

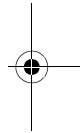
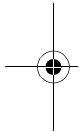
Cat. No. 43-689

OWNER'S MANUAL

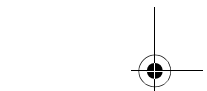
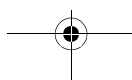
Please read before using this equipment.

ET-689

900 MHz Two-Line Cordless Telephone



RadioShack®



FEATURES

Your RadioShack ET-689 900 MHz Two-Line Cordless Telephone uses the 900 MHz band, which means clear sound with less interference and greater range than 46/49 MHz cordless telephones. Its cordless operation lets you make or answer calls just about anywhere in your home or office.

Its optional headset jack lets you connect a headset to the handset for hands-free conversation — perfect for when you are working in the yard or garage.

Its other features include:

20-Number Memory Dialing — lets you store up to 20 numbers in memory for easy dialing.

3-Way Conference — lets you make calls on two separate telephone lines and join them for a 3-way conference call.

Page — sends a signal from the base to the handset so you can locate the handset if you have misplaced it.

Handset Volume Control — lets you adjust the volume when you are away from the base.

Two-Line Distinctive Ringer — produces a different ringer sound for each line so you can tell which line is ringing without looking at the line indicators.

Note: To use both of the ET-689's lines, you must connect it to two separate telephone lines. Each of these lines must have its own phone number. If you do not have two telephone lines, contact your phone company to get a second line.

20 Channel Autoscan — automatically selects a clear channel when you make or answer a call. You can also manually change channels during a call.

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

Hearing-Aid Compatibility — lets you use your phone with hearing aids that have a T (telephone) switch.

Ample Talk and Standby Time — the supplied battery pack provides 4 hours of continuous talk time or 7 days of standby time (when fully charged).

Desk/Wall Mountable — lets you place the phone on a desk, or mount it on a wall plate or directly on a wall.

Super CCT Noise-Reduction Circuitry — gives you sound clarity comparable to corded telephones.

Quick Talk — Lets you quickly answer a call without pressing any button by simply lifting the handset from the base.

© 1998, 1999 Tandy Corporation.
All Rights Reserved.

COM-LOK and RadioShack are registered trademarks used by Tandy Corporation.

Note: Your telephone operates on standard radio frequencies as allocated by the FCC. Even though the access protection code prevents unauthorized use of your phone line, it is possible for other radio units operating on similar frequencies within a certain area to unintentionally intercept your conversations and/or cause interference. This lack of privacy can occur with any cordless phone.

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

For your records, we recommend you record your phone's serial number here. The number is on the bottom of the base.



Serial Number: _____

Important:

- Cordless phones such as this one require AC power to operate. When AC power is off, you cannot dial out or receive incoming calls using your ET-689. For this reason, the ET-689 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.

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

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



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

Each device that you connect to the phone line draws power from the phone line. We refer to this power draw as the device's *ringer equivalence number*, or *REN*. The REN is on the bottom of the base.

If you are using more than one phone or other device on the line, add up all the RENs. If the total is more than five, your phones might not ring. In rural areas, a total REN of three might impair ringer operation. If ringer operation is impaired, remove a device from the line.

FCC STATEMENT

This telephone complies with Part 68 of *FCC Rules*. Upon request, you must provide the FCC Registration Number and the REN to your phone company. These numbers are on the bottom of the base.

Note: You must not connect your phone to any of the following:

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

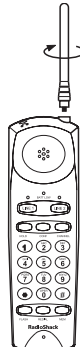
CONTENTS

Installation	6
Installing the Handset's Antenna	6
Selecting a Location	6
Mounting the Phone	7
On a Desk Top	7
On a Wall Plate	8
Directly on a Wall	9
Connecting and Charging the Battery Pack	10
Setting the Dialing Mode	12
Turning the Ringer On/Off	12
Operation	13
Making/Answering Calls	13
Changing the Channel	13
Adjusting the Handset's Volume	14
Using Redial	14
Using Flash	14
Putting a Call on Hold	15
Conference Calling	15
Using Tone Services on a Pulse Line	16
Paging	16
Memory Dialing	16
Storing a Number in Memory	16
Entering a Pause	17
Dialing a Memory Number	17
Chain-Dialing Service Numbers	17
Testing Stored Emergency Numbers	17
Using a Headset	18
Troubleshooting	19
Care and Maintenance	21
Replacing the Battery Pack	22
The FCC Wants You to Know	23
Lightning	23

INSTALLATION

INSTALLING THE HANDSET'S ANTENNA

Insert the antenna into the larger hole at the top of the handset, then screw in the antenna clockwise until it is secure.



Caution: You must use a Class 2 power source that supplies 12 volts DC and delivers at least 300 mA. Its center tip must be set to positive and its plug must fit the base's **DC 12V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the base or the adapter. You can connect your ET-689 to a 2-line modular telephone jack using one of the supplied 2-line modular cords. Or, you can connect your telephone to two separate 1-line modular telephone jacks using the supplied 2-line modular cords.

SELECTING A LOCATION

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

- near an easily accessible 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.

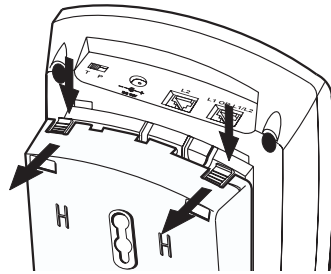
Notes:

- Your telephone connects directly to a modular telephone line jack. If your phone line jack is not a modular jack, you can update the wiring yourself, using jacks and adapters available at your local RadioShack store. Or, you can let the phone company update the wiring for you.
- The USOC number of the two-line jack to be installed is RJ14C (or RJ14W for a wall plate jack). The USOC number for a single-line jack is RJ11C (or RJ11W for a wall plate jack).

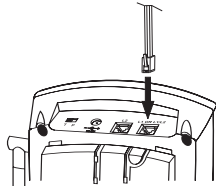
MOUNTING THE PHONE

On a Desk Top

1. Remove the base's bracket by pressing both tabs on the wide end, then lifting off the bracket.



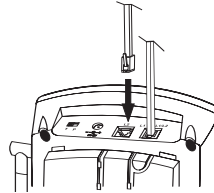
2. *If you have a single 2-line modular jack*, plug one end of the supplied 2-line long modular cord into **L1 OR L1/L2** on the back of the phone's base.



Note: When you make this connection, do not connect another modular cord to the **L2** jack. Otherwise, the phone will not operate properly.

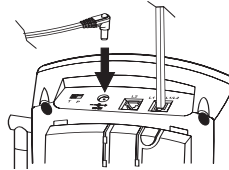
If you have two separate 1-line modular jacks, plug one end of the supplied 2-line long modular cord into **L1 OR L1/L2** and plug the other sup-

plied 2-line long modular cord into **L2**.

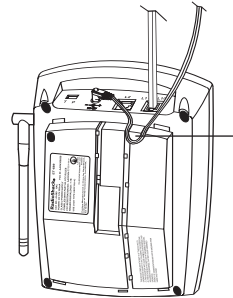


If you have a single 1-line modular jack, plug one end of either supplied long modular cord into **L1 OR L1/L2** to use line 1, or into **L2** to use line 2.

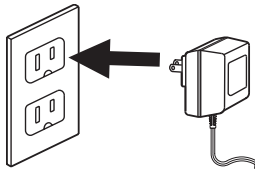
3. Plug the supplied AC adapter's barrel plug into the **DC 12V** jack on the back of the phone's base.



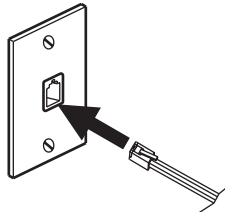
4. Route the adapter's cord through the right groove on the bottom of the base.



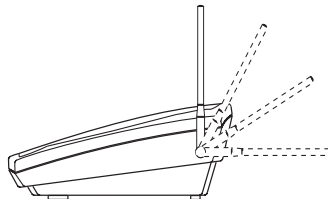
5. Insert the tabs on the narrow end of the bracket into the lower slots on the base's bottom, then push the tabs on the wide end of the bracket into the other slots until the bracket clicks securely into place.
6. Plug the AC adapter into a standard AC outlet.



7. Plug the other end(s) of the modular cord(s) into the modular telephone jack(s).



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



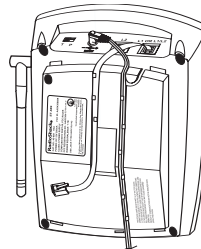
On a Wall Plate

1. Remove the base's bracket by pressing both tabs on the wide end, then lifting off the bracket.
2. *If the wall plate has a single 2-line or 1-line modular jack, plug one end of the supplied 2-line short modular cord into **L1 OR L1/L2** on the back of the phone's base.*

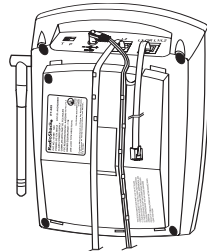
Note: When you make this connection, do not connect another modular cord to the **L2** jack. Otherwise, the phone will not operate properly.

*If the wall plate has a single 1-line modular jack, and there is another modular telephone jack close by, plug one end of the supplied 2-line short modular cord into **L1 OR L1/L2**, and plug the supplied 2-line long modular cord into **L2**.*

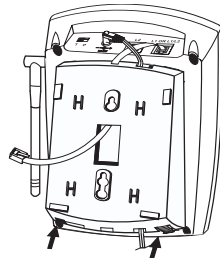
3. Plug the supplied AC adapter's barrel plug into the **DC 12V** jack on the back of the phone's base.
4. Route the AC adapter's cord through the right groove on the bottom of the base. Route the short modular cord through the left groove on the bottom of the base.



If you need to connect a long modular cord to the **L2** jack, remove the short modular cord from the left groove and route the long modular cord through the groove on the bottom of the base.

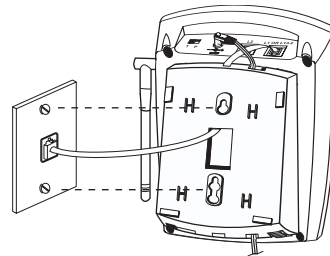


5. Route the end of the short modular cord through the hole in the center of the bracket, then insert the tabs on the narrow end of the bracket into the upper slots on the base's bottom.



6. Route the adapter cord and the long modular cord (if you have connected it) through each slot on the bottom of the wide end of the bracket, then push the tabs on the wide end of the bracket into the other slots until the bracket clicks securely into place.
7. Plug the AC adapter into a standard AC outlet.

8. Plug the short modular cord into the wall plate jack, then align the base's keyhole slots with the wall plate studs and slide the base downward to secure it.



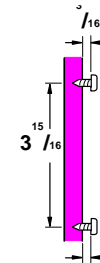
If you attached a long modular cord, plug it into the other phone line jack.

9. Lift the base's antenna to a vertical position.

Directly on a Wall

For this mounting method, you need two screws (not supplied) with heads that fit into the keyhole slots on the mounting bracket.

1. At the desired mounting location, drill two holes $3\frac{15}{16}$ inches (100 mm) apart vertically. Then thread a screw into each hole, letting the heads extend about $\frac{3}{16}$ inch (5 mm) from the wall.



2. Remove the bracket by holding in both tabs on the wide end, then gently pulling out the wide end of the bracket.

3. *If you have a single 2-line modular jack*, plug one end of the supplied long 2-line modular cord into **L1 OR L1/L2** on the back of the phone's base.

Note: When you make this connection, do not connect another modular cord to the **L2** jack. Otherwise, the phone will not operate properly.

If you have two separate 1-line modular jacks, plug one end of the supplied 2-line long modular cord into **L1 OR L1/L2** and plug the supplied 2-line long modular cord into **L2**.

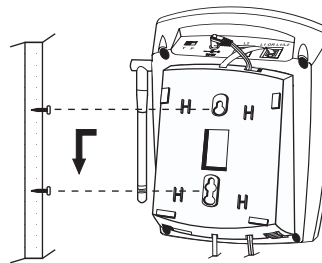
If you have a single 1-line modular jack, plug one end of either supplied long modular cord into **L1 OR L1/L2** to use line 1, or into **L2** to use line 2.

4. Plug the supplied AC adapter's barrel plug into the **DC 12V** jack.
5. Route the adapter's cord through the right groove on the bottom of the base. Route the long modular cord through the left groove on the bottom of the base.

If you have connected two long modular cords, route the cord connected to **L1 OR L1/L2** through the right groove on the bottom of the base, and route the cord connected to **L2** through the hole in the center of the bracket.

6. Insert the tabs on the narrow end of the bracket into the slots on the base's bottom as shown, then push the tabs on the wide end of the bracket until it clicks securely into place.

7. Plug the AC adapter into a standard AC outlet.
8. Plug the other end(s) of the cord(s) into a modular phone line jack(s).
9. Align the base's keyhole slots with the mounting screws and slide the base downward to secure it.

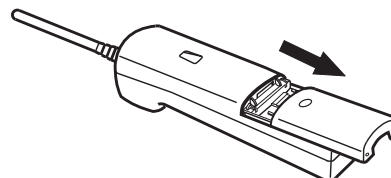


10. Lift the base's antenna to a vertical position.

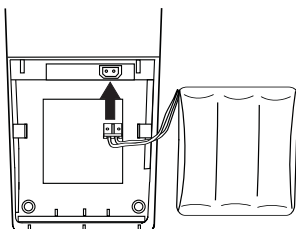
CONNECTING AND CHARGING THE BATTERY PACK

The ET-689 comes with a rechargeable nickel-cadmium battery pack in the handset but not connected. Before using your phone, you must connect the battery pack, then charge it for about 15 hours.

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



- Remove the battery pack and plug its connector into the phone's socket. The connector fits only one way.



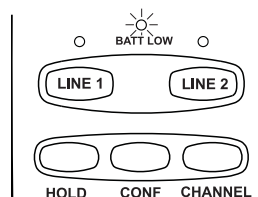
- Put the battery pack back in the compartment, then replace the cover.

To charge the battery pack, place the handset on the base either face up or face down. The CHARGE indicator on the base lights.

Note: The battery pack will *not* fully charge when you place the handset on the base face up.

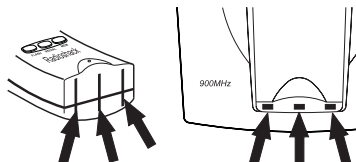


Recharge the battery pack when the BATT LOW indicator on the handset flashes.



Notes:

- If the CHARGE indicator does *not* light when you place the handset on the base, be sure the battery pack and AC adapter are correctly and securely connected. Even if they are, your handset's battery power still might be low. Wait 3 minutes. The CHARGE indicator should light.
- After charging or recharging the battery pack, the phone might not work and you might hear an error tone. If this happens, return the handset to the base for a few seconds.
- If the battery pack gets completely discharged or the base loses power while the handset is away from it, reset the security access-protection code by placing the handset on the base. If the handset lost power, leave the handset on the base to charge the battery pack.
- Using a pencil eraser, clean the charging contacts on the handset and the base about once a month to make sure they are not dirty or tarnished.



- If the BATT LOW indicator does not light, but the phone does not work, recharge the battery pack. (The battery pack charge might be too low to light the indicator.)
- If the battery pack gets weak during a call, the handset sounds 4 beeps every 30 seconds and the BATT LOW indicator flashes for 4 minutes. After 4 minutes, the phone automatically disconnects. If this happens, you must recharge the battery pack before you can make another call.
- About once a month, fully discharge the battery pack by keeping the handset off the base until the BATT LOW indicator lights. Otherwise, the battery pack loses its ability to fully recharge.

- When you hear the dial tone, 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 .

If the dial tone stops, that line has tone service.

If the dial tone continues, that line has pulse service.

- Press **LINE 2**, listen for the dial tone, and repeat Step 3.

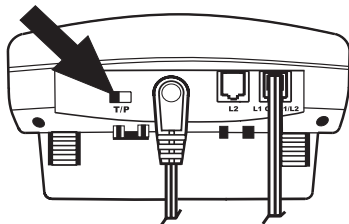
If you have tone service on both lines, leave **T/P** set to **T**.

If you have pulse service on either line, set **T/P** to **P**.

SETTING THE DIALING MODE

Set **T/P** (tone/pulse) on the back of the base for the type of service you have. If you are not sure which type you have, once the battery pack is charged, do this test.

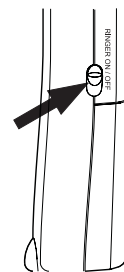
- Set **T/P** to **T**.



- Lift the handset and press **LINE 1**.

TURNING THE RINGER ON/OFF

You can turn the ET-689's ringer on and off. Set **RINGER** on the side of the handset to **ON** to hear an incoming call or a page from the base. Set **RINGER** to **OFF** to silence the ringer.

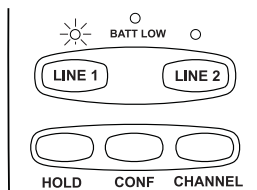


Note: Even if you turn off the ringer on the handset, you can still make or receive calls using this cordless phone. Telephones on the same line still ring when there is an incoming call, and the line indicator on the ET-689's base flashes until you answer the call.

OPERATION

MAKING/ANSWERING CALLS

To make a call, pick up the handset and press **LINE 1** or **LINE 2** to select the line you want to use. When the line indicator lights steadily and you hear the dial tone, dial the phone number.



To answer a call if the handset is on the base, simply lift the handset and begin your conversation.

To answer a call if the handset is not on the base, press **LINE 1** or **LINE 2** depending on which line indicator is flashing.

To end a call, place the handset on the base or press the line button for that line.

Notes:

- If you press the line button to hang up and the phone does not disconnect, press the line button again while holding the handset closer to the base, or place the handset on the base.
- When you receive an incoming call on one line while you are talking on the other, the handset does not ring but you hear a tone through the ear-piece. Place the current call on hold

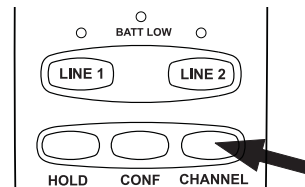
(see "Putting a Call on Hold" on Page 15), then press the other line's button to answer the incoming call.

- If you move the handset outside the base's range (about 300 feet of unobstructed space) the handset will not operate properly and a call in progress might be disconnected.

CHANGING THE CHANNEL

The ET-689 scans 20 channels (frequency pairs used between the base and the handset) and automatically selects a clear channel each time you make or receive a call.

If you hear other conversations or excessive noise during a call, press **CHANNEL** to select a different channel.

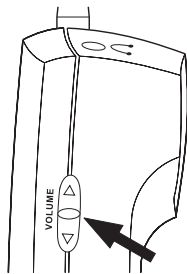


Each time you press **CHANNEL**, the indicator for the line you use blinks as your phone searches for a clearer channel.

Note: If the handset is too far from the base, the channel might not change. Move closer to the base and try again.

ADJUSTING THE HANDSET'S VOLUME

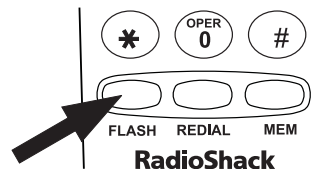
The ET-689 has three volume levels. To change the volume you hear through the handset, press **VOLUME ▲** or **▼** on the side of the handset to increase or decrease the volume during a call.



- The redial memory does not store a flash entry or any digits you press after **FLASH** (see "Using Flash").

USING FLASH

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

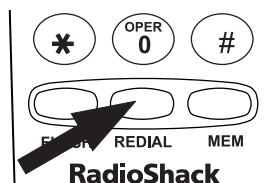


For example, if you have Call Waiting, press **FLASH** to answer an incoming call without disconnecting the current call. Press **FLASH** again to return to the first call.

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

USING REDIAL

You can quickly dial the last number dialed on a line. Press the button (**LINE 1** or **LINE 2**) for the line you want to use, then press **REDIAL** when you hear a dial tone.

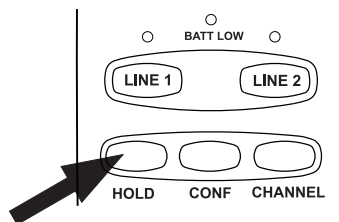


Notes:

- The redial memory holds up to 24 digits, so you can redial long-distance as well as local numbers.
- The redial memory also holds pause entries. See "Entering a Pause" on Page 17.

PUTTING A CALL ON HOLD

Press **HOLD** to put a call on hold so you can use the other phone line without disconnecting the current call. The line indicator flashes when a call on that line is on hold.



Note: Do not return the handset to the base while a call is on hold. Placing the handset on the base after you press **HOLD** disconnects the call.

To release a line from hold and continue your conversation, press that line's button.

Note: If you do not pick up the call again within 3 minutes after putting it on hold, the phone disconnects the call.

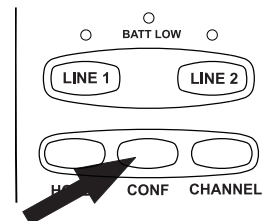
You can alternate between the two lines by pressing **HOLD** then the button for the desired line.

Note: If you press the other line's button without first pressing **HOLD**, the first call is disconnected.

CONFERENCE CALLING

Follow these steps to have a 3-way conference call.

1. Place the first call on hold.
2. Make or answer a call on the other line.
3. Press **CONF**. Both line indicators briefly flash then light steadily. All three parties are connected.



Note: During conference calls, some long-distance calls might sound weaker than local calls.

To talk on only one line without disconnecting the other line, press **HOLD** to put both lines on hold. Then press the button for the line you want to talk on.

To return to a three-way conversation, press **CONF**.

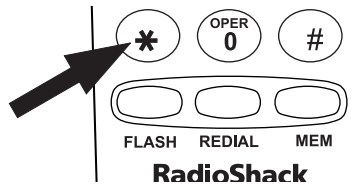
To end the conference call, press **CONF** or return the handset to the base.

To hang up one line and continue talking on the other, press the line button for the line you want to keep using.

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.

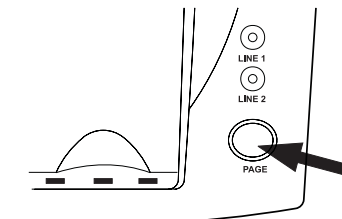
1. Be sure **T/P** is set to **P**.
2. Dial the service's main number.
3. When the service answers, press *****. Any additional numbers you dial are sent as tone signals.



4. After you complete the call, return the handset to the base or press the button for the line you were using. The phone automatically resets to the pulse mode.

PAGING

To locate the handset when the phone is not in use, press **PAGE** on the base. The handset beeps three times.



If you hold down **PAGE** for 2 seconds, the handset beeps for 3 minutes to give you more time to locate it. To stop it sooner, press **PAGE** once or either line button twice.

MEMORY DIALING

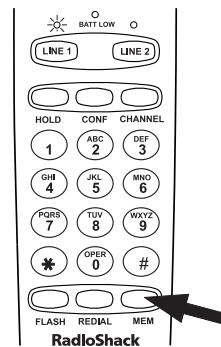
You can store up to 20 numbers, then dial any of the stored numbers by pressing a two-digit memory location number.

Each stored number can be up to 24 digits long.

Storing a Number in Memory

Note: If you wait more than 20 seconds between each key press, an error tone sounds and the phone exits the storing mode.

1. Press **MEM** on the handset. The **LINE 1** indicator flashes.



2. Enter the number and any tone and pause entries (see "Using Tone Services on a Pulse Line" on Page 16 and "Entering a Pause").

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

3. Press **MEM**, then enter the memory location number (01–20). The phone pauses to confirm that each digit was stored, then it beeps to indicate that the number is stored.

Note: If three quick beeps sound, you have made an error and the number was not stored. Start again from Step 1.

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

Or, to clear a memory location, skip Step 2, then enter the memory location number (01–20) you want to clear. A tone sounds.

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 3-second pause, press **REDIAL** after entering the access code. For a longer pause, press **REDIAL** again.

Dialing a Memory Number

To dial a number stored in memory, lift the handset and press the button for the line you want to use.

When you hear a dial tone, press **MEM** and enter the memory location number for the number you want to dial.

Chain-Dialing Service Numbers


When calling special services (such as alternate long distance or bank-by-phone), 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.

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.

USING A HEADSET

You can make or answer calls with hands-free convenience using an optional headset that has a $\frac{3}{32}$ -inch (2.5-mm) plug, available at your local RadioShack store.

To connect the headset, insert the headset's $\frac{3}{32}$ -inch (2.5 mm) plug into the jack marked  on the top of the handset.



Notes:

- Connecting a headset disconnects the handset's earpiece and microphone.
- **VOLUME** ▲/▼ 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.

For hands-free conversation, you can use a handset holder, available at your local RadioShack store, to hang the handset on your belt.

TROUBLESHOOTING

We do not expect you to have any problems with your ET-689, but if you do, the following suggestions might help.

Problem	Suggestion
Low volume or unusual sounds.	Someone has picked up another phone on the same line. Hang up the other phone.
Severe noise interference.	Keep the handset away from computers, remote control toys, wireless microphones, alarm systems, intercoms, room monitors, fluorescent lights, and electrical appliances.
	Press CHANNEL to change the channel.
	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 (the handset's range has decreased).	Fully extend the base's antenna, and place it in a vertical position.
	Be sure neither antenna is touching a metal surface.
	Return the handset to the base to recharge the battery pack.
The phone does not work or works poorly.	Be sure the base's phone line cord and AC adapter are correctly and securely connected, and the battery pack is connected and charged.
The handset battery pack does not charge.	Be sure the battery pack is properly connected.
	Check the charging contacts on the handset and base. If they are dirty, clean them with a pencil eraser.
	Replace the battery pack. (See "Replacing the Battery Pack" on Page 22.)

Problem	Suggestion
The handset does not ring or receive a page.	Fully extend the base's antenna and place it in a vertical position.
	Move the handset closer to the base.
	Move the base away from other electrical devices.
	Return the handset to the base to recharge the battery pack.
The handset stops working or works poorly during a call.	Move the handset closer to the base.
	Fully extend the base's antenna and place it in a vertical position.
	Return the handset to the base for 6 seconds to reset the handset.
	Be sure the handset's battery is charged. (If the battery power is too low, it might not have enough power to light the BATT LOW indicator.)
	If the base loses power while the handset is away from it, the security access-protection code might change. Restore power to the base, then place the handset back on the base. The CHARGE indicator on the base lights, indicating that the code is set again.
The indicators for Lines 1 and 2 on your handset flash, but there is no dial tone.	Check that the phone line cord(s) and the AC adapter are properly connected at both ends.
	Check to see if both lines are on hold.
The Line 1 or Line 2 indicator continuously flashes when you are not using the phone.	Only one phone line is connected. Check that both phone lines are properly connected.

If you still have problems, disconnect the phone. If other phones on the same line(s) 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 AND MAINTENANCE

Your RadioShack ET-689 900 MHz Two-Line Cordless Telephone is an example of superior design and craftsmanship. The following suggestions will help you care for your cordless telephone so you can enjoy it for years.



Keep the phone dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the phone only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.



Keep the phone away from dust and dirt, which can cause premature wear of parts.



Handle the phone gently and carefully. Dropping it can damage circuit boards and cases and can cause the phone to work improperly.



Wipe the phone with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.

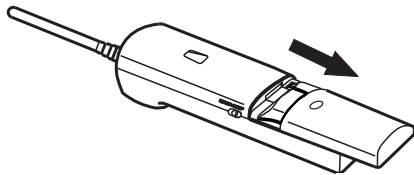
Modifying or tampering with the telephone's internal components can cause a malfunction and might invalidate your telephone's warranty and void your FCC authorization to operate it. If your phone is not performing as it should, take it to your local RadioShack store for assistance. If the trouble is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

REPLACING THE BATTERY PACK

If you follow the instructions in "Connecting and Charging the Battery Pack" on Page 10, the battery pack should last about a year. If the battery pack will not hold a charge for more than 2 hours after an overnight charge, replace the battery pack with a new 3.6V, 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.

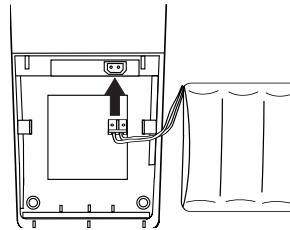
Install the new battery pack as described below, then charge the battery pack for about 15 hours before you use it.

1. Press down and slide off the battery pack cover as shown.



2. Gently pull on the battery pack connector to disconnect it, then remove the battery pack.

3. Plug the fresh battery pack's connector into the phone's socket. The connector fits only one way.



4. Put the new battery pack in the compartment, then replace the cover.

Cautions:

- You must use a replacement battery pack of the same size and type.
- Do not dispose of the battery pack in a fire because it might explode.
- Do not open or mutilate the battery pack.
- Be careful not to short the battery pack by touching it with conducting materials, such as rings, bracelets, and keys. The battery pack or conductor might overheat and burn.

Important: This product contains a rechargeable nickel cadmium battery pack. At the end of the battery pack's useful life, it must be recycled or disposed of properly. Contact your local, county, or state hazardous waste management authorities for information on recycling or disposal programs in your area. Some options that might be available are: municipal curbside collection, drop-off boxes at retailers such as your local RadioShack store, recycling collection centers, and mail-back programs.

THE FCC WANTS YOU TO KNOW

In the unlikely event that your 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.

Your phone might cause TV or radio interference even when it is operating properly. To determine whether your phone is causing the interference, turn off your phone. If the interference goes away, your phone is causing the interference.

Try to eliminate the interference by:

- moving your phone away from the receiver
- connecting your phone to an AC outlet that is on a different electrical circuit from the receiver
- contacting your local RadioShack store for help

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

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.

LIGHTNING

Your telephone has built-in lightning protection to reduce the risk of damage from surges in telephone line and power line current. This lightning protection meets or exceeds 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 during storms to reduce the possibility of damage.

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. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY 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, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED 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.

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.

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

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

We Service What We Sell

04/99

RadioShack
A Division of Tandy Corporation
Fort Worth, Texas 76102

06A99

Printed in China