# RadioShack.

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# 2.4 GHz 2-Line Digital Spread Spectrum Cordless Phone

## with Call Waiting/Caller ID

Owner's Manual

Please read before using this equipment.

# ❒ *Important Information*

This telephone has been tested and found to comply with all applicable UL and FCC standards.

> **WARNING:** To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

| ⚡ | **CAUTION**<br>RISK OF ELECTRIC SHOCK.<br>DO NOT OPEN. | ! |
|:---:|:---:|:---:|
| **CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL. | | |

⚡ This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

! This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

## READ THIS BEFORE INSTALLATION

We have designed your phone to conform to federal regulations, and you can connect it to most telephone lines. However, each phone and each device, such as a telephone or answering machine, that you connect to the telephone line draws power from the telephone line. We refer to this power draw as the device's ringer equivalence number, or REN. The REN is on the bottom of your phone.

If you use more than one phone or other device on the line, add up all of the RENs. If the total is more than five (three in rural areas), your telephones might not ring. If ringer operation is impaired, remove a device from the line.

**Important:** Cordless phones such as this one require AC power to operate. When the AC power is off, you cannot dial out or receive incoming calls using your cordless phone. For this reason, this phone should not be your only telephone. To be safe, you should also have a phone that does not require AC power to operate (not a cordless phone) so you can still make and receive calls if there is an AC power failure.

Some cordless phones operate at frequencies that might cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless phone should not be placed near or on top of a TV or VCR.

## FCC STATEMENT

Your phone 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 bottom of your phone.

**Note:** You must not connect your phone to:

- coin-operated systems
- party-line systems
- most electronic key telephone systems

## THE FCC WANTS YOU TO KNOW

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.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult your local RadioShack store or an experienced radio/TV technician for help.

If you cannot eliminate the interference, the FCC requires that you stop using your cordless phone.

In the unlikely event that this phone causes problems on the phone line, the phone company can temporarily discontinue your service. If this happens, the phone company attempts to notify you in advance. If advance notice is not practical, the phone company notifies you as soon as possible and advises you of your right to file a complaint with the FCC.

Also, the phone company can make changes to its lines, equipment, operations, or procedures that could affect the operation of this telephone. The telephone company notifies you of these changes in advance, so you can take the necessary steps to prevent interruption of your telephone service.

## LIGHTNING

Your telephone has built-in protection circuits to reduce the risk of damage from surges in telephone line and power line current. These protection circuits meet or exceed the FCC requirements. However, lightning striking the telephone or power lines can damage your telephone.

Lightning damage is not common. Nevertheless, if you live in an area that has severe electrical storms, we suggest that you unplug your phone when storms approach to reduce the possibility of damage.

## 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 to persons, including the following:

1. Read and understand all instructions.

2. Follow all warnings and instructions marked on the product.

3. Never install telephone wiring during a lightning storm.

4. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.

5. Never touch uninstalled telephone wires or terminals unless the telephone line

has been disconnected at the network interface.

6. Use caution when installing or modifying telephone lines.

7. Do not fix the AC power supply cord to building surfaces with metal fittings (if the product has an AC power cord).

8. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

9. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

10. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

11. 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 or covered. The openings should never be blocked by placing the product on a 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 unless proper ventilation is provided.

12. 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 local power company.

13. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be stepped on.

14. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

15. 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.

16. To reduce the risk of electric shock, do not disassemble this product. Take it to a qualified service technician when service or repair work is required. Opening or removing covers may expose you to dangerous voltage or other risks. Incorrect reassembly can cause electric shock when the product is subsequently used.

17. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

• When the power cord plug is damaged or frayed.

• If liquid has been spilled into the product.

• If the product has been exposed to rain or water.

• 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 qualified technician to restore the product to normal operation.

• If the product has been dropped or the cabinet has been damaged.

• If the product exhibits a distinct change in performance.

18. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

19. Do not use the telephone to report a gas leak in the vicinity of the leak.

## BATTERY SAFETY INSTRUCTIONS

**Caution:** To reduce the risk of fire or injury, read and follow these instructions.

1. Use only the appropriate type and size battery pack specified in the instruction manual provided for this product.

2. Do not dispose of the battery pack in a fire. The cell may explode. Check with local codes for possible special 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 pack in order not to short it with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.

5. Charge the battery pack provided or identified for use with this product only in accordance with the instructions and limitations specified in the instruction manual provided for this product.

6. Observe proper polarity orientation between the battery pack and battery charger.

## SAVE THESE INSTRUCTIONS

# ☐ *Contents*

# ☐ *Features*

Your RadioShack 2.4 GHz 2-Line Digital Spread Spectrum Cordless Speakerphone uses advanced cordless telephone technology to give you superior audio quality and extended range. The phone lets you place and receive calls on two separate telephone lines. It is designed to exacting standards that ensure reliability, long life, and outstanding performance.

The phone's Caller ID unit records each caller's telephone number (and name, if available in your area) and the date and time of the call, as provided by your local phone company to Caller ID service subscribers. If you subscribe to Call Waiting with Caller ID, the phone can show you the incoming caller information, even when you are already on the phone.

Your phone has these features:

**2.4 GHz Operation** — provides longer range with less interference than many other cordless phones.

**Spread Spectrum Technology** — spreads the signal across several frequencies, providing additional security for your phone conversations.

**Caller ID Memory** — stores up to 80 Caller ID records (40 for each line).

**Speakerphone** — lets you make or answer calls without using the handset.

**Dual Keypads** — a set of keys on both the phone's handset and base let you use either keypad to make and answer calls or use the phone's features.

**Backlight** — lights the handset's keypad when you press a button or when a call comes in to facilitate operation in a dark room.

**40-Number Memory Dialing** — lets you store up to 40 numbers in memory (30 on the handset and 10 on the base) for easy dialing.

**Paging/Two-Way Intercom System** — lets you send a signal from the base to the handset, or from the handset to the base, to page someone or locate the handset when it is away from the base. If someone answers, you can use the phone as an intercom.

**3-Line Liquid Crystal Display** — lets you view an entire Caller ID record on one screen.

**Volume Control** — lets you adjust the volume you hear through the handset.

**Adjustable Ringer** — lets you choose high or low volume for the ringers or turn it off on the handset and the base.

**Facedown or Faceup Handset Charging** — you can place the handset on the base facedown or faceup.

**Ample Talk and Standby Time** — the supplied battery pack provides 6 hours of continuous talk time or 7 days of standby time (when fully charged).

**35 Channels** — automatically selects a clear channel when you make or answer a call.

**Security Access-Protection Code** — automatically prevents other cordless phone users from using your phone line while the handset is off the base.

**Two-Line Telephone System** — lets you easily handle two telephone lines at the same time. You can use both lines to make 3 or 4 way conference calls, or one line for data communication while you are talking on the other.

**Line Status Indicators** — show if a line is available, in use, or on hold.

**Headset Jack** — lets you make or answer calls with handsfree convenience using an optional headset.

**Auto Talk** — you can set the phone so you can answer a call by just lifting the handset from the base.

**Any Key Answer** — you can set the phone so you can press any key to answer a call when the handset is away from the base.

**Redial** — lets you quickly redial any of the last three numbers dialed on the handset, or the last number dialed on the base.

**Flash** — sends an electronic switchhook signal for use with special phone services, such as Call Waiting.

**Tone/Pulse Dialing** — lets you use your phone with either type of service, and you can easily switch from pulse to tone dialing for long-distance, bank-by-phone, or other special services.

**Hearing-Aid Compatibility** — lets you use your phone with hearing aids by setting the handset volume to loud.

## IMPORTANT CALLER ID INFORMATION

To use the phone's Caller ID and Caller ID with Call Waiting features, you must be in an area where those services are available and you must subscribe to those services through your local phone company.

Where Caller ID is offered, one or more options are generally available:

- caller's number only

- caller's name only

- caller's name and number

# ❐ *Installation*

## MOUNTING THE PHONE

You can place the phone's base on a desk or table, or mount it on a standard wall plate or directly on a wall. Choose a location that is:

- near an AC outlet

- near a modular telephone line jack

- out of the way of normal activities

- away from electrical machinery, electrical appliances, metal walls or filing cabinets, wireless intercoms, alarms, and room monitors

- away from other cordless phones

The base's location affects the handset's range. If you have a choice of several locations, try each to see which provides the best performance.

### Connecting to the Phone Lines

To take full advantage of the phone's capabilities, you must have two phone lines with separate phone numbers. If you have only one line, you can order a second from your phone company.

You can connect the phone to the lines in one of three ways:

- connect two lines through a two-line modular phone jack

- connect two lines through two one-line modular phone jack

- connect one line through a one-line modular phone jack.

**Notes:**

- Your telephone connects directly to a modular telephone line jack. If your telephone wiring does not have a modular jack, you can update the wiring yourself using jacks and adapters (available at your local RadioShack store), or have the telephone company update the wiring for you. You must use compatible modular jacks that are compliant with Part 68 of *FCC Rules*.

- The line that connects a two-line phone jack to the phone company wiring must be twisted-pair cable. Otherwise, you might hear interference (crosstalk) between the two lines.

- The USOC number of the two-line jack to be installed is RJ14C (RJ14W for a wall plate). The USOC number of a single-line jack is RJ11C.
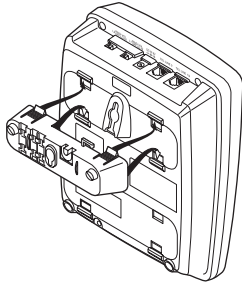
**Cautions:**

⚠ You must use a Class 2 power source that supplies 9V DC and delivers at least 400 mA. Its center tip must be set to positive and its plug must fit the phone's **DC IN 9V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the phone or the adapter.

- Always connect the AC adapter to the phone before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the phone.

- The supplied RadioShack adapter was designed specifically for your phone. Use only the supplied adapter.

## On a Desk Top

1. Insert the bracket's tabs into the base's upper tab slots, then press down on the bracket's clips and insert them into the clip slots.

2. *To connect the phone to a two-line phone jack*, plug one end of the supplied long two-line modular cord into the **TEL LINE 1/2** jack on the back of the phone. Route the cord through the strain-relief slot on the bracket.

   **Note:** If you connect the phone to a two-line phone jack with a two-line cord, do not connect a third line to the **TEL LINE 2** jack or the phone will not operate properly. Instead, you can connect another phone device, such as a fax machine or modem.

   *To connect the phone to two one-line phone jacks*, plug one end of the supplied long two-line modular cord into **TEL LINE 1/2** and plug another cord (not supplied) into the **TEL LINE 2** jack. Route both cords through the strain-relief slot on the bracket.

   *To connect the phone to a single one-line phone jack*, plug one end of the supplied long modular cord into the **TEL LINE 1/2** or **TEL LINE 2** jack. Route the cord through the strain-relief slot on the bracket.
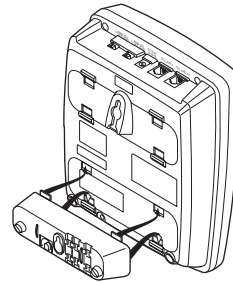
3. Plug the supplied AC adapter's barrel plug into the **DC IN 9V** jack on the back of the base and route the adapter's cord through the strain relief slot on the bottom of the bracket.

4. Plug the adapter into a standard AC outlet.

5. Connect the phone cord(s) to the modular phone line jack(s).

6. Raise the base's antenna to a vertical position.

## On a Wall Plate or Wall

1. Insert the bracket's tabs into the base's lower tab slots, then press down on the bracket's clips and insert them into the clip slots.

2. Connect the phone line(s) as described in "On a Desk Top". Use the shorter modular cord to mount the phone on the wall plate.

3. Insert the supplied AC adapter's barrel plug into the **DC IN 9V** jack on the back of the base.

4. Route the adapter's cord through the narrow groove on the bracket. If you are using two phone cords, route the second cord through one of the wide grooves on the bracket.

5. Plug the other end of the short modular cord into the wall plate jack, then align the keyhole slots with the wall plate studs and slide the base downward to

secure it. If you are using two phone cords, plug the second cord into the second phone jack.

6. Plug the adapter into a standard AC outlet.

7. Press and lift out the handset holder, flip it over, then snap it back into place.

8. Raise the base's antenna to a vertical position.

**Note:** To mount the phone directly on a wall, you need two screws of at least $1^3/_8$ inch long (not supplied) with heads that fit into the keyhole slots on the bottom of the base. Follow the steps under "On a Wall Plate or Wall" on Page 11, then apply these additional instructions for placement on a wall.

1. Drill two holes $3^{15}/_{16}$ inches (100 mm) apart. Then thread a screw into each hole, letting the heads extend about $1/_8$ inch (3 mm) from the wall.

2. Plug one end of the supplied long modular cord into the **TEL LINE 1/2** jack on the back of the base.

   To connect the phone to two one-line jack, plug another cord (not supplied) into the **TEL LINE 2** jack.

3. Route the adapter cable and modular cord(s) through the grooves on the bracket.

4. Align the base's keyhole slots with the mounting screws and slide the base downward to secure it.

# CONNECTING, CHARGING, AND REPLACING THE BATTERY PACK

The phone comes with a rechargeable nickel-cadmium battery pack installed in the handset, but not connected. Before using your phone, you must connect the battery pack, then charge it for about 24 hours.

1. Press down then slide off the battery compartment cover.

2. Lift the battery pack out of the compartment.

3. Plug the battery pack's connector into the socket in the compartment (the connector fits only one way), replace the battery pack, then replace the cover.

To charge the battery pack, simply place the handset on the base, facing either up or down. The base's CHARGE indicator lights.

Recharge the battery pack when **Low Battery** flashes on the handset's display.

**Important:** Be sure the battery pack is properly connected before you try to charge it. The CHARGE indicator lights when the handset is on the base even if the battery pack is not properly connected.

**Notes:**

• When you first use the phone after charging or recharging the battery pack, the phone might not work and you might hear an error tone when you press **LINE 1** or **LINE 2**. If this happens, return the handset to the base for about 5 seconds. This resets the security access-protection code.

• Using a pencil eraser, clean the charging contacts on the handset and the base about once a month.

- If the handset's display is blank and the phone does not work, recharge the battery pack. (The battery power might be too low to light the display.)

- If the battery pack becomes weak during a call, the handset beeps every 3 seconds and **Low Battery** flashes. When this happens, you cannot make another call on the phone until you recharge the battery pack.

- About once a month, fully discharge the battery pack by keeping the handset off the base until **Low Battery** flashes. Otherwise, the battery pack loses its ability to fully recharge.

- If the battery pack is completely discharged or the base loses power while the handset is away from it, place the handset on the base to reset the security access-protection code. If the handset loses power, recharge the battery pack.

The supplied battery pack should last about one year. If the battery pack does not hold a charge for more than 2 hours after an overnight charge, replace it with a new 3.6-volt, 600 mAh battery pack with a connector that fits the socket in the battery compartment. You can order a replacement battery pack through your local RadioShack store.

**Note:** To avoid losing memory numbers, install and begin charging the new battery pack within 2 minutes.

**Warning:** Dispose of the old battery pack promptly and properly. Do not burn or bury it (see "Battery Safety Instructions" on Page 5 for additional information on proper battery handling).

If you have trouble replacing the battery, take the phone to your local RadioShack store for assistance.

**Important:** The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates RadioShack is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-THE-SHACK (1-800-843-7422) for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. RadioShack's involvement in this program is part of the company's commitment to preserving our environment and conserving our natural resources.

# SETTING THE DIALING MODE

Your phone comes set for tone dialing. If you have pulse service, you need to change the dialing mode. If you are not sure which type of service you have, do this test.

Press **LINE 1** on the base. The LINE 1 SPEAKER indicator lights. Listen for a dial tone, then press any number other than **0**.

**Note:** If your phone system requires that you dial an access code (9, for example) before you dial an outside number, do not press the access code either.

If the dial tone stops, you have touch-tone service. If the dial tone continues, you have pulse service.

To set the dial mode, press **LINE 1** to hang up the phone if necessary, then hold down **FLASH** on the base until the phone beeps. Then press **#/ ▶** on the base to set to pulse mode or **✳/TONE/ ◀** on the base to set to tone mode. The phone beeps.

**Note:** The phone exits setting mode if a call or page is received, or if you press **LINE 1** or **LINE 2**.

# ADJUSTING THE RINGER

The phone lets you control its base and handset ringer volume separately. You can choose from a high or low ringer setting or turn the ringer off for the base and the handset.

## On the Handset

In the standby mode, press **DEL/VOL** to set the handset's ringer volume. The display shows Ringer High or Ringer Low.

You can also turn off the ringer. In the standby mode, press and hold **DEL/VOL** until the phone beeps and Ringer Off appears. When you place the handset face-up on the base, <Ringer Off> appears.

You can still make or receive a call even when the ringer is turned off. When you have an incoming call, the base unit (if you have not set **RING VOL** to **OFF**) and any other phone connected to the same line rings, and (Call) appears on the handset's display.

To turn the ringer back on, simply press **DEL/VOL**. The ringer is restored at the Ringer High setting.

## On the Base

Set **RING VOL** on the back of the base to **HI**, **LO**, or **OFF** for each line (**L1** and **L2**). With **RING VOL** set to **OFF**, the base's ringer does not sound when a call is received, but the handset (when it is off the base with the ringer not turned off) and any other phone connected to the same line still ring.

# SETTING AUTO TALK

Your phone is preset so you must press **LINE 1** or **LINE 2** to answer a call. With auto talk turned on, you can answer a call by lifting the handset from the base (or any key on the handset if the handset is away from the base).

**Note:** Auto talk is set for each line separately. For example, when you turn auto talk on for Line 1 only, you must press **LINE 2** to answer a call on line 2.

Follow these steps to turn auto talk on or off.

1. Lift the handset and hold down **CID/HOLD** until Caller ID Setup appears on the display with the pointer at Line 1.

2. Use **∗/TONE/◀** or **#/▶** to select Line 1 or Line 2. Then press **CONF/▼**.

3. A menu appears with Auto Talk selected. Press **SELECT/CH** to change the setting. On or Off appears indicating the selected setting.

4. Press **CID/HOLD** and return the handset to the base.

# SETTING CALLER ID/CALL WAITING

If you have Call Waiting and Caller ID service, you can set the phone to show Caller ID information for an incoming call even while you are already on the phone.

**Note:** Caller ID/Call Waiting function is set for each line separately.

1. Lift the handset and hold down **CID/HOLD** until Caller ID Setup appears on the display with Line 1 selected.

2. Use **∗/TONE/◀** or **#/▶** to select Line 1 or Line 2. Then press **CONF/▼**.

3. A menu appears with **Auto Talk** selected. Press **CONF/▼** to select **CIDCW**, then press **SELECT/CH** to change the setting. **On** or **Off** appears indicating the selected setting.

4. Press **CID/HOLD** and return the handset to the base to store the new setting.

## STORING YOUR AREA CODE

You can store your local area code in the phone's Caller ID record so it does not show the area code if the received call is from your local area. If for some reason you need to dial the area code (or store it in memory), you can add it afterwards. See "Adding/Deleting the Area Code" on Page 25.

**Note:** If your calling area requires 10-digit dialing including area code, do not enter the area code but leave this option blank.

Follow these steps to store your area code.

1. Lift the handset and hold down **CID/HOLD** until **Caller ID Setup** appears on the display with **Line 1** selected.

2. Use **✱/TONE/◀** or **#/▶** to select **Line 1** or **Line 2**. Then press **CONF/▼**.

3. A menu appears with **Auto Talk** selected. Press **CONF/▼** twice to select **Area Code**, then press **SELECT/CH**.

4. Enter your three-digit area code. If you make a mistake, repeatedly press **✱/TONE/◀** or **#/▶** to move the cursor over the incorrect digit, then enter the correct number.

   **Note:** If an area code is already stored, it appears on the display. To delete the area code, press **DEL/VOL** three times, then enter your area code. Or you can use **✱/TONE/◀** or **#/▶** to move the cursor and edit the area code.

5. Press **SELECT/CH** to store the area code, then press **CID/HOLD** and return the handset to the base to store your new entry.

# ❐ *Basic Operation*

**Note:** You can use the keypad on either the handset or the base to operate the phone. To make a call with the speakerphone, you must use the base's keypad; to make a call with the handset, you must use the handset's keypad.

## USING THE HANDSET

### Making a Call

To make a call using the handset, lift the handset and press **LINE 1** or **LINE 2**. Line 1 or Line 2 appears on the handset's display together with current volume setting, and the same line's indicator on the base flashes green. Dial the number. Within a few seconds, the display starts to count the elapsed time.

**Note:** If (Base) or In Use appears above Line 1 or Line 2 on the display, someone is using that line at the base or the extension phone. Press the other line button.

Or, you can enter the number before pressing **LINE 1** or **LINE 2**. The entered number appears on the display. After confirming the number is correct, press **LINE 1** or **LINE 2**.

To end a call, press **LINE 1** or **LINE 2** on the handset or place the handset on the base.

### Answering a Call

When a call comes in, (Call) appears on the display, along with Line 1 or Line 2 (whichever is ringing). Then the display shows the caller's name (if available) and number (if you subscribe to Caller ID), and the indicator for that line flashes at the base.

**Note:** To help you tell which line is ringing, each line has a distinctive tone.

To answer a call, lift the handset and press the ringing line button. If auto talk is on, lift the handset from the base, or if the handset is away from the base, press any key. The display changes to show the elapsed time on the call. If you receive a call on one line while you are using the handset to talk on the other, you hear a three-ring tone through the handset. Press the line button for the incoming call's line. The current call is automatically put on hold.

If both lines have an incoming call, pressing a key answers the line that began ringing first.

### Selecting the Channel

The phone has 35 channels (frequency pairs used between the base and handset). If a call disconnects for no reason, press **SELECT/CH** on the handset to select a different channel.

### Setting the Handset Volume

To increase or decrease the handset's volume during a call, press **DEL/VOL**. Each time you press the button, the volume setting changes and the display shows the level as Volume Low, Volume Medium, Volume High, or Volume Maximum.

## USING THE SPEAKERPHONE

### Making a Call

To make a call using the speakerphone, press **LINE 1** or **LINE 2**, listen for the dial tone, then dial the number. The LINE 1 SPEAKER or LINE 2 SPEAKER indicator lights green on the base, and (Base) and Line 1 or Line 2 ap-

pear on the handset's display as a reminder that the line is in use.

If either line indicator is flashing, someone at the handset is using the line. Press the line button for a line that is not in use.

To end a speakerphone call, simply press **LINE 1** or **LINE 2**. The line indicator turns off.

### Answering a Call

To answer a call using the speakerphone, press **LINE 1** or **LINE 2** (whichever is flashing), or any number key to answer a call. The SPEAKER indicator for the selected line lights. **(Base)** and **Line 1** or **Line 2** appear on the handset's display as a reminder that the line is in use.

If you receive an incoming call on a line while you are talking on the speakerphone on the other line, the other line's indicator flashes and you hear a low ring if you have set **RING VOL** for that line to any position other than **OFF**. Press the line button for the incoming call. The current call is automatically put on hold.

If both lines have an incoming call, pressing a number key answers the line that began ringing first.

### Adjusting the Speakerphone Volume

To set the speakerphone's volume, slide **VOLUME** on the right side of the base.

### Using Mute

While talking on the speakerphone, you can temporarily turn off the phone's microphone by pressing **MUTE** so the other party cannot hear you. The line indicator flashes red when a line is muted. Press **MUTE** again to resume your conversation.

**Note:** Mute is released when you press **IN-TERCOM** or **HOLD**, or you press either line button to switch the line.

## PUTTING A CALL ON HOLD

Press **HOLD** (**CID/HOLD** on the handset) to put a call on hold. The indicator for that line lights red on the base, and the handset display shows **(Hold)** above the line number. While a call is on hold, you can temporarily place the handset on the base or use the other phone line without disconnecting the current call.

To release a line from hold and continue your conversation, press that line's button. You can also release a call from hold by lifting the handset if the handset is on the base, or picking up an extension phone.

You can alternate between the two lines by pressing **HOLD**, then the button for the desired line.

**Note:** Pressing **HOLD** (or **CID/HOLD**) again while a call is on hold does not release the hold. Press the line button that is on hold.

## SWITCHING BETWEEN THE HANDSET AND SPEAKERPHONE

To switch to the speakerphone while you are using the handset, press **CID/HOLD** on the handset, then press that line's button (**LINE 1** or **LINE 2**) on the base.

To switch to the handset while you are using the speakerphone, just lift the handset off the base. Or, if the handset is off the base, press **HOLD** on the base, then press that line's button (**LINE 1** or **LINE 2**) on the handset.

## USING BOTH THE HANDSET AND SPEAKERPHONE

To use the handset to join a call at the base, or to use the base to join a conversation at the handset, press the line button for the line in use. You hear a busy tone: before the tone ends, press the line button again.

During the call, you can hang up the base or the handset and the call can continue. To end the call, you must hang up both the base and handset.

**Note:** If you hear a high-pitched noise from the base's speaker, the handset and the base are too close together.

To talk with two parties using both lines, see "4-Way Conferencing."

## MAKING A CONFERENCE CALL

### 3-Way Conferencing

Follow these steps to use both phone lines to set up a 3-way call. The procedure is the same for the handset and the base.

1. Place the first call on hold.

2. Make or answer a call on the other line.

3. Once you have the second party on the line, press **CONF** (**CONF/▼** on the handset) to bring in the first party. Both line indicators on the base light green. The handset display shows (Conference) above Line 1 Line 2 if you are making a conference call using the handset, (Conf Base) and Line 1 Line 2 if you are using the speakerphone for conference.

4. To end the conference call, press one line button, then the other. If you want to hang up one line and continue talking on

the other, press the line button you want to hang up.

If you want to talk on one line without disconnecting the other, press **HOLD** or **CID/HOLD**, then the button for the line you want to talk on. To return to a 3-way conversation, press **CONF** or **CONF/▼** .

**Note:** To make a 3-way conference using one outside line and the two keypads, see "Using the Paging/Intercom Features" on Page 19.

### 4-Way Conferencing

Follow these steps to use both lines to set up a four-way call. The procedure is the same for the handset and the base.

1. Make a 3-way conference call on one keypad (handset or base).

2. Press **INTERCOM** (**▲/INTCM** on the handset) to page the other keypad. The outside lines are put on hold.

3. At the other keypad press **INTERCOM** or **▲/INTCM** to answer the page, then press **CONF** (**CONF/▼** on the handset) on either keypad.

4. To end the conference call, press **LINE 1** and **LINE 2** on one keypad, then press **LINE 2** on the other keypad.

If you want to hang up one line and continue talking on the other, press the line button that you want to hang up.

**Note:** You can also make a conference call using both the phone and an extension phone (See "Using the Phone with Extension Phones" on Page 19).

## USING THE PHONE WITH EXTENSION PHONES

The phone detects when an extension phone is in use. The corresponding line indicator flashes on the base and **In Use** flashes on the handset's display along with **Line 1** or **Line 2**.

To join the conversation from the handset or base, press the line button for the line in use. While the busy tone is sounding, press the line button again.

**Note:** If you hang up the phone and someone is still on that line on an extension, the phone's line indicator(s) might not stay lit.

## USING REDIAL

You can quickly dial any of the last three numbers dialed on the handset using either line 1 or line 2. Repeatedly press **REDIAL/PAUSE** on the handset until the number desired appears, then press **LINE 1** or **LINE 2**.

To dial the last number dialed on the base, press **LINE 1** or **LINE 2** on the base then **REDIAL/PAUSE**.

**Notes:**

- Each keypad has a separate redial memory. You cannot redial a number you dialed on one keypad using the redial key on the other.

- You can redial the number you originally dialed on Line 1 using Line 2, as long as you use the same keypad as previous.

- The redial memory holds up to 32 digits, so you can redial long distance as well as local numbers.

## USING FLASH

**FLASH** performs the electronic equivalent of a switchhook operation for special services, such as Call Waiting.

For example, if you have Call Waiting, press **FLASH** to answer an incoming call without disconnecting the current call. Press **FLASH** again to return to the first call.

**Note:** If you do not have any special services, pressing **FLASH** might disconnect the current call.

## USING TONE SERVICES ON A PULSE LINE

Some special services, such as bank-by-phone, require tone signals. If you have pulse service, you can still use these special tone services by following these steps.

Dial the service's main number. When the service answers, press **✳/TONE/◀** . Any additional numbers you dial are sent as tone signals.

When you hang up, the phone automatically resets to pulse dialing.

## USING THE PAGING/ INTERCOM FEATURES

You can use the phone as a two-way pager and intercom between the base and the handset. This is useful if the handset is away from the base and you want to locate it, or if you want to have a conversation between the handset and the base.

To page the handset from the base, press **INTERCOM**. The handset and base ring, and **Paging** appears on the handset's display. Press **▲/INTCM** on the handset to answer the page. **Intercom** appears.

To page the base from the handset, press **▲/INTCM**. The base and handset ring, and **Paging Base** appears on the handset's display. Press **INTERCOM** on the base to answer the page. **Intercom** appears on the handset's display.

**Note:** The paging ends in one minute if nobody answers. Press **INTERCOM** or ▲/**INTCM** again.

To end an intercom call, press ▲/**INTCM** or **INTERCOM**.

During a call, you can page someone at either the base or the handset to join the conversation. Press **INTERCOM** or ▲/**INTCM**. The current call is placed on hold.

To transfer the call, press **INTERCOM** or ▲/**INTCM** again when the person at the base or handset answers.

To start a 3-way call, tell the person at the base or handset to press the line button for the call, then press the same button twice on your keypad when they answer the page.

**Notes:**

- You cannot page the base or handset if it is already in use.

- If a call comes in during an intercom conversation, either of the intercom parties can answer the call as they normally would. Simply press the ringing line's button. The intercom call automatically disconnects.

## USING A HEADSET

You can talk with hands-free convenience using an optional headset that has a $^3/_{32}$-inch (2.5-mm) plug. Contact your local RadioShack store for a suitable headset.

To connect the headset, open the rubber cover on the side of the handset, then insert the headset's plug into the jack.

**Notes:**

- Connecting a headset disconnects the handset's earpiece and microphone, but it does not affect the phone's speakerphone.

- **DEL/VOL** on the handset also controls the connected headset's volume.

- If you place the handset on the base to recharge it while the headset is connected, be sure the handset seats properly.

With a headset connected, you make or answer calls as usual using the keys on the handset.

You can use a handset holder (available from your local RadioShack store) to hang the handset on your belt for greater convenience. When you finish using the headset, disconnect it from the handset and close the rubber cover to protect the jack.

# ❑ *Memory Dialing*

You can store up to 30 numbers in the handset's memory and another 10 in the base's memory, then dial a stored number by pressing a memory location number. You can also store a name with each number in the handset's memory.

Each number you store can be up to 20 digits long, and each name can be up to 13 characters.

You cannot dial a number stored in one memory location (the base or the handset) using the keypad on the other.

## STORING A NUMBER IN MEMORY

**Note:** The phone beeps five times and exits the storing process if you wait more than 20 seconds between each key press.

### In the Handset

1. Lift the handset.

2. Hold down **MEM** until **Memory Store** and a list of memory location numbers (and names, if any) appears.

3. Select an empty memory location (or the one you want to replace) by entering the location number (**01–30**) or using ▲/ **INTCM** or **CONF/**▼ to scroll through the list. Precede a single digit number with a **0** (for example, **01**, **02**, **03**, and so on.).

   **Note:** If the phone sounds five quick beeps, you have made an entry error and the number was not stored. Reenter the location number correctly.

4. Press **SELECT/CH**. **Store Name** appears. If you do not want to enter a name, skip to Step 6.

5. To enter a name, use the number keys.

   Refer to the letters on the number keys to select the desired letter. Press the key once for the first letter in the upper case, press twice for the second letter in the upper case, and so on. To enter the lower case letter, press four times (or five times) to display the first letter in lower case, five or six times for the second letter, and so on.

   For example, to enter John: press **5** once; upper case **J** appears. Then press **6** six times; lower case **o** appears. Press **4** five times; lower case **h** appears. Finally, press **6** five times; lower case **n** appears.

   To enter two letters from the same key in a row, press **#/** ▶ to move the cursor to the next position. For example to enter AB, press **2**; **A** appears. Then press **#/** ▶, the cursor moves to the next position, then press **2** twice so **B** appears.

   To enter a space, press **#/** ▶ twice without entering any character.

   To enter a number, repeatedly press the corresponding number key until the number appears.

   To enter a special character, use **0**. Each time you press **0**, the following characters appear in this order:

   **＊ # – & ( )** (space) **0**

   If you make a mistake, use **＊/TONE/** ◀ or **#/** ▶ to move the cursor over the error, then enter the correct character, or press **DEL/VOL** to delete a character. To delete all characters, hold down **DEL/ VOL** for at least 1 second.

6. Press **SELECT/CH**. **Store Number** appears.

7. Enter the number and any tone and pause entries (see "Using Tone Services on a Pulse Line" on Page 19 and "Entering a Pause").

   **Note:** Each tone or pause entry uses one digit of memory.

8. Press **SELECT/CH**. The phone beeps and **Memorynn Stored** appears. After 2 seconds, **Memory Store** appears. Repeat Steps 3–8 to store more numbers.

To replace a stored number, simply store a new one in its place.

## Editing or Deleting a Number in the Handset's Memory

Follow these steps to edit or delete a number stored in the handset's memory.

1. Lift the handset.

2. Hold down **MEM** until **Memory Store** and a list of memory location numbers (and names, if any) appears.

3. Choose a memory location you want to edit or delete by pressing ▲/**INTCM** or **CONF**/▼, or entering the location number (**01**–**30**).

4. Press **SELECT/CH**. Three options, **Edit Memorynn**, **Delete Memorynn**, and **Go Back**, appear. Press ▲/**INTCM** or **CONF**/▼ to choose an option, follow the instructions listed, then press **SELECT/CH**.

   **Edit Memorynn** — Edit the record as described in Steps 5–8 of "In the Handset" under "Storing a Number in Memory" on Page 21.

   **Delete Memorynn** — The display prompts you to confirm the deletion. Press ▲/

**INTCM** or **CONF**/▼ to move the cursor to **Yes** or **No**, then press **SELECT/CH**. The phone beeps, and **Memorynn Deleted** appears.

   **Go Back** — Returns you to the list of memory numbers.

5. When you finish editing or deleting memory numbers, press **MEM** or return the handset to the base to exit the **Memory Store** display.

## In the Base

1. Press **MEM**. The CHARGE indicator blinks.

2. Enter the number (up to 20 digits) and any tone or pause entries (see "Using Tone Services on a Pulse Line" on Page 19 or "Entering a Pause").

3. Press **MEM** again, then enter the memory location number (**0**–**9**) where you want to store the number. A tone sounds to indicate that the number is stored.

To clear a stored number, simply store a new number in its place. Or, press **MEM** twice. Then press the memory location number (**0**–**9**) you want to clear. The phone beeps.

Use the supplied memory directory sticker to record your stored numbers. Peel the backing from the sticker and attach it to the base.

## Entering a Pause

In some telephone systems, you must dial an access code (9, for example) and wait for a second dial tone before you can dial an outside number. You can store the access code with the phone number. However, you should also store a pause after the access code to allow the outside line time to connect.

To enter a 2-second pause, press **REDIAL/PAUSE**. The handset display shows P for pause entry. For a longer pause, repeatedly press **REDIAL/PAUSE**.

### Testing Stored Emergency Numbers

If you store an emergency service's number (police department, fire department, ambulance) and you choose to test the stored number, make the test call during the late evening or early morning hours to avoid peak demand periods. Also, remain on the line to explain the reason for your call.

## REVIEWING MEMORY NUMBERS (HANDSET ONLY)

To review your memory numbers, press **MEM**. The first three memory location numbers (01–03) appear with the name stored with each number (or < Memorynn > if you did not store a name). If necessary, scroll through the list by repeatedly pressing **CONF/▼** or **▲/INTCM**, or by entering the two-digit location number (01, 02, 03, and so on).

To see the stored phone numbers, press **#/▶**. An arrow to the right of the number means it is longer than 14 digits. Press **#/▶** again to see the rest of the number. Repeatedly press **∗/TONE/◀** to return to the name display.

To exit the memory number list, press **MEM**.

To see a stored name and phone number at the same time, press **SELECT/CH** when the cursor is by a memory location number. To exit this display without storing any changes, hold down **DEL/VOL** until the display clears.

## DIALING A MEMORY NUMBER

To dial a number stored in the handset's memory, lift the handset and press **MEM**. The first three memory location numbers appear. Choose a memory location (**01–30**) by pressing number keys or repeatedly pressing **▲/INTCM** or **CONF/▼**, then press **LINE 1** or **LINE 2**. The phone automatically dials the number.

**Note:** You can also press **LINE 1** or **LINE 2** first, then choose a memory number to dial.

To dial a number stored in the base's memory, press **LINE 1** or **LINE 2**. When you hear a dial tone, press **MEM** and enter the memory location number for the number you want to dial.

**Note:** If you select an empty memory location, the base beeps 5 times.

## CHAIN-DIALING SERVICE NUMBERS

For quick recall of numbers for special services (such as alternate long distance or bank-by-phone), store each group of numbers in its own memory location.

To use the stored special service numbers, dial the service's main number first. Then, at the appropriate place in the call, press **MEM** and the number for the memory location where the additional information is stored.

# ☐ *Caller ID Operation (Handset Only)*

If you subscribe to Caller ID service from your phone company, the phone company sends information about the call, as well as the time and date, between the first and second rings of every call you receive. Although the Caller ID memory is on the handset, it also records the call you receive on the speakerphone.

The phone displays this information when it receives a call, and it stores up to 80 Caller ID records — 40 each for both lines — for later review. It also shows if caller information is unavailable or if the name and number were blocked by the caller (see "Caller ID Messages").

If you subscribe to Call Waiting with Caller ID, you will hear a tone through the handset when a call comes in, then the Caller ID record appears. If you want to answer the incoming call, press **FLASH**. To resume the previous phone conversation, press **FLASH** again.

If the phone's Caller ID memory becomes full, any new call replaces the oldest call's record.

## REVIEWING CALLER ID RECORDS

To review the Caller ID records, lift the handset if necessary and press **CID/HOLD**. Numbers of new and total numbers of Caller ID records for each line appear. Press **✱/TONE/ ◀** or **#/ ▶** to select the line you want to view, then press **▲/INTCM** or **CONF/▼**.

**Note:** If the handset is faceup on the base, it shows the number of Caller ID records, so you can see if you have new records to review.

Repeatedly press **CONF/▼** to scroll through the Caller ID records from the newest to the oldest, or **▲/INTCM** to scroll back through the records. To scroll quickly through the records, hold down **CONF/▼** or **▲/INTCM**.

The top line of each record shows the date, time and the number of calls from that number. The second line shows the caller's name, and the third line shows the caller's phone number.

To exit the Caller ID record display, press **CID/HOLD**.

## CALLER ID MESSAGES

| Display | Description |
|---|---|
| Line 1 Line 2<br>ПEW   XX   XX<br>TTL   XX   XX | Shows the number of new Caller ID records (records you have not reviewed) and the total number of records for each line. |
| **Private Пame**<br>or<br>**Private Пumber** | The caller has blocked the Caller ID information from being sent. |
| **Unknown Пame**<br>or<br>**Unknown Пumber** | The caller is not within a caller ID service area. |
| **Incomplete Data** | Appears if there was an error during the transmission of Caller ID information. Minor electrical disturbances can affect Caller ID information. Occasional errors are normal. If the phone frequently displays **Incomplete data**, contact your local phone company or RadioShack store for assistance. |

## ADDING/DELETING THE AREA CODE

When the area code of the received call is the same as the one you stored (see "Storing Your Area Code" on Page 15), the caller ID record does not show the area code. If it is different, the record shows the area code.

However, you can add or delete the area code on the display. When the record is on the display, press **3** to add or delete the area code. Pressing **3** again deletes or adds the area code.

When you dial the number or store it into memory, the phone dials or stores the number as it appears on the display.

## DIALING NUMBERS FROM A CALLER ID RECORD

To dial a local number stored in a Caller ID record, recall the record, then press **LINE 1** or **LINE 2**. If it is a long distance call, press **1** (**1** appears before the displayed number) before you press **LINE 1** or **LINE 2**. If you want to add or delete the area code, press **3** before you press **LINE 1** or **LINE 2**.

**Notes:**

- You can use either line to make a call. For example, you can use line 2 to make a call to the number stored in the line 1 Caller ID memory.

- If a Caller ID record does not contain a phone number (if it was blocked by the caller, for example), you cannot dial from that record.

## STORING A CALLER ID RECORD TO MEMORY

Follow these steps to store the name and number from a Caller ID record into a memory location.

Recall the record you want to store. If you want to add or delete the area code, press **3**.

Press **MEM**. **Select Location** appears.

Choose a memory location (**01**–**30**) by pressing number keys or by repeatedly pressing ▲/**INTCM** or **CONF**/▼ , then press **SELECT/CH**.

If the selected location is empty, the phone beeps to confirm that it stored the number, then the Caller ID record appears.

If a record exists in the selected location, **Replace Memory?** appears, prompting you to confirm the replacement. Press ▲/**INTCM** or **CONF**/▼ to move the cursor to **Yes** or **No**, then press **SELECT/CH**.

## DELETING CALLER ID RECORDS

You can delete Caller ID records individually or all at once.

To delete a single record, recall it, then press **DEL/VOL**. **Delete Message?** appears, prompting you to confirm the deletion. Move the cursor to **Yes**, then press **SELECT/CH** or **DEL/VOL**.

To delete all the records at once, display the number list menu, select the line, and press **DEL/VOL**. **Del All, Line n?** appears, prompting you to confirm the deletion. Press ▲/**INTCM** or **CONF**/▼ to move the cursor to **Yes** or **No**, then press **SELECT/CH** or **DEL/VOL**.

# ❒ *Troubleshooting*

We do not expect you to have any problems with your phone, but if you do, the following suggestions might help.

| Problem | Suggestion |
|---------|-----------|
| The phone does not work or works poorly. | Be sure the base's phone line cord and AC adapter are correctly and securely connected. |
| | Be sure the handset's battery pack is connected and charged. |
| | Return the handset to the base for a few seconds to reset the security access-protection code. |
| The handset stops working or works poorly during a call. | Move the handset closer to the base. |
| | Lift the base's antenna to a vertical position. |
| | Be sure the handset's battery pack is charged. (If the battery power is too low, **Low Battery** does not flash on the handset's display) |
| Low volume of unusual sounds. | Someone has picked up another phone on the same phone line. Hang up the other phone. |
| Severe noise interference. | Keep the handset and base away from 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 the interference. |
| | Hang up and redial the number. |
| The phone cannot be operated at a useful distance from the base because the signal becomes weak or noisy (handset's range has decreased). | Lift the base's antenna to a vertical position. |
| | Be sure neither antenna is touching a metal surface. |
| | Recharge the battery pack. |
| The handset battery pack does not charge. | Check the charging contacts on the handset and base. If they are dirty, clean them with a pencil eraser. |
| | Be sure the battery pack is connected correctly (see "Connecting, Charging, and Replacing the Battery Pack" on Page 12). |
| | Be sure the handset is properly seated on the base. |
| | Replace the battery pack. |

| Problem | Suggestion |
|---|---|
| The handset does not ring or receive a page. | Lift the base's antenna to a vertical position. |
| | Move the handset closer to the base. |
| | Move the handset and base away from other electrical devices. |
| | Set the ringer volume to either high or low. |
| | Recharge the battery pack. |
| | If the base loses power while the handset is off of it, the security access-protection code might change. Restore power to the base, then place the handset back on the base and leave it there for a few seconds. |
| | Check the number of devices connected to your phone line and add up the RENs. See "Read This Before Installation" on Page 2. |
| You have an incoming call, but do not receive any Caller ID information. | Let the phone ring twice before you answer so the system has time to record the Caller ID information. |
| | Check that the system is correctly and securely connected. |
| | Call your phone company to verify that your Caller ID service is active. |

If you still have problems, disconnect the phone. If other phones on the same line work properly, the fault is in this phone or its installation. If you cannot find the problem, take your phone to your local RadioShack store for assistance.

## CARE

Keep the phone dry; if it gets wet, wipe it dry immediately. Use and store the phone only in normal temperature environments. Handle the phone carefully; do not drop it. Keep the phone away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the phone's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your phone is not performing as it should, take it to your local RadioShack store for assistance. If the trouble is affecting the telephone lines, the phone company can ask you to disconnect your phone until you have resolved the problem.

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