

Please read before using this equipment.



Handheld Cellular Phone





FEATURES

Your RadioShack CT-400 Handheld Cellular Phone combines advanced technology and design simplicity. To complement its small size and easyto-use design, the CT-400 provides a full range of features.

Easy-to-Read Digital Display — the supertwist liquid-crystal display provides essential call information and can be easily read from almost any angle.

Special Cellular Service Features — the phone is preprogrammed to work with special (subscriptiononly) messaging services offered by many cellular carriers, including calling line ID and voice mail notification.

One-Touch Dialing Memory — lets you dial an important number at the touch of a single button.

Memory Dialing — lets you store up to 40 phone numbers and names in memory, and dial any stored number by simply entering its one- or two-digit memory number (1–40).

Call Register Lists — let you quickly review and redial any of the last 10 numbers that you called, and (if you subscribe to the appropriate cellular services) the numbers for any of the last 10 calls you missed or received.

Keyguard — helps prevent accidental key presses when the phone is in a pocket or bag, for example.



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Security Features — to prevent unauthorized phone use, you can set up to three different levels of call restrictions (to allow only incoming calls, for example) while still allowing calls to the preprogrammed emergency number.

One-Touch Emergency Dialing — lets you dial the emergency number preprogrammed into your phone, by briefly holding down the <u>General</u> key.

Scratchpad Memory — lets you temporarily store a number (during a call, for example), then easily dial it or store it in memory.

Ample Talk and Standby Time — the supplied battery (fully charged) provides about 1 hour, 40 minutes of talk time or 21 hours of standby time.

Silent Service — lets you set the phone to quietly beep instead of ring when it receives a call, to avoid disturbing others.

Call Timers — let you keep track of the individual and cumulative call times (air-time), and includes a timer that you can reset at any time.

Two Phone Number Capability — lets you use this one phone with two different cellular services, with a different phone number from each.

We recommend you record your phone's Electronic Serial Number (ESN) here. The number is on the handset under the battery.



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INSTALLING THE BATTERY

To install the battery, place it flat against the back of the phone with the tab facing up and toward the top of the phone. Then slide the battery toward the top of the phone until it snaps into place.



To remove the battery, be sure the phone is turned off, then hold down the tab, slide the battery down, and lift it off the phone.

IMPORTANT BATTERY TIPS

- You must fully charge a new battery at least 24 hours before you first use it. See "Charging the Battery" on Page 10.
- Use only the supplied charger and use only batteries recommended for this phone.
- A new battery's full performance is achieved only after two or three complete charge and discharge cycles.
- When you are not using the charger, disconnect it from power. Do not leave the charger connected for more than a week, since overcharging could shorten the battery's life.
- If left unused, a fully charged battery discharges itself in about a week.







- When the battery is not in use, store it uncharged in a cool and dark place.
- The battery is a sealed unit with no serviceable parts. Do not try to open the case.
- You can purchase additional standard or extended capacity batteries through your local RadioShack store.
- A battery can be charged and discharged hundreds of times, but it eventually wears out. When the operating time (talk time and standby time) is noticeably shorter than normal, it is time to get a new battery.
- Leaving the battery in a hot or cold place, such as in a closed car in the summer or winter, reduces the battery's capacity and life. Always try to keep the battery between 59° and 77°F (15° and 25°C). A phone with a battery that is too hot or too cold might not work, even when the battery is fully charged, until the battery returns to a normal temperature. Nickel metal hydride (NiMH) batteries are particularly limited in temperatures below 14°F (-10°C).
- Use the battery only for its intended purpose.
- Never use any charger or battery that is damaged or worn out.





- Do not short circuit the battery. Accidental short circuiting can occur when a metal object (coin, paper clip, pen, or similar) directly connects the battery's + and – terminals (the metal strips on the back of the battery), such as when you carry a spare battery in your pocket or purse. Short circuiting the terminals might damage the battery or the object connected to it.
- Do not dispose of batteries in a fire!



Nickel Cadmium and Nickel Metal Hydride batteries must be recycled or disposed of properly. They must not be disposed of in municipal waste.

CHARGING THE BATTERY

Once you install the battery on the phone, follow these steps to charge the battery using the supplied charger.

1. Insert the charger's barrel plug into the jack on the bottom of the phone.



 Connect the charger's AC plug to a standard AC outlet. The phone beeps and its battery charge bar appears and begins to scroll.





Notes:

- You can use your phone during charging, but charging takes longer.
- For the fastest charging, be sure the phone is turned off, if you are not expecting a call.
- If the battery is too hot or cold, charging stops until the battery temperature returns to normal.
- The battery charge bar stops scrolling when the battery is fully charged. Disconnect the charger from the AC outlet first, then disconnect it from the phone.

Using the supplied battery (fully charged), you have about 1 hour, 40 minutes of talk time or 21 hours of standby time.

When to Recharge the Battery

Your phone displays the battery charge bar whenever the phone is on to keep you informed about the battery's power level. The higher the bar, the more power left in the battery.





You can recharge the battery (as described in "Charging the Battery" on Page 10) at any time. However, when your phone gives you these lowbattery indications, recharge the battery as soon as possible:

- When only a few minutes of talk time remain, the phone sounds a warning tone and displays **BATTERY LOW** at regular intervals.
- When the battery charge level is too low for the phone to operate, the phone displays **RE**– **CHARGE BATTERY** and sounds a warning tone. The phone automatically turns off about 10 seconds later.

Note: The phone does *not* sound low battery warning tones if silent service is set to ON (see "Ring Type" on Page 37).

DISCHARGING BATTERIES

Rechargeable batteries last longer and perform better if occasionally allowed to fully discharge. You can do this by leaving the phone on until the phone automatically turns off or you can use the battery discharge feature of any approved accessory available for your phone.

Do not try to discharge the battery by any other means.





TURNING THE PHONE ON/OFF

Note: Extend the antenna fully. Avoid touching the antenna with the phone turned on.

The phone must be turned on before you can make or answer calls. To turn on the phone, hold down (*) (above and to the upper right of the display) until the phone beeps. The phone performs a short self-test, then it briefly displays the activated phone number (see "Selecting the Active Phone Number" on Page 25). The phone is ready to use when the signal strength and battery charge bars appear.

To turn off the phone, hold down (\mathbb{N}) until the phone beeps.

MAKING A CALL

1. Use the number keys to enter the phone number you want to dial. Include the area code, if necessary.

Note: If you make a mistake, repeatedly press to delete digits one at a time, or hold down to clear all digits.

2. Press **SEND** to dial the phone number. The phone displays **IN USE** and the phone number you dialed.





Notes:

- PIN CALL appears if PIN code dialing is set to ON (see "PIN Code Dialing" on Page 46).
- (no service) appears and three • beeps sound if you are outside the cellular service area. See "Signal Strength."
- NOT ALLOWED briefly appears if you try to make a restricted call (see "Selecting a Call Restriction Level" on Page 21).
- 3. To end the call, press IND.

Signal Strength

The vertical bar on the left of the display shows the strength of the cellular signal your phone is receiving. The higher the bar, the stronger the signal.

If the signal strength is low, try moving to a different location. If you are using the phone in a building, try moving closer to a window.

lf appears, the phone is outside the cellular service area. This means you cannot make or receive calls until you move the phone back inside the cellular service area.







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RECEIVING A CALL

When the phone receives an incoming call, it rings and flashes **CALL**. To answer a call, press any key except $\binom{6}{3}$.

Notes:

- After the first ring, if you subscribe to calling line ID service through your cellular carrier (see "Calling Line ID" on Page 31), the phone automatically displays the calling party's phone number. The phone will also display the caller's name if the name and number are programmed into your phone (see "Storing a Number and Name in Memory" on Page 48).
- If you selected silent service (see "Ring Volume" on Page 36), the phone does not ring. Instead, the keypad and display backlights flash, **CALL** flashes on the display (or caller information appears), and the phone beeps once.
- If keyguard is set to ON (see "Turning Keyguard On/Off" on Page 24), you can answer a call only by pressing (END).

To end the call, press IND. To clear calling line ID information from the display (if any), press IDD.



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If you do not answer a call, the phone displays **NN CALLS MISSED** (where NN is the number of calls) until you press any key (except ()). It also stores the caller's number (if available) in the missed call register. See "Using the Call Register" on Page 39.

Hint: To quickly store the displayed caller's number (if available) into the first empty speed-dial memory, hold down (a) for about 2 seconds (see "Using Number Quick Store" on Page 51).

ADJUSTING THE VOLUME

To increase or decrease the earpiece volume during a call, press \frown (to increase) or \bigcirc (to decrease).

The phone displays **VOLUME** and a horizontal bar indicating the volume level. The more filled bar segments, the higher the volume.



MAKING EMERGENCY CALLS

The primary local emergency number (such as 911) is programmed into your phone at the time of activation. To prevent unwanted emergency calls, however, your phone's one-touch emergency dialing feature is preset to OFF. To set it to ON, see "Turning One-Touch Emergency Dialing On/Off" on Page 23.





Notes:

- The emergency number programmed into your phone might not be valid in all areas. (For example, not all areas have 911 service.) If you use the phone outside its primary service area, you might have to manually dial an emergency number if it is different from the one programmed into your phone.
- One-touch emergency dialing does not operate if keyguard is turned on (see "Turning Keyguard On/Off" on Page 24) or if one-touch emergency dialing is turned off.

Important: When you make an emergency call, give your name and cellular phone number, as well as the location of the incident. Remember that your phone might be the only means of communication at the accident scene. Do not end the call until you are advised you may do so.





LAST 10 NUMBER REDIAL

Follow these steps to view and dial the last 10 phone numbers called.

- 1. Hold down (to clear the display (if necessary).
- 2. Press see. The phone displays the last number dialed.

Note: If no number is stored in a redial memory, the phone briefly displays **LOCATION EMPTY**.

4. To dial a displayed number, press seve again.

Hint: To quickly store one of the last 10 numbers you dialed into the first empty speed-dial memory, recall that number, then hold down (a) for about 2 seconds (see "Using Number Quick Store" on Page 51).





This section lists your phone's menu functions, the shortcut keys (if any) you can use to access the functions, and the pages in this manual where you can find full descriptions of the functions.

To select a specific menu function, press that function's shortcut keys (if any).

To scroll forward or backward through all menu functions, press (then (forward) or ((backward). Press (to select a displayed function.

You See	Shortcut/Description	See Pg.
STORE TO MEMORY	(Two) Stores names and phone numbers	48
FIND NAME	Recalls names and phone numbers	52
ERASE NAME	Erases names and phone numbers	52
RESTRICT CALLS	(UFNU) (4 GHI) Sets a call restriction level	21
SYSTEM SELECT	(IFRI) (5 JKL) Selects cellular system type	26
CALL TIMERS	(6 MNC) Displays the length of calls and resets the timers	33



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You See	Shortcut/Description	See Pg.
LIGHTS	Trons Trons Sets the display and key- pad backlights	34
KEYPAD TONES	ⓐम्⊎) Turns keypad tones on/off	35
RINGING VOLUME	(IFRE) (9)WXYZ Selects the ring volume	36
RINGING TYPE	Selects the ring type	37
EMERGENCY KEY 9	Turns emergency one- touch dialing on/off	23
NAM SELECT	Displays and selects the active cellular number	25
CALLING CARD	Selects and activates the calling card option	41
CHANGE LOCKCODE	Changes the 4-digit lock code	37
SID SCREEN	Turns SID screening on/off	29
CALL REGISTER	Shows missed, received, and dialed call lists	39
KEYGUARD	(₩END) ★ Turns keyguard on/off	24





SELECTING A CALL RESTRICTION LEVEL

Your phone is preset to let you (or anyone else) dial any type of number (local or long distance) and freely access any information stored in its memory. To prevent unauthorized use of your phone, however, you can enter your 4-digit lock code (see "Changing the Lock Code" on Page 37) and set any of these varying levels of call restrictions.

Restriction Level	Description
ALLOW ALL	No restrictions (default setting).
INCOMING ONLY	All incoming calls can be an- swered. Outgoing calls are re- stricted to the preprogrammed emergency number and whatever number you stored in Memory 40. The memory cannot be accessed or changed.
MEMORY ONLY	All incoming calls can be answered. Outgoing calls are restricted to numbers stored in memory (including the pre- programmed emergency num- ber). The memory cannot be changed.





Important: You can dial the pre-programmed emergency number and the number stored in Memory 40 *regardless* of which call restriction level you select.

Follow these steps to select a call restriction level.

- 1. Press (). The phone displays the current setting.

The phone prompts you for your 4-digit lock code (LOCKCODE?).

3. Enter your lock code, then press .

Note: If you enter the wrong lock code, the phone displays **CODE ERROR**. Start again at Step 1 and enter the correct code.

If you selected any setting except ALLOW ALL, the phone briefly displays **NOT ALLOWED** when anyone tries to use a restricted feature.





TURNING ONE-TOUCH EMERGENCY DIALING ON/OFF

One-touch emergency dialing lets you call the primary emergency number programmed into your phone, by holding down **International Seconds**.

One-touch emergency dialing is preset to OFF. To turn it on or back off at any time, follow these steps.

- 1. Press () then repeatedly press () or () until the phone displays **EMERGENCY KEY 9**.
- 2. Press ^(∞). The phone displays **EMERG.9 ON** if one-touch emergency dialing is ON, or **EMERG. 9 OFF** if it is OFF.
- 3. Press ▲ or ▼ to select the other setting, then press ⊗ to store your selection.





TURNING KEYGUARD ON/OFF

You can use keyguard to disable the phone's keypad and prevent accidental key presses (when the phone is in a purse or pocket, for example).

To turn on keyguard, press K or hold down K for about 2 seconds (this is handy when you are ending a call, for example).

When keyguard is on:

- The phone displays **KEYGUARD ACTIVE** until you press a key.
- When you press any key, the phone displays **PRESS MENU** to prompt you to turn off keyguard.
 - To answer a call, you must press (IP). During the call, keyguard automatically turns off.
 - When you press END to end a call, keyguard automatically turns back on.
 - You cannot turn off the phone.
 - You cannot use one-touch emergency dialing. However, you can manually dial the emergency number programmed into your phone (911, for example) and press (SEND) to place the call. The phone does not display any digit until you have entered the entire number.

To turn off keyguard, press . The phone displays **NOW PRESS** *. Press *. The phone briefly displays **KEYGUARD OFF**.





SELECTING THE ACTIVE PHONE NUMBER

Every cellular telephone has at least one NAM (Number Assignment Module), which is used to store its phone number.

Your phone has two NAMs. If you subscribe to two cellular services (for example, competitive cellular systems in your area or cellular systems in different cities), each of your phone's NAMs was programmed with a different phone number at the time of activation.

If your phone is programmed with two different numbers, follow these steps to select the active number (the number you want to use to make and receive calls).

- 1. Press (Interpretedly press (Interpretedly press) or (Interpretedly press) until the phone displays **NAM SELECT**.
- 2. Press (.). The phone displays the active phone number.

Notes:

• You cannot change the active number during a call. If you try to, the phone displays CALL IN **PROGRESS** and exits the menu.



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 If you want to receive calls on both numbers at the same time and you subscribe to call forwarding through your cellular service providers, you can set both numbers on your phone to forward to the other number if not answered. Contact your cellular service providers for details.

SETTING THE CELLULAR SYSTEM TYPE

Every cellular market area has two cellular service providers. One of the providers is designated *Provider A* and the other *Provider B*.

Your phone is activated to operate based on your cellular service provider's designation (A or B). If you travel to a city where you do not subscribe to cellular service, however, you can select any of these system settings on your phone (based on how you want the phone to operate in that city).

Notes:

- Using the phone in a city where you do not subscribe to a cellular service is referred to as *roaming*. See "Roaming" on Page 28.
- The designation (A or B) that appears with the setting is based on the selected phone number's NAM.



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- Usually, it is less expensive to use the same provider type for cellular service when you are in your home city and when you roam. To do this, you need to know whether your cellular service provider is type A or B in your home city and in each city where you plan to travel.
- It is possible for a cellular service provider to be (or have agreements with) Provider A in some cities and Provider B in others.

HOME TYPE (A or B) — Use this setting if you are roaming and your home city cellular service provider is the same provider type as in the city you have travelled to (for example, if the company is Provider A in both cities).

NON-HOME TYPE (A or B) — Use this setting if you are roaming and your home city cellular service provider is the opposite provider type from the city you have travelled to (for example, the company is Provider A in your home city and Provider B in the other city).

HOME AREA — Use this setting if you do not want to roam (you can only use the phone within the area covered by your home cellular service provider).

BOTH SYSTEMS — Use this setting if you want the phone to use *either* Provider A or Provider B. The phone uses its home type system when possible and the non-home type system when service is not available on its home type system.





Follow these steps to set the cellular system type.

- 1. Press is 5..... The phone displays the current setting.
- Repeatedly press or until you see the setting you want to use, then press to store that setting.

ROAMING

Using the phone in a city where you do not subscribe to a cellular service is referred to as *roaming*. When you roam, **but turns** on steadily if the phone is using its home type system, and flashes when it is using a cellular system that is different from your home type system (non-home type system).

In some areas, the cellular system's computer automatically recognizes roaming telephones. In other areas, you must contact the service provider before it can recognize your phone. The operator needs to know your telephone number, your phone's ESN (Electronic Serial Number), and how you plan to pay for your calls. There is normally an additional charge for roaming calls.

Note: Your phone's ESN is under the phone's battery. (However, the roaming cellular service providers can usually automatically determine your phone's ESN when you call.)



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SID SCREENING

If two different cellular market areas are located close to one another, a call designated for the A (or B) carrier in one market can sometimes be placed using the A (or B) carrier located in the other market area. This can result in unwanted roaming and higher charges.

At the time of activation, a code is programmed into your phone that uniquely identifies your cellular carrier. To prevent unwanted roaming, your phone's System IDentity (SID) screening feature lets you set your phone to look for your designated carrier's code signal each time you place a call, so the calls you place use *only* your carrier.

Notes:

- If SID screening is set to ON and the phone cannot locate your designated carrier's code signal, only emergency calls to the emergency number programmed into your phone can go through. Other calls will not go through, and the phone will not roam.
- When SID screening is set to OFF, your phone automatically roams according to the selected cellular system type (see "Setting the Cellular System Type" on Page 26).





Follow these steps to turn SID screening on or off.

- 1. Press (1), then repeatedly press (1) or (1) until the phone displays **SID SCREEN**.
- 2. Press (.). The phone displays the current setting (SID SCRN ON or SID SCRN OFF).

Note: If no SID information has been programmed into your phone, the message **NOT ALLOWED** appears and the phone exits the menu.

3. Press ▲ or ▼ to select the other setting, then press [∞] to store your selection.

The phone prompts you for your 4-digit lock code (LOCKCODE?).

4. Enter your lock code, then press .

Note: If you enter the wrong lock code, the phone displays **CODE ERROR**. Start again at Step 1 and enter the correct code.





SPECIAL PHONE SERVICES

Calling Line ID

If you subscribe to calling line identification service with your cellular carrier, your phone is preset to automatically display the caller's phone number (if available) each time it receives a call. If you stored the caller's phone number with a name in the phone's memory (see "Storing a Number and Name in Memory" on Page 48), that stored name appears.

Hint: To quickly store the displayed caller's number into the first empty speed-dial memory, display the record then hold down (a) for about 2 seconds (see "Using Number Quick Store" on Page 51).

Message Waiting

If you subscribe to voice mail service with your cellular carrier, calls you do not answer are sent to your voice mailbox. A voice mailbox is somewhat like an answering machine, because you must call it and enter a password or personal identification code to listen to your messages. (For information about using your voice mailbox, contact your cellular carrier.)







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When your phone is turned on and receives voice mail notification from your cellular carrier, it displays <u>oo</u> to notify you that you have one or more messages waiting in your mailbox. When you call your mailbox and listen to your message(s), <u>oo</u> disappears.

Hint: If you subscribe to voice mail service, you can store the number you call to reach your mailbox in your phone's one-touch dial location (Memory 1) for easy access. See "Storing a Number and Name in Memory" on Page 48.

Other Services

Your cellular service provider might offer other special options that let you receive or make a second call or conference two calls together using your phone's (SEND key.

Contact your cellular carrier for details about these special services or billing.







CALL TIMERS

Your phone has four call timers that let you check the length of your calls in minutes and seconds (for example, 12345:12 equals 12,345 minutes and 12 seconds). You can view the timers at any time (even during a call), and you can reset all the call timers (except one).

Note: The actual time invoiced for calls by your cellular service provider might vary from the time shown on your phone, depending on network features, rounding-off for billing, and so on.

Follow these steps to view or reset the timers.

- 1. Press (MIND).
- 2. Press () or () to scroll through the timer displays.

 ${\bf LAST}~-$ Shows the length of the last or current call.

TOTAL 1 — Shows the length of all calls you have made on the active phone number (not including the call in progress, if any).

TOTAL 2 — Shows the length of all calls you have made on the phone number that is *not* active.

LIFE — Shows the combined length of all calls you have made using both of your phone numbers (cannot be reset).





CLEAR TIMERS — Resets all call timers except for LIFE.

3. To clear the timers, press (a) when the phone displays **CLEAR TIMERS**. The phone prompts you to enter your 4-digit lock code (**LOCKCODE?**). Enter your lock code and press (a). The phone briefly displays **TIMERS CLEARED** to confirm that the timers have been reset.

To exit the timer display without clearing the timers, press .

BACKLIGHT CONTROL

Your phone is preset to turn on its display and keypad backlights each time you press a key, then turn them off within about 15 seconds after the last keypress.

To set the phone so the backlights do not turn on (to conserve battery power, for example), or to set them to turn on again, follow these steps.

- 2. Press \bigcirc or \bigcirc to select the other setting.
- 3. Press to store your selection.





When you select the setting LIGHTS ON:

- and the phone is used as a portable phone or connected to a charger, the lights turn on for 15 seconds when you press a key or receive a call.
- and the phone is connected to a handsfree car kit, the lights remain on continuously.

When you select the setting LIGHTS OFF:

- and the phone is used as a portable phone or connected to a charger, the lights do not turn on at all.
- and the phone is connected to a handsfree car kit, the lights turn on for 15 seconds when you press a key.

KEYPAD TONES

Your phone is preset to sound a tone each time a key is pressed. To turn the keypad tones off or on at any time, follow these steps.

- Press I TUV. The phone displays the current setting (KEYTONES ON or KEYTONES OFF).
- 2. Press \bigcirc or \bigcirc to select the other setting.
- 3. Press 🛞 to store your selection.

Note: Your phone automatically turns off the keypad tones if you select SILENT SERVICE (see "Ring Volume" on Page 36).





RING VOLUME

You can select one of these three ring volumes for the phone:

- **RINGING LOW** the ring is quiet.
- **RINGING HIGH** the ring is loud.
- SILENT SERVICE the phone does not ring. Instead, the keypad and display backlights flash, CALL flashes on the display, and the phone sounds a short beep when a call is received. This setting also turns off the phone's keytones (even if the keytones feature is set to ON).

Follow these steps to set the ring volume.

- 1. Press (9) (9) The phone displays the current setting (RINGING HIGH, RINGING LOW, or SILENT SERVICE).
- 3. When you hear or see the setting you want to use, press [∞] to store that setting.

Note: If you select SILENT SERVICE, the phone displays **SILENT** when there is no call in progress and when you are not using another function.




RING TYPE

Follow these steps to select from five different ring patterns that your phone can sound when it receives a call.

- 1. Press (1), then repeatedly press (1) or (1) until the phone displays **RINGING TYPE**.
- 2. Press (**). The phone displays the current setting (**RINGING TYPE 1** to 5).
- 3. Repeatedly press or to scroll through the other settings. The phone sounds a sample ring for each setting.
- 4. When you hear or see the setting you want to use, press (a) to store that setting.

CHANGING THE LOCK CODE

At the time of activation, your phone is programmed with, and you were given, a 4-digit lock code which is required to change the settings of some menu functions (such as SID screening, call restrictions, and calling card dialing).

To change your 4-digit lock code, follow these steps.

1. Press (1), then repeatedly press (1) or (1) until the phone displays CHANGE LOCKCODE.





- 2. Press (.). The phone prompts you for your 4digit lock code (LOCKCODE?).
- 3. Enter your 4-digit lock code, then press . The phone prompts for the new lock code (NEW CODE?).

Note: If you enter the wrong lock code, the phone displays **CODE ERROR**. Start again at Step 1 and enter the correct code.

- 4. Enter the new 4-digit lock code, then press . The phone prompts you to confirm the new lock code (CONFIRM).
- 5. Enter the new lock code again, then press (a) to store it. **STORED** appears briefly to confirm the change.





USING THE CALL REGISTER

Your phone automatically stores calls in these three lists:

- *MISSED CALLS lists the caller's phone number for up to the last 10 calls you did not answer
- **DIALED CALLS** lists the phone number dialed for up to the last 10 calls made from this phone
- *RECEIVED CALLS lists the caller's phone number for up to the last 10 calls you answered

* Requires a subscription to calling line ID service through your cellular carrier — see "Calling Line ID" on Page 31.

Follow these steps to view any of the call lists or dial any number stored in a list.

- 1. Press (). The phone displays CALL REGISTER.
- 2. Press ⁽), then repeatedly press (▲) or (▼) until you see the list you want to view.

To dial a displayed number, simply press (SEND).





To quickly store the displayed number into the first empty speed-dial memory, hold down (*) for about 2 seconds (see "Using Number Quick Store" on Page 51).

Note: If a list is empty, the phone briefly displays **LOCATION EMPTY** then clears the display.

4. When you finish, hold down (to exit the list and clear the display.

Clearing the Call Lists

To clear the entries from *all* call lists, follow Steps 1–3 in "Using the Call Register" and select **CLEAR LISTS** in Step 2. The phone prompts you to enter your 4-digit lock code (**LOCKCODE?**). Enter your lock code and press (a). The display clears to confirm that the lists have been cleared. To exit the call register display *without* clearing the lists, press (a).







USING CALLING CARD DIALING

Storing/Clearing a Calling Card Number

The calling card feature lets you store a longdistance calling card number in the phone's memory, so you can place long-distance calls from this phone using that number.

Follow these steps to select a calling card type and enter your calling card number.

- 1. Press (1), then repeatedly press (1) or (1) until the phone displays CALLING CARD.
- 2. Press (a). The phone prompts you for your 4-digit lock code (LOCKCODE?)
- 3. Enter your 4-digit lock code, then press .

The phone displays the type of the last card selected, or **NO CARD** if no card carrier has been selected.

Note: If you enter the wrong lock code, the phone displays **CODE ERROR**. Start again at Step 1 and enter the correct code.



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Card Type (You See)	Carrier Name	Carrier Access Number
A	Sprint MCI SNET	1-800-877-8000 1-800-950-1022 1-800-555-5321
В	MCI MCI GTE	1-800-888-8000 1-800-674-0700 1-800-225-5483
С	AT&T Sprint PacTel	1-800-225-5288 1-800-277-7468 1-800-522-2020
D	AT&T10 Sprint Ameritech	10288 100333 (Press at ACCESS NUM- BER? prompt)
Е	MCI	1-800-999-9000

The phone prompts you for that carrier's network access number (ACCESS NUMBER?).

If you must dial a number (such as an 800 number) to access the carrier, enter that number. Then press [∞]. (If you do not have to dial an access number, simply press [∞].)

The phone prompts you for the card number (CARD ID CODE?).



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Note: To exit without changing the calling card settings (if you are changing only the access number, for example), press (3).

6. Enter the card number, then press \bigotimes .

The phone briefly displays **STORED** to confirm that the selected card information is activated and stored.

To clear a stored calling card number, follow Steps 1–4 and select the setting **NO CARD** in Step 4. The phone erases all card information and exits the menu.

Using a Stored Calling Card Number

Follow these steps to make a long-distance call using the calling card number you stored.

Enter the desired area code and phone number, then hold down (SEND) until the phone displays CARD CALL and IN USE. CARD CALL remains on the display until the access number is sent to the network, then the phone prompts you to wait for a tone or voice prompt (WAIT FOR PROMPT).

Note: If no calling card is stored in memory, the phone makes a normal call to the phone number you entered.





- 2. When you hear the carrier's calling card tone or voice prompt, press **SEND**. **CARD CALL** appears on the display, then the phone prompts you to wait for another tone or voice prompt (**WAIT FOR PROMPT**).
- 3. When you hear the next tone or prompt (if any), press (ID) again, then continue with the call as you normally would.

Notes: This procedure might not apply to all calling card options. For more information, look at the back of your calling card or contact your long distance carrier.

USING TOUCH-TONE SERVICES

To use your cellular phone to control answering machines and special telephone services (such as bank-by-phone or voicemail), simply enter touchtone commands using your phone's keypad after the service answers.

Or, you can store the service's command sequence in a speed-dial memory (see "Storing a Number and Name in Memory" on Page 48), then follow these steps after the service answers.

- 1. Recall the memory that contains the command sequence.
- Press (I) (END). The phone sends the commands as touch tones.





Adding a Pause

Some services, such as voicemail, require you to enter an access code then pause before entering additional digits. To include a pause in a sequence when storing it in memory, press p (#). The phone displays **p**. When you send the sequence, the phone pauses for $2^{1/2}$ seconds where you entered a pause. If you need a longer pause, enter multiple pauses, one after the other.

Adding a Wait

If you do not know in advance how long you must wait before sending additional commands, insert a wait in your sequence by pressing m # # at the appropriate place. The phone displays w. When you send the sequence, the phone waits for you to press m before it sends the rest of the stored sequence.



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PIN CODE DIALING

For security, some cellular service carriers require you to dial a personal identification number (PIN) in addition to the phone number each time you place a call. This is sometimes referred to as "PIN code dialing."

Notes:

- This service is not required (or available) on all networks. Check with your local service provider.
- If you subscribe to this service, a PIN code is assigned or selected at the time you activate your phone.

If you subscribe to PIN code dialing with your cellular carrier, you can store the PIN code into your phone's memory and set the phone to send the code at the press of a button when you place a call.

Follow these steps to program your PIN code and turn PIN code dialing on or off.

 1. Enter ★
 #
 (7_{PORS})
 4 GHI
 6 MNO
 2 ABC
 2 ABC

 5_JKL
 5_JKL
 #
 (this spells * # PIN CALL #).
 *

The phone prompts for your PIN code (**PIN** CODE?)

 To store your PIN code in the phone's memory and turn on PIN code dialing, enter your PIN code (maximum of 4 digits), then press .
 PIN CALL ON appears briefly.



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To turn off PIN code dialing, simply press without entering a number. **PIN CALL OFF** appears briefly.

When PIN code dialing is set to ON, the phone displays **PIN CALL** after you press **(END)** to place a call. When you hear the tone, press **(END)** again to automatically dial your stored PIN code.

Notes:

- When PIN code dialing is set to ON, you can place a call to the emergency number programmed into your phone (as usual) without sending the PIN code.
- If you place a call using a cellular service that does not support PIN code dialing (and PIN code dialing is set to ON), **PIN CALL** appears, but the call is connected without pressing (SEND) the second time.





STORING A NUMBER AND NAME IN MEMORY

Your phone has 40 speed-dial memory locations. Each location can hold a phone number of up to 32 digits and a name of up to 16 characters.

Follow these steps to store a phone number and name in memory.

Note: If you do not press a key for about 15 seconds during these steps, the phone exits the memory mode and (depending on the step) clears the display, turns off the backlight, or displays **NOT STORED**. Press (1) 10 to return to the previous prompt.

1. Hold down (to clear the display, then press ().

The phone prompts you to enter the name (**NAME?**) and **DEE** appears indicating that the phone is in alpha mode.

To enter a name, repeatedly (if necessary) press each key that contains the letter you want to enter until that letter appears, then press (*). (For example, to enter RAY, press (7PORS) three times, (2ABC) once, (9WXYZ) three times, then (*).) The phone prompts you to enter the phone number (NUMBER?).

To proceed without entering a name, press \circledast .



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Notes:

- Within about 2 seconds after you stop pressing a key, the cursor automatically moves to the next position. To move it sooner, press *.
- If you make a mistake, press (1) to erase each wrong letter, then try again.
- Press # to enter a space or 1[∞] to enter punctuation (-, &, ., and :).
- 3. Enter the area code (if necessary) and phone number, then press .

The phone suggests the first empty speed-dial memory (such as **STORE TO 5**?) or, if memory is full, prompts you to enter a speed-dial memory number (**STORE TO**?).

To store the number in a different memory, enter that memory's two-digit number then press \odot .

To store the number in the one-touch location, press $\textcircled{\basis}$.

The phone displays **STORED**.

Notes:

If you try to store to a memory number higher than 40, the phone displays INVALID
 LOCATION and exits the memory function.
 Press Imp 100 to return to the previous prompt.

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 If the selected memory is full, the phone prompts you to replace the contents (RE-PLACE CONTENT?).

To replace the contents, press $\textcircled{\otimes}$. The phone displays **STORED**.

- If both the name and phone number are already stored (a duplicate), the phone displays ALREADY STORED, then it prompts you to move the information to the first empty speed-dial memory (such as MOVE TO 5?). Press (a) to store the number in the suggested location, or enter the desired location number then press (a).
- To exit the memory function without storing the number, press (a). The phone displays NOT STORED and the number you tried to store. Hold down (a) to clear the display.

Hints:

- Using Memory Location 1 You can hold down 100 for about 2 seconds (see "One-Touch/Speed Dialing" on Page 51) to quickly dial the number stored in memory location 1. For convenience, store a frequently called telephone number (such as your home or office number) in this location.
- Using Memory Location 40 Setting the phone to use the call restriction level INCOM-ING ONLY (see "Selecting a Call Restriction Level" on Page 21) does not prevent you from speed-dialing the number stored in memory location 40. If you plan to use this call restriction





level, store a frequently called telephone number (such as your home number or some other "priority" number) in memory location 40.

Using Number Quick Store

To quickly store a phone number in the first unused speed-dial memory, enter the phone number, then hold down (a) for about 2 seconds. The phone briefly displays **STORED** and the speed-dial memory number it selected.

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If all speed-dial memory locations are full, the phone briefly displays **NO SPACE**, then the number you tried to store reappears. To store the number, clear a memory location (see "Clearing a Memory" on Page 52), then try again.

ONE-TOUCH/SPEED DIALING

To speed dial the number stored in Memory 1, hold down 100 for about 2 seconds.

To speed dial a number stored in any other memory, enter that memory's number, then press (END).

Note: If the selected memory is empty, the phone displays **LOCATION EMPTY**.



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MEMORY SCROLLING

To scroll forward or backward through all names or numbers stored in memory (beginning with the first or last memory location), press P (if you want to view names), then repeatedly press P (forward) or A (backward). The phone displays the stored name or phone number and its corresponding memory number.

To begin scrolling from a specific name or letter(s), press (*), enter the name or letter(s), then press or r. If the name or letter(s) you entered are not stored in memory, the phone displays **NAME NOT FOUND**, then it displays the next name in sequence.

To dial a displayed number, press SEND.

CLEARING A MEMORY

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- 1. Press (3 DEF). The phone displays and **NAME**?
- 2. If you stored a name in the memory location you want to clear, repeatedly press

 or
 to recall that name. ERASE? and the stored name appear.

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If you stored only a number in the memory location you want to clear, press (3) so disappears. The phone displays LOCATION? Enter the memory number, or repeatedly press or \frown , to recall the number you want to clear. ERASE? and the stored number appear.

3. To clear the selected memory, press (*). The phone briefly displays **ERASED** to confirm the operation, then it displays **ERASE**? and the next stored number or name in memory sequence.

Repeat Steps 2 and 3 for each memory you want to clear.

Note: To exit without clearing the selected memory, press (a). The phone displays **NOT ERASED** then exits the memory mode.

4. When you finish, press I to exit.





USING SCRATCHPAD MEMORY

Your phone's scratchpad memory lets you temporarily store a phone number *during* a call. This is useful, for example, when you don't have a pencil and paper handy! Follow these steps to store a number in the scratchpad memory.

- 1. Be sure the display is clear, then enter the number you want to store.
- 2. Press (100), then press (.
- 3. Press # so **STORE TO #?** appears, then press (*) to store the number in the scratch-pad memory. (Any number previously stored in the scratchpad memory is replaced by the new number.)

Note: The scratchpad memory is automatically cleared each time you turn off the phone.

To recall the scratchpad memory, press # then or To . (If the scratchpad memory is empty, the phone displays LOCATION EMPTY.)

To dial the number stored in scratchpad memory, recall it, then press (SEND).

To quickly transfer a number from the scratchpad memory to the first empty speed-dial memory, recall the scratchpad memory, then hold down O for about 2 seconds (see "Using Number Quick Store" on Page 51).





A new, extensive range of accessories is available for your phone through your local RadioShack store. You can select the accessories that best meet your needs.

Important: Use only accessories approved by the phone manufacturer. Using any other type invalidates any approval or warranty applying to the phone, and might be dangerous.

Here are a few practical rules for accessory operation:

- Keep the accessories out of the reach of children.
- When you disconnect any accessory's power cord, pull the plug, not the cord.
- Regularly check all cellular phone equipment in your vehicle to be sure it is mounted and operating properly.
- Have only qualified personnel install complex car accessories.





TRAFFIC SAFETY

- Do not use a handheld phone while driving a vehicle. If using a handheld phone, park the vehicle before taking or making a call.
- Always secure the phone in its holder; do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.
- Never use a phone alert device that operates your vehicle's lights or horn. This is illegal in most areas.

Remember, always put road safety first!

OPERATING ENVIRONMENT

- Remember to follow all special regulations and always turn off your phone whenever you are required to do so, or when it might cause interference or be dangerous.
- Any radio transmitting equipment, including cellular phones, might interfere with inadequately protected medical devices. Consult a physician or the manufacturer of the medical device if you have any questions. Other electronic equipment might also be subject to interference.
- As with other mobile radio transmitting equipment, for your safety, only use your phone in the normal operating position (held to your ear with the antenna pointing over your shoulder).





- Turn off the phone while getting gasoline (at a filling station). Observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or around blasting operations.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as a cellular phone or any of its parts or accessories.
- Only qualified personnel should install or service the phone in a vehicle. Faulty installation or service might be dangerous and could invalidate the phone's warranty.
- Electronic fuel injection systems, electronic anti-lock braking systems, electronic cruise control systems, and other electronic systems can malfunction due to the lack of protection from radio signals. Check regularly that all cellular phone equipment in your vehicle is mounted and operating properly.
- Turn off your cellular phone when in an aircraft. The use of cellular phones in an aircraft might be dangerous to the operation of the aircraft, disrupts the cellular networks, and is illegal.

Failure to observe these instructions could lead to suspension or denial of cellular telephone services, legal action, or both.



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EMERGENCY CALLS

IMPORTANT! This phone, like any cellular phone, operates using radio signals, cellular, and land line networks, as well as user-programmed functions. These factors make it impossible to guarantee connection in all conditions. Therefore, you should never rely solely upon any cellular phone for essential communications (such as medical emergencies).

Remember, to make or receive any calls, the phone must be turned on and in a service area with adequate cellular signal strength.

You might not be able to make emergency calls on all cellular phone networks or when certain network services or phone features are set. Check with your local service providers.

FCC REGULATIONS

A cellular phone might cause TV or radio interference, even when it is operating normally. The FCC can require you to stop using your cellular phone if you cannot eliminate the interference. If you require assistance, contact your local RadioShack store.

This device complies with Parts 15 and 68 of *FCC Rules*. Operation is subject to the condition that this device does not cause harmful interference.





If the power does not come on or stay on:

- Make sure the battery is properly installed and charged.
- Be sure that the contacts on the battery and the charging stand are clean. If they are not, clean them with a soft cloth or pencil eraser.
- The battery charge might be too low for operation. Check the display and listen for the low battery warning tone.

If the power comes on, but the phone does not work:

- Make sure that the antenna is properly installed and, if your phone has an extendable antenna, make sure that the antenna is extended to its full length.
- Check to see if there is an error message on the display after turning it on. If so, contact your local RadioShack store for assistance.





CARE AND MAINTENANCE

Your RadioShack CT-400 Handheld Cellular Phone is an example of superior design and craftsmanship and should be treated with care. These suggestions allow you to enjoy this phone for many years.

- Keep the phone and all its parts and accessories out of the reach of children.
- Keep the phone dry. Precipitation, humidity and liquids might contain minerals that corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. Temperature extremes can shorten the life of electronic devices, damage batteries, and warp or melt plastic parts.
- Do not store the phone in cold areas. When the phone warms up (to its normal operating temperature), moisture can form inside the phone, which could damage the phone's electronic circuits.
- Do not attempt to open the phone. Non-expert handling of the phone can damage it.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap and water solution.

Modifying or tampering with your phone's internal components could violate its warranty and void your FCC authorization to use it. If the phone or any of its accessories are not working properly, take them to your local RadioShack store for assistance.



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SPECIFICATIONS

Dimensions Width: 2¹/₈ in (54 mm) Height (without antenna): 6 in (152.4 mm) Depth: 1⁷/₁₆ in (37 mm)

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Weight 7.6 oz. (215 g) with Supplied Battery
Transmitting Power 0.6 W (+2 dB -4 dB)
Operating Voltage
Battery 4.8 V
Input to Charger 120 V (AC), 12 V (car)
Frequency Band 824.040–848.970 MHz (TX) 869.040–893.970 MHz (RX)
Number of Channels 832
Memories 40 Speed Dial, 1 Scratchpad

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.







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Limited One-Year Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PUR-POSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RE-SPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DI-RECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVE-NUE, OR PROFIT OR ANY INDIRECT. SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN AD-VISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

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