedge or Δ /vol \vee to move the pointer. You will hear the ringer or melody as you scroll through the options.
- 3 When you reach the ringer tone you want, press the OK soft key. You will hear a confirmation tone.



Distinctive Ringer Setup

Distinctive Ringer allows you to assign a designated ring tone to a stored phonebook number (100 stored locations available). When a call is received and the Caller ID information matches the information in one of the phonebook memory locations, the phone uses the distinctive ring assigned to that particular Caller. You can assign distinctive rings to multiple phonebook memory locations. Switching the setting to Distinctive Off disables distinctive ringing: all incoming calls will have a normal ring tone. Switching to Distinctive On activates all programmed distinctive ring memory locations.

- 1 Press the MENU soft key. Select the Handset Setup menu, and then the Distinctive Ring submenu.
- 2 Press Δ /vol \wedge or Δ /vol \vee to select On or Off.
- 3 Press the OK soft key. You will hear a confirmation tone.



Setting the AutoTalk

Autotalk allows you to answer the phone simply by removing the handset from the cradle. You do not have to press any buttons to answer the call.

- 1 Press the MENU soft key. Select the Handset Setup menu and then the AutoTalk submenu.
- 2 Press Δ /vol \wedge or Δ /vol \vee to select On or Off.
- 3 Press the OK soft key. You will hear a confirmation tone.



Setting the Anykey Answer

Any Key Answer allows you to answer the phone by pressing any number key, **/tone/<*, or *#/>* on the handset.

- 1 Press the MENU soft key. Select the Handset Setup menu, and then the Anykey Answer submenu.
- 2 Press Δ /*vol*/ \wedge or Δ /*vol*/ \vee to select On or Off.
- 3 Press the OK soft key. You will hear a confirmation tone.

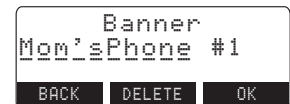


Setting the True Banner

True Banner lets you customize the name your handset displays.

The name will be displayed on the LCD screen during Standby Mode, Intercom, Intercom Hold, Room Monitor and Copy Phonebook operation. The banner name will be displayed on the receiving handset as well.

- 1 Press the MENU soft key. Select the Handset Setup menu, and then the Banner submenu.
- 2 Use the number keypad (0~9), **/tone/<*, *#/>*, or the DELETE soft key to enter or edit the name.
- 3 Press the OK soft key. You will hear a confirmation tone.



Selecting a Language

Language selects which language the menu display will use. Choose from English, French, or Spanish.

- 1 Press the MENU soft key. Select the Handset Setup menu, and then the Language submenu.
- 2 Press Δ /*vol*/ \wedge or Δ /*vol*/ \vee to choose "English", "Français" (French), or "Español" (Spanish).
- 3 Press the OK soft key. You will hear a confirmation tone.



Adjusting the LCD Contrast

Contrast adjusts the handset LCD brightness. Choose one of the 10 levels for optimum viewing.

- 1 Press the MENU soft key. Select the Handset Setup menu and then the Contrast submenu.
- 2 Press Δ /*vol*/ \wedge or Δ /*vol*/ \vee to adjust the contrast of the LCD (10 levels.)
- 3 Press the OK soft key. You will hear a confirmation tone.



Setting the Key Touch Tone

Key Touch Tone is the tone your keypad makes when keys are pressed. You can turn this tone on or off.

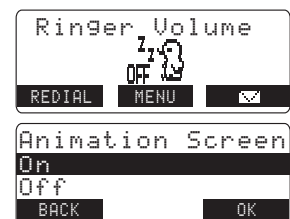
- 1 Press the MENU soft key. Select the Handset Setup menu and then the Key Touch Tone submenu.
- 2 Press Δ /*vol*/ \wedge or Δ /*vol*/ \vee to select On or Off.
- 3 Press the OK soft key. You will hear a confirmation tone.



Setting the Animation Screen

The Animation screen displays animation on the handset LCD. The animations will be displayed on the LCD screen during a call, ringer volume setting, when you hang up, and so on.

- 1 Press the MENU soft key. Select the Handset Setup menu and then the Animation Screen submenu.
 - 2 Press Δ /*vol*/ \wedge or Δ /*vol*/ \vee to select On or Off.
 - 3 Press the OK soft key. You will hear a confirmation tone.
- See "Animation Displays" on [page 3](#) for all the available screens.



Global Setup


If you change one of the global settings, you change that setting for all registered handsets. Only one handset can change global settings at a time.

Setting Day and Time

Day & Time sets the day and time of your display.

- 1 Press the MENU soft key. Select the Global Setup menu, and then the Day & Time submenu option.
- 2 Press Δ /vol/^ OR Δ /vol/v to select the day of the week, and then the → soft key.
- 3 Press Δ /vol/^ OR Δ /vol/v to set hour, and then press the → soft key.
- 4 Press Δ /vol/^ OR Δ /vol/v to set minute, and then press the → soft key.
- 5 Press Δ /vol/^ OR Δ /vol/v to choose AM or PM, and then press the SAVE soft key.



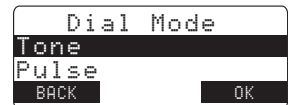
 Day & Time idle timeout is two minutes.

Setting the Dial Mode

Sets the dial mode to tone or pulse. Most phone systems use tone dialing; the default setting is tone dialing. Set the dialing mode to match the dialing system used by your local phone service.

- If you are not sure of your dialing system, set the unit to tone dialing. Make a trial call. If the call connects, leave the setting as is; otherwise set the unit to pulse dialing.
- If your phone system requires pulse dialing and you need to send DTMF tones in certain situations during a call, you can switch over to tone dialing (refer to “Tone Dialing Switch-over” on [page 17](#)).

- 1 Press the MENU soft key. Select the Global Setup menu, and then the Dial Mode submenu.
- 2 Press Δ /vol/^ OR Δ /vol/v to select Tone or Pulse (the initial setting is Tone).
- 3 Press the OK soft key. You will hear a confirmation tone.



Setting Voice Mail Tone

Voice Mail Tone sets the voice mail tone. If your service does not support SDT message signal, set your VMWI (Visual Message Waiting Indicator) not to detect SDT message signal.

- 1 Press MENU soft key. Select the Global Setup menu, and then the Voice Mail Tone Submenu.
- 2 Press Δ /vol/^ OR Δ /vol/v to set the voice message indication (SDT message signal) to On or Off.
- 3 Press the OK soft key. You will hear a confirmation tone.



Deregister the Handset

Deregister HS clears the handset's ID from the main base unit or the base ID from the handset. You will usually only deregister the handset if you are having a problem with your phone or if you need to change the digital security code. (see [page 25](#)).

- 1 In standby mode, select Deregister HS in the menu and press the OK soft key. Deregister HS? appears.
- 2 Press Δ /vol/^ OR Δ /vol/v to select Yes and then the OK soft key.



When deregistration is complete you will hear a confirmation tone, and Deregistration Complete appears.

- 3 After deregistering the handset, place the handset to the base to register. You must reregister the handset before you can use it.

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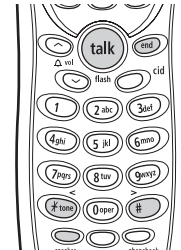
Basics

Making and Receiving Calls

With the handset's duplex speakerphone, you can have hands-free conversations.

The  icon appears on the display screen during hands-free conversations.

You can easily switch a call from normal conversation to hands-free conversation. To switch a call, press *speaker* during the call.



For best performance talk alternately with the caller in a quiet room. You can decrease the speaker volume if you or the other party has difficulty hearing.

From the Handset

	From the Handset	
	Normal conversation	Hands-free conversation
To answer a call	Handset On the Cradle Pick up the handset (AutoTalk is: on) or pick up the handset and press <i>talk/flash</i> (AutoTalk is: off). Handset Off the Cradle Press any number key, <i>*/tone/</i> <, or <i>#/</i> > (Any Key Answer), or press <i>talk/flash</i> .	Handset Off the Cradle Press <i>speaker</i> .
To make a call	Handset Off the Cradle 1) Press <i>talk/flash</i> . 2) Listen for the dial tone. 3) Dial the number. OR Dial the number, and then press <i>talk/flash</i> .	Handset Off the Cradle 1) Press <i>speaker</i> . 2) Listen for the dial tone. 3) Dial the number. OR Dial the number, and then press <i>speaker</i> .
To hang up	Press <i>end</i> or return the handset to the cradle (AutoStandby).	
To enter a pause within the dialing sequence	When you dial the number in standby mode, press the PAUSE soft key. <i>P</i> appears in the display, which represents a pause.	

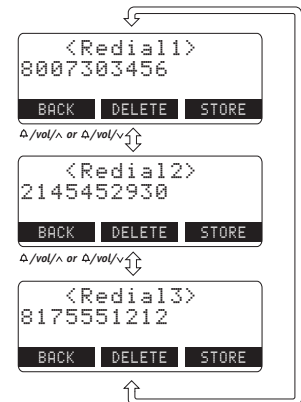


- To set "Autotalk", see [page 11](#) or to set "Anykey Answer" see [page 12](#).
- The handset microphone is located at the bottom of the handset (see "Controls & Functions" on [page 2](#)). Position yourself as near to the handset as possible and speak clearly.

Redialing a Call

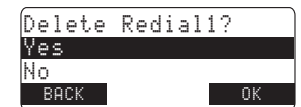
The last three phone numbers dialed can be quickly redialed from the handset. Redial numbers stored in the handset are independent from each other.

- 1 With the phone in standby mode, press the **REDIAL** soft key.
- 2 Press $\Delta/vol/\wedge$ or $\Delta/vol/\vee$ to scroll through the last three dialed numbers.
- 3 Press *talk/flash* or *speaker* on the handset. The selected number is dialed.
- 4 To hang up, press *end*.



Deleting a Redial Record

- 1 With the phone in standby mode, press the **REDIAL** soft key.
- 2 Press $\Delta/vol/\wedge$ or $\Delta/vol/\vee$ repeatedly to display the number to be deleted.
- 3 Press the **DELETE** soft key.
- 4 Press $\Delta/vol/\wedge$ or $\Delta/vol/\vee$ to choose Yes.
- 5 Press the **OK** soft key. The redialed number is deleted.



Storing a Redial Record

- 1 With the phone in standby mode, press the **REDIAL** soft key.
- 2 Press $\Delta/vol/\wedge$ or $\Delta/vol/\vee$ repeatedly to display the number to be stored.
- 3 Press the **STORE** key. Store/Edit Name appears.
- 4 To complete the setting, follow the steps 3–8 in "Phonebook (Storing Phone Numbers, Names, Distinctive Rings, and Speed dial)" on [page 19](#).

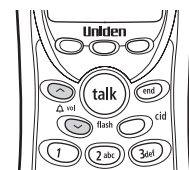


- If the number exceeds 32 digits, only the first 32 digits are retained in redial memory.
- If the redial memory is empty, you will hear a beep.

Adjusting the Ringer, and Earpiece and Speaker Volume

Ringer Volume

In standby mode, press the volume up key or volume down key on the handset to select one of three ringer volume (**Off, Low, or High**).



Earpiece and Speaker Volume

You can select from among six volume levels on the handset. Pressing the volume up key or volume down key during a call will change the earpiece or speaker volume. This setting will remain in effect after the telephone call has ended.

If you press the volume up key when the earpiece is at the maximum volume level, an error tone sounds.

The error tone also sounds if you press the volume down key at the lowest volume.


Temporarily Muting the Ringer

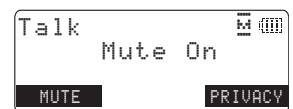
You can mute the ringer on a handset. When the phone is ringing, pressing the **MUTE** soft key. This mute will last for the current incoming call only. The ringer tone will return to the previous setting on the next incoming call.



While charging the handset, you can not mute the ringer tone for the handset.

Mute Microphone

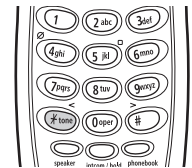
You can temporarily mute the microphone so that the caller cannot hear you. Press the **MUTE** soft key during talk mode (while the phone is in use) to mute the microphone. *Mute On* and  appear in the display. To cancel muting, press the **MUTE** soft key again. *Mute Off* appears.



Tone Dialing Switch-over

If your telephone company requires pulse dialing, you can switch-over to tone dialing after the call connects. This feature is useful when you need tone dialing to use any automated menu systems, such as telephone bank tellers, telephone prescription refills, customer support menus, etc.

If your phone is set to pulse dialing mode, make your call normally. Once your call connects, press the **/tone/<* key. Any digits you enter from then on will be sent as tone digits. When this particular call ends, the phone automatically returns to pulse dialing mode.





Traveling Out of Range

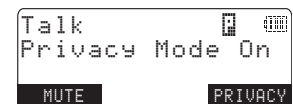
During a call, as you begin to move your handset too far from your base unit, noise may increase. If you pass the range limits of the base unit, you will hear a beep and see *Out of Range* on the display, and then the handset returns to standby mode.

Privacy Mode

Privacy Mode prevents interruption from other registered handsets. **This works only when the phone is in use.**

Press the **PRIVACY** soft key *on the handset during talk mode*.

Privacy Mode On  and  appear in the display. To exit the Privacy Mode, press the **PRIVACY** soft key again when the Privacy Mode is on. *Privacy Mode Off* appears.



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Phonebook

Phonebook (Storing Phone Numbers, Names, Distinctive Rings and Speed Dial)

You can store names and numbers in your phone's phonebook, search for names alphabetically, and dial phonebook entries with just a few key presses. You can store up to 100 numbers in the handset.

The phone uses the same memory locations to store phonebook entries and Caller ID messages. Any empty phonebook locations are used to store Caller ID messages. For example, if you have stored 100 phonebook entries on your handset, the handset will not store Caller ID messages.

- 1 When the phone is in standby mode, press *phonebook*. The following items appear:



Phonebook : 1
Search [A-Z/↑/↓]
Store [STORE]
BACK COPY STORE

- (1st line) The number of the phonebook locations used
- (2nd line) How to search (press the number keypad, Δ /vol/∧ or Δ /vol/∨)
- (3rd line) How to store (press the **STORE** soft key)
- (4th line) The **BACK**, **COPY**, and **STORE** soft keys.

- 2 Press the **STORE** soft key, Store/Edit Name appears.
- 3 Enter the name (up to 16 characters) by using the number keypad (see the "Steps for Entering Names and Special Characters").



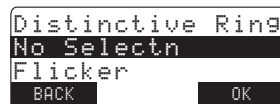
Store/Edit Name
Movies█
BACK DELETE OK

If a name is not required, go to step 4. <No Name> will be used as the name.

- 4 Press the **OK** soft key to store the name; Store/Edit No. appears.
- 5 Use the number keypad, **tone/<*, or *#/>* to enter the phone number (up to 20 digits).
If you make an error, use the **DELETE** soft key to erase the incorrect digits. When you are finished, press the **OK** soft key to store the number.
- 6 Distinctive Ring appears. Press Δ /vol/∧ or Δ /vol/∨ to move the pointer to one of the Distinctive Ring options and then press the **OK** soft key.
- 7 Speed Dial appears. Press Δ /vol/∧ or Δ /vol/∨ to move the pointer to select the Speed dial location (10 locations: SPD1-SPD0).



Store/Edit No.
8007303456█
DELETE PAUSE OK



Distinctive Ring
No Selectn
Flicker
BACK OK



Speed Dial
No Selectn
SPD1:<Empty>
BACK OK

8 Press the **OK** soft key. You will hear a confirmation tone, and Done! appears in the display.



- When the memory is full, you will hear a beep and Memory Full appears. You cannot store names and numbers.
- The pause key counts as one digit. Pressing the **PAUSE** soft key more than once increases the length of the pause between numbers. Each pause represents a 2-second delay.
- If you choose not to store a Distinctive Ring, simply select the "No Selection" option.
- If you choose not to store the name/number as a Speed Dial, simply choose the "No Selection" option.

Chain Dialing

The memory locations in the handset are not limited to phone numbers. You can also store a group of numbers (up to 20 digits) that you need to enter once your call connects. This is referred to as Chain Dialing.

An example of this is a bank account number. Store the account number in one of the phonebook locations (refer to "Phonebook (Storing Phone Numbers, Names, Distinctive Rings and Speed Dial)" on [page 19](#)). When you call your bank and are prompted to enter the account number, scroll through your phonebook locations until you find your account number, and then press the **DIAL** soft key.

Steps for Entering Names and Special Characters

Refer to the letters on the number keys to select the desired characters. With each press of a number key (0-9), the displayed character appears in the following order: Upper case letters first, lower case letters next and finally the number corresponding to the key.

keys	Number of times key is pressed								
	1	2	3	4	5	6	7	8	9
1	1								
2 abc	A	B	C	a	b	c	2		
3 def	D	E	F	d	e	f	3		
4 ghi	G	H	I	g	h	i	4		
5 jkl	J	K	L	j	k	l	5		
6 mno	M	N	O	m	n	o	6		
7 pqrs	P	Q	R	S	P	q	r	s	7
8 tuv	T	U	V	t	u	v	8		
9 wxyz	W	X	Y	Z	w	x	y	z	9
0 oper	&	()	<	>	/	(blank)	-	_
	.	,	:	?	!	@	'	"	*
	#	0							

If You Make a Mistake while Entering a Name

Use **/tone/<* or **/>* to move the cursor to the incorrect character.

Press the **DELETE** soft key to erase the wrong character, and then enter the correct character. To delete all characters press and hold the **DELETE** soft key.

For example, to enter **Movies**:

- 1 When the phone is in standby mode, press *phonebook* and the **STORE** soft key. *Store/Edit Name* appears.
- 2 Press **6** once, and then press **/>* to move the cursor to the right.
- 3 Press **6** six times.
- 4 Press **8** six times.
- 5 Press **4** six times.
- 6 Press **3** five times.
- 7 Press **7** eight times.
- 8 When finished, press the **OK** soft key.

To continue to store the telephone number, proceed to step 5 in “Phonebook (Storing Phone Numbers, Names, Distinctive Rings, and Speed dial)” on [page 19](#).



If the next character uses the same number key, you must press **/>* to move the cursor over. Otherwise the next time you press the number key, it changes the character that was previously set.

Viewing the Phonebook

Your phone stores names/numbers in the phonebook memory locations, and you can search names in alphabetical order. You can view the phonebook even while the phone is in use.

- 1 Press *phonebook*. If you recall the phonebook during a call, the **COPY** and **STORE** soft key will not appear.
- 2 Press *Δ/vol/∧*, *Δ/vol/∨*, or the number keypad to scroll through the phonebook locations. Phonebook locations appear in alphabetical order (from first to last when you press *Δ/vol/∨*, from last to first when you press *Δ/vol/∧*).



You can also use the letters on the number keys to select the first letter of the desired name. Press a number key (2-9 and 0) once for the first letter, twice for the second letter, and so on. The first location that begins with the letter you entered appears.

For example, to search for **Movies**, press **6** once. Press *Δ/vol/∧* or *Δ/vol/∨*, until the phonebook location is displayed.

- 3 To finish the viewing operation, press *end* (or the **BACK** soft key or *talk/flash* during a call).



During a call, don't press *end* on the handset or the call will be disconnected.

Making Calls Using the Phonebook

From Standby Mode

- 1 When the phone is in standby mode, select the phonebook location to dial (see "Viewing the Phonebook" on [page 21](#)).
- 2 Press *talk/flash* or *speaker* on the handset. The displayed number is dialed.
- 3 To hang up press *end*.



From Talk Mode

- 1 Press *talk/flash* or *speaker*.
- 2 View the phonebook location to dial (see "Viewing the Phonebook" on [page 21](#)).
- 3 Press the **DIAL** soft key. The number in the displayed phonebook location is dialed.
- 4 To hang up press *end*.

Speed Dialing

If you store a phone number in a speed dial memory location (10 locations: SPD1 - SPD0), you can use the speed dialing feature. When the phone is in standby mode, press and hold a number key (0-9) associated with the speed dial until the phone number appears, and then press *talk/flash* or *speaker*. The number stored in the speed dial (SPD1 - SPD0) is dialed.

Editing or Erasing a Stored Name, Phone Number, Distinctive Ring and Speed Dial

- 1 When the phone is in standby mode, press *phonebook*.
- 2 Press $\Delta/vol/\wedge$, $\Delta/vol/\vee$, or the number keypad to select the phonebook locations (see "Viewing the Phonebook" on [page 21](#)).



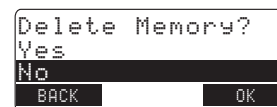
Editing the Stored Data

- 1 When the phonebook location to be edited appears, press the **EDIT** soft key. Store/Edit Name appears.
- 2 Follow the steps 3 to 7 under "Phonebook (Storing Phone Numbers, Names, Distinctive Rings, and Speed Dial)" on [page 19](#) to complete the editing operation.
- 3 Press the **OK** soft key. You will hear a confirmation tone.



Deleting the Stored Data

- 1 When the phonebook location to be deleted appears, press the **DELETE** soft key. Delete Memory? appears.
- 2 Press $\Delta/vol/\wedge$ or $\Delta/vol/\vee$ to move the pointer to Yes.
- 3 Press the **OK** soft key. You hear a confirmation tone.



Deleted! appears in the display.

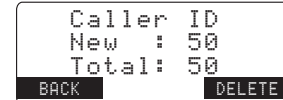
Caller ID

Viewing the Caller ID List

You can view the Caller ID list through the handset during a call or when the phone is in standby mode.

- 1 Press *cid*.

The summary screen appears. The screen shows the number of new messages and total messages.



- 2 To view the Caller ID messages in historical order (from new to old or from old to new), repeatedly press Δ /*vol*/ ∇ to scroll through the messages from the latest to the earliest, or Δ /*vol*/ \wedge to scroll back through the messages.

To view the Caller ID messages with alphabetical search, press the number key pad (2-9 and 0) with the letter associated with the first letter of the desired message.



Once you view the Caller ID list with alphabetical search, you cannot switch back to historical order (from new to old or from old to new) unless you exit and re-enter the operation.

- 3 To finish the viewing operation, press *end* (or the **BACK** soft key or *talk/flash* during a call).



- During a call, do not press *end* on the handset or the call will be disconnected.
- Once the Caller ID data has been deleted, the information cannot be retrieved.

Deleting a Caller ID Message

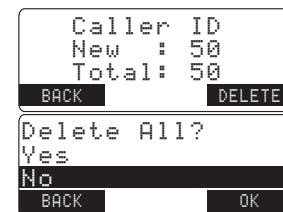
Deleting Information from the Caller ID List

- 1 When the phone is in standby mode, view the Caller ID information to be deleted (see "Viewing the Caller ID List").
- 2 Press the **DELETE** soft key. Delete Caller ID appears.
- 3 Press Δ /*vol*/ \wedge or Δ /*vol*/ ∇ to choose Yes.
- 4 Press the **OK** soft key. You will hear a confirmation tone.



Deleting all Caller ID Names/Numbers

- 1 When the phone is in standby mode, press *cid*.
- 2 Press the **DELETE** soft key. Delete All? appears.
- 3 Press Δ /*vol*/ \wedge or Δ /*vol*/ ∇ to choose Yes.
- 4 Press the **OK** soft key. You will hear a confirmation tone.

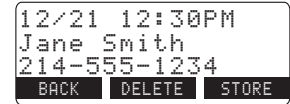


Using the Caller ID Message List

Calling a Party from the Caller ID List

Standby Mode

- 1 When the phone is in standby mode, select the Caller ID message (see "Viewing the Caller ID List" on [page 23](#)).
- 2 To have the phone dial a "1" before the displayed Caller ID number, press **/tone/*<. To have the phone dial the stored area code before the displayed Caller ID number, press *#/*>.
- 3 Press *talk/flash* or *speaker*. The displayed phone number dials automatically.



Talk Mode

- 1 When the phone is in talk mode, select the Caller ID message you want to dial (see "Viewing the Caller ID List" on [page 23](#)).
- 2 Press the **DIAL** soft key, and the number will be dialed.

Storing Caller ID Messages in the Phonebook

Messages shown in the Caller ID list can be stored in the phonebook. The phone number and name of the party on the Caller ID list can be stored in memory.

- 1 When the phone is in standby mode, select the Caller ID message to be stored.

Then press the **STORE** soft key. *Store/Edit Name* appears. If the Caller ID message is already stored in memory, you will hear a beep and *This data is already stored!!* appears. The number will not be stored.

- 2 To complete the setting, follow the steps 3-8 in "Phonebook (Storing Phone Numbers, Names, Distinctive Rings, and Speed dial)" on [page 19](#).



- When a long distance call has been set, "1" appears in the display.
- If the Caller ID message was received as a private/unknown number, or the message does not have the number, you cannot store the message in the Phonebook. If it was received as private/unknown name, the message will be stored as <No Name>.
- Even if the 100 memory locations are full, the message will be stored in the Phonebook. However, the message will be erased from the Caller ID list.

Additional Information

Changing the Digital Security Code

The digital security code is an identification code used to connect the handset and the base unit. Normally, setting the code is not necessary. In the rare situation that you suspect another cordless telephone is using the same security code, you can change the code. To change the digital security code:

- 1 De-register the handset (see "Deregister the handset" on [page 13](#)).
- 2 Register the handset by following step 2-3 in "Registering the handset" on [page 9](#).

Find Handset

To locate the handset, press *find handset* on the base when the phone is in standby mode. All registered handsets beep for 60 seconds, and *Paging* appears on the handset display. To cancel paging, press any key on the handset or *find handset* on the base..



If the battery pack is completely drained, the handset will not beep when paging.

Installing the Beltclip

To Attach the Beltclip

Insert the beltclip into the holes on each side of the handset. Press down until it clicks

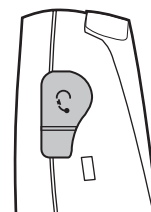


To Remove the Beltclip

Pull either side of the beltclip to release the tabs from the holes.

Headset Installation

Your phone can be used with an optional headset. To use this feature, insert the headset plug into the headset jack. Your phone is ready for hands-free conversations. (Headset can be purchased by calling your local NEC Representative.)



Note on Power Sources

Battery Replacement and Handling

When the operating time becomes short, even after a battery is recharged, please replace the battery. With normal usage, your battery should last about one year. Please contact your local NEC Representative.

Warning

To avoid the risk of personal injury or property damage from fire or electrical shock, only use the NEC battery model and NEC adapter model specifically designated for this product.

Power Failure

During the period that the power is off, you will not be able to make or receive calls with the telephone.

Caution

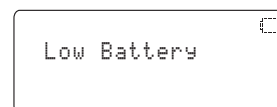
- Use only the specified NEC battery pack.
- Do not remove the batteries from the handset to charge them.
- Never throw the battery into a fire, disassemble them, or heat them.
- Do not remove or damage the battery casing.

Low Battery Alert

When the battery pack is very low, the phone is programmed to eliminate functions in order to save power.

The battery pack needs to be charged when:

- The empty battery icon appears.
- Low Battery appears in the display.



If the phone is in standby mode, none of keys will operate. If you are on a call, complete your conversation as quickly as possible, and return the handset to the cradle.



Even when the battery pack is not being used, it will gradually discharge over a long period of time. For optimum performance, be sure to return the handset to the base unit after each telephone call.

Cleaning the Battery Charging Contacts

To maintain a good charge, it is important to clean the charging contacts on the handset once a month. Using water only, dampen a cloth to clean the charging contacts. Then make sure to go back over the charging contacts with a dry cloth before returning the handset to the base to charge.

Caution: Do not use paint thinner, benzene, alcohol, or other chemical products. Doing so can discolor the surface of the telephone and damage the finish.



General Information

The phone complies with FCC Parts 15 and 68. Operating temperature: 0 °C to +50 °C (+32 °F to +122 °F)

AC Adapter Information

Input Voltage: 120 AC 60Hz

Output Voltage: 9V DC 350mA

Battery Information

Capacity: 800mAh, 3.6V



- To avoid damage to the phone use only the NEC replacement batteries, base and charger with your phone.
- If the handset is left off of the base, the actual Talk mode duration will be reduced respective to the amount of time the handset is off the base.

Recharge your phone on a regular basis by returning the handset to the base after each phone call. When the operating time becomes short even after the battery is recharged, please replace the battery. With normal usage, the battery should last about one year.

Specifications, features, and availability of optional accessories are all subject to change without prior notice.

Replacement Item Part Numbers

Description	Part Number
AC Adapter For Base	730635
Belt Clip	730636
DTR-1R-2 D ^{term} Analog Cordless II	730093
Replacement Battery	730637
Wall Mount Plate	730638

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Troubleshooting

If your phone is not performing to your expectations, please try these simple steps first.

Symptom	Suggestion
The charge LED won't illuminate when the handset is placed in the cradle.	<ul style="list-style-type: none"> • Make sure the AC adapter is plugged into the base or the charger (if you have more than one handset) and wall outlet. • Make sure the handset is properly seated in the cradle. • Make sure the charging contacts on the handset are clean.
The audio sounds weak.	<ul style="list-style-type: none"> • Move the handset and/or base away from metal objects or appliances and try again. • Make sure that you are not too far from the base.
Can't make or receive calls.	<ul style="list-style-type: none"> • Check both ends of the base telephone line cord. • Make sure the AC adapter is plugged into the base and wall outlet. • Disconnect the AC adapter for a few minutes, and then reconnect it. • De-register the handset (see "De-register the Handset" on page 13) and register the handset (see "Register the Handset" on page 9). • Make sure that you are not too far from the base. • Make sure the line is not in use. • If an outside call is already established, you can not make another outside call.
The handset doesn't ring or receive a page.	<ul style="list-style-type: none"> • Charge the batteries in the handset for 15~20 hours by placing the handset on the base or charging cradle. • Make sure that you are not too far from the base. • De-register the handset (see "De-register the Handset" on page 13) and register the handset (see "Register the Handset" on page 9).
Unavailable appears in the display.	<ul style="list-style-type: none"> • Make sure that you are not too far from the base.
Severe noise interference.	<ul style="list-style-type: none"> • Keep the handset away from microwave ovens, computers, remote control toys, wireless microphones, alarm systems, intercoms, room monitors, fluorescent lights, and electrical appliances. • Move to another location or turn off the source of interference.
The Caller ID does not display.	<ul style="list-style-type: none"> • The handset was picked up before the second ring. • The call was placed through a switchboard. • Call your local telephone company to verify your Caller ID service is current. There can be a problem with your Caller ID service.
You cannot register the handset at the base.	<ul style="list-style-type: none"> • Charge the battery pack for 15~20 hours. • De-register the handset (see "De-register the Handset" on page 13) and register the handset (see "Register the Handset" on page 9).
If you still have a problem.	<ul style="list-style-type: none"> • Contact your authorized NEC Representative.

Liquid Damage

Moisture and liquid can damage your cordless phone. In case of accidental submersion, please read the following steps.

Case	Action
If the handset or base is exposed to moisture or liquid, but only affects the exterior plastic housing.	Wipe off the liquid, and use as normal.
If moisture or liquid has entered the plastic-housing (i.e. liquid can be heard in the phone or liquid has entered the handset battery compartment or vent openings on the base).	<p>Handset:</p> <ol style="list-style-type: none"> 1 Remove the battery cover and leave it off for ventilation. 2 Remove the battery pack by disconnecting. 3 Leave the battery cover off and the battery pack disconnected for at least 3 days. 4 Once the handset is completely dry, reconnect the battery pack and the battery cover. 5 Recharge the handset's battery pack for 20 hours before using again. <p>Base:</p> <ol style="list-style-type: none"> 1 Disconnect the AC adapter from the base unit, cutting off electrical power. 2 Disconnect the telephone cord from the base unit. 3 Let dry for at least 3 days. <p>IMPORTANT: You must unplug the telephone line while recharging the battery pack to avoid charge interruption.</p> <p>CAUTION: DO NOT use a microwave oven to speed up the drying process. This will cause permanent damage to the handset, base and the microwave oven. After following these steps, if your cordless telephone does not work, please contact your local NEC Representative.</p>

Precautions and Warranty

Precautions!

Before you read anything else, please observe the following:

Warning!

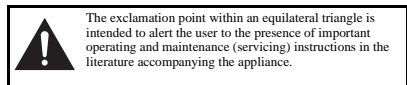
NEC Unified Solutions, Inc. DOES NOT represent this unit to be waterproof. To reduce the risk of fire, electrical shock, or damage to the unit, DO NOT expose this unit to rain or moisture.

Rechargeable Nickel-Metal-Hydride Battery

Warning

- This equipment contains a rechargeable Nickel-Metal-Hydride battery.
- Nickel is a chemical known to state of California to cause cancer.
- The rechargeable Nickel-Metal-Hydride battery contained in this equipment may explode if disposed of in a fire.
- Do not short-circuit the battery.
- Do not charge the rechargeable Nickel-Metal-Hydride battery used in this equipment in any charger other than the one designed to charge this battery as specified in the owner's manual. Using another charger may damage the battery or cause the battery to explode.

Rechargeable Nickel-Metal-Hydride Batteries Must Be Recycled or Disposed of Properly



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

NEC works to reduce lead content in our PVC coated cords in our products and accessories.

Warning!

The cords on this product and/or accessories contain lead, a chemical known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling.*

Important Safety Instructions

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

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. Use a dry cloth for cleaning without liquid or aerosol cleaners.
4. Do not use this product near water; for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The telephone may fall, causing serious damage to the unit.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect the product from overheating, these openings must not be blocked or covered.

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 unless proper ventilation is 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 damaged by persons walking on it.
9. Do not overload wall outlets and extension cords, as this can result in the risk of fire or electrical shock.
10. 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.
11. To reduce the risk of electric shock, do not disassemble this product. Take it to qualified service personnel when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power supply cord 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 when following the operating instructions. (Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive repair work by a qualified technician.)
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance.
13. Do not use the telephone to report a gas leak in the vicinity of the leak.

Additional Battery Safety Precautions

Caution! To reduce the risk of fire or injury to persons by the battery, read and follow these instructions:

1. Use only the NEC battery pack specified in the owner's manual.
2. Do not dispose of the battery pack in a fire. The cell may explode. Check the Nickel Metal Hydride battery disposal package insert for disposal instructions.
3. Do not open or mutilate the battery pack. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling the battery in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
5. Charge the battery pack provided with or identified for use with this product only in accordance with the instructions and limitations specified in the owners manual provided for this product.
6. Observe proper polarity orientation between the battery pack and battery charger.

SAVE THESE INSTRUCTIONS!

Important Electrical Considerations

Unplug all electrical appliances when you know an electrical storm is approaching. Lightning can pass through your household wiring and damage any device connected to it. This phone is no exception.

The FCC Wants You To Know

Changes or modifications to this product not expressly approved by NEC Unified Solutions, Inc., or operation of this product in any way other than as detailed by the owner's manual, could void your authority to operate this product. Your telephone complies with Part 68 of FCC Rules. You must, upon request, provide the FCC registration number and the REN to your telephone company. Both numbers are on the base unit.

Note: You must not connect your phone to:

- coin-operated systems
- most electronic key telephone systems

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. Privacy of communications, may not be ensured when using this phone.

To insure the safety of users, the FCC has established criteria for the amount of radio frequency energy various products may produce depending on their intended usage. This product has been tested and found to comply with the FCC's exposure criteria. For body worn operation, the FCC RF exposure guidelines were also met when used with the NEC accessories supplied or designed for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines and should be avoided.

Range

Your new phone is designed to achieve the maximum possible range by transmitting and receiving according to the highest specifications set forth by the FCC. We have rated this phone to operate at a maximum distance with the qualification that the range depends upon the environment in which the telephone is used. Many factors limit range, and it would be impossible to include all the variables in our rating. The Maximum Range rating of this phone is meant to be used as a means of comparison against other range claims.

Telephone Line Problems

The FCC has granted the telephone company the right to disconnect service in the event that your phone causes problems on the telephone line. Also, the telephone company may make changes in facilities and services which may affect the operation of your unit. However, your telephone company must give adequate notice in writing prior to such actions to allow you time for making necessary arrangements to continue uninterrupted service. If you are having trouble with your telephone service, you must first disconnect your phone to determine if it is the cause of your problem. If you determine that it is the cause, you must leave it disconnected until the trouble has been corrected.

Radio Interference

Radio interference may occasionally cause buzzing and humming in your cordless handset, or clicking noises in the base. This interference is caused by external sources such as TV, refrigerator, vacuum cleaner, fluorescent lighting, or electrical storm. Your unit is NOT DEFECTIVE. If these noises continue and are too distracting, please check around your home to see what appliances may be causing the problem. In addition, we recommend that the base not be plugged into a circuit that also powers a major appliance because of the potential for interference. Be certain that the antenna on the unit is fully extended when needed.

In the unlikely event that you consistently hear other voices or distracting transmissions on your phone, you may be receiving radio signals from another cordless telephone or other source of interference. It should be noted that some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference.

Cordless Telephone Privacy

Cordless telephones are radio devices. Communications between the handset and base of your cordless telephone are accomplished by means of radio waves which are broadcast over the open airways.

Because of the inherent physical properties of radio waves, your communications can be received by radio receiving devices other than your own cordless telephone unit. Consequently, any communications using your cordless telephone may not be private.

Installation Considerations

Selecting a Location

Before choosing a location for your new phone, there are some important guidelines you should consider:

- The location should be close to both a phone jack and continuous power outlet. (A continuous power outlet is an AC outlet which does not have a switch to interrupt its power.)
- Keep the base and handset away from sources of electrical noise such as motors or fluorescent lighting.
- Be sure there is sufficient space to fully extend the base antenna.
- The base can be placed on a desk or tabletop or mounted on a standard telephone wall plate.
- You should charge your new phone for 15–20 hours before completing the installation or using the handset.

Telephone Line Outlets

There are two types of phone outlets:

Modular Jack

Most phone equipment available now uses modular jacks. Phone cords are fitted with a molded plastic connector which plugs into this type of jack. If you do not have modular phone jacks, contact your local telephone company for information about their installation.

Hardwired Jack

Some equipment is wired directly to a phone jack, and these types of installations require a modular jack converter. This type of installation is not difficult; however, you should contact your authorized NEC telephone representative or a telephone supply store for advice about the proper adapter or converter for your particular situation.

Connecting the Telephone Cords

Consider these safety guidelines before connecting the telephone cords:

Caution!

- *Never install telephone wiring during a lightning storm.*
- *Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected.*
- *Use caution when installing or modifying telephone lines.*

Applying Power to the Base

This phone requires an AC outlet, without a switch to interrupt power, and the included AC adapter. To relieve strain on the DC plug when the phone is placed on a desk or table, wrap the power cord around the strain relief notch on the bottom of the base.

NOTE: Place the power cord so that it does not create a trip hazard, or where it could become chafed and create a fire or other electrical hazards.

One Year Limited Warranty

Important: Evidence of original purchase is required for warranty service. WARRANTOR: NEC AMERICA CORPORATION ("NEC") ELEMENTS OF WARRANTY: NEC warrants, for one year, to the original retail owner, this NEC Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by NEC, (C) improperly installed, (D) serviced or repaired by someone other than an authorized NEC service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by NEC, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America and Canada.
PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, contact your NEC Representative.

I.C. Notice

Terminal Equipment

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 marked on the equipment itself. 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.

Radio Equipment

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

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. "Privacy of communications may not be ensured when using this telephone".

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NEC

D^{term}® Analog Cordless II
(DTR-1R-2)

User's Manual

Made in China
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