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ET-2105

900 MHz Hands-free Phone

OWNER'S MANUAL — Please read before using this equipment.

FEATURES

Your RadioShack 900 MHz Hands-free Phone combines the clarity of 900 MHz communication with portability and convenience. The phone's cordless keypad clips to your belt or clothing so you can make and answer calls away from the base. The earphone with microphone lets you keep your hands free while you talk.

Your phone has these features:

Ample Talk and Standby Time — when fully charged (about 12 hours), the supplied battery provides about 7 hours of talk time or 7 days of standby time.

Ten-Memory Speed Dial — stores up to ten frequently called phone numbers for easy dialing.

Ten-Channel Auto Scan — automatically selects a clear channel when you make or answer a call.

Security Access-Protection Code — prevents other cordless phone users from using your phone line. Each time you place the keypad on the base, the keypad automatically sets a new security access-protection code.

Volume Control — lets you control the volume of the sound you hear through the earphone.



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Page — lets you send a paging signal from the base to the keypad to help locate a misplaced keypad or page someone at the keypad.



Detachable Belt Clip — lets you carry the keypad on your belt or clothing for easy portability.

Earphone Compartment with Cover — lets you store the earphone when not in use.

Neck Strap Hole — lets you thread a neck strap (not supplied) through the keypad and hang the keypad around your neck.

Your phone is ETL listed to UL standards and meets all applicable FCC standards.

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



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



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

READ THIS BEFORE INSTALLATION

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

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

Your phone complies with Part 68 of *FCC Rules*. You must, upon request, provide the FCC registration number and the REN to your telephone company. Both numbers are on the bottom of your phone's base.

Note: You must not connect your phone to:

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

Important:

- Cordless phones such as this one require AC power to operate. When the AC power is off, you cannot dial out or receive incoming calls using your phone. For this reason, the phone should not be your only telephone. To be safe, you should also have a phone that does not require AC power to operate (not a cordless phone) so you can still make and receive calls if there is an AC power failure.
- Some cordless phones operate at frequencies that might cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless phone should not be placed near or on top of a TV or VCR.
- Your cordless phone operates on standard radio frequencies, as allocated by the FCC. Even though your phone's 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 possible lack of privacy can occur with any cordless phone.

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.

LIGHTNING

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

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

FCC STATEMENT

The phone complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your equipment might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the radio or TV.

- Use outlets on different electrical circuits for the equipment and the radio or TV.

Consult your local RadioShack store if the problem still exists.

PREPARATION

Selecting a Location

You can place the phone's base on a flat surface such as a desk, shelf, or table.

Select a location that is:

- near an easily accessible AC outlet
- near a telephone line jack
- out of the way of normal activities
- away from electrical machinery, electrical appliances, metal walls, filing cabinets, wireless intercoms, security alarms, and room monitors

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

Caution: The supplied AC adapter was designed specifically for your phone. Use only the supplied adapter.

Your telephone connects directly to a modular telephone line jack. If your telephone wiring does not have a modular jack, you can update the wiring yourself using jacks and adapters (available at your local RadioShack store), or have the telephone company up-

date the wiring for you. You must use compatible modular jacks that are compliant with Part 68 of *FCC Rules*.

Note: The USOC number of the jack to be installed is RJ11C.

CONNECTING THE BASE

You can power the base using the supplied 12V, 200 mA AC/DC adapter.

Cautions:



You must use a Class 2 power source that supplies 12V DC and delivers at least 200 mA. Its center tip must be set to positive and its plug must fit the phone's **DC 12V 200mA** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the phone or the adapter.

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

Follow these steps to connect the base to a phone line and AC power:

1. Plug one end of the supplied modular cord into the **TEL LINE** jack on the back of the base.
2. Plug the modular cord's other end into a modular phone line jack.
3. Insert the supplied AC adapter's barrel plug into the **DC 12V 200mA** jack on the back of the base.
4. Plug the adapter into a standard AC outlet.

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

Connecting, Charging, and Replacing the Battery Pack

The phone comes with a rechargeable NiMH battery pack. You must connect the battery pack and charge it for at least 12 hours before you use the phone for the first time.

1. Press down and slide off the battery pack compartment cover.
2. Lift the battery pack out of the compartment.
3. Plug the battery pack's connector into the socket in the compartment (the connector fits only one way), then replace the battery pack.
4. Replace the cover.

To charge the battery pack, place the keypad faceup on the base. The CHARGE/IN USE indicator lights.

Notes:

- Recharge the battery pack if the keypad beeps and the IN USE/LOW BATT indicator on the keypad flashes while you are using the phone, or if the IN USE/LOW BATT indicator flashes when the phone is not in use.
- When you first use the phone after charging or recharging the battery pack, the phone might not work. Return the keypad to the base for about 5 seconds to reset the security access-protection code.

- If the CHARGE/IN USE indicator does not light when you place the keypad on the base, be sure the battery pack and AC adapter are correctly and securely connected. Also, check the charging contacts on the keypad and base. If the contacts are dirty or tarnished, clean them with a pencil eraser.
- If the battery pack becomes completely discharged or the base loses power while the keypad is away from it, place the keypad on the base for about 5 seconds to reset the security access-protection code. If the keypad loses power, leave it on the base to charge the battery pack.
- If you are not going to use your phone for an extended period of time, disconnect its battery pack. This helps increase the battery pack's life.
- When the keypad is on the base, the CHARGE/IN USE indicator lights even when the battery pack is not connected. If your phone does not work, be sure the battery pack is properly connected.

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

Note: To avoid losing numbers stored in memory, you must install and begin charging the new battery pack within 2 minutes of removing the old one.

Warning: Dispose of the old battery pack promptly and properly. Do not burn or bury it.

Cautions:

- 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.
- Do not open or mutilate the battery pack.

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

Setting the Ringer

OFF/ON RINGER, on the right side of the handset, controls the keypad ringer. To have the phone ring when a call comes in, slide **RINGER** to **ON**. To turn the ringer off, slide **RINGER** to **OFF**.

When **RINGER** is set to **OFF**, the phone does not ring, but you can still make outgoing calls. If you hear an extension telephone ring, you can answer the incoming call on this phone. The **CHARGE/IN USE** indicator on the base and **IN USE/LOW BATT** on the keypad indicator flash until you answer the call.

Setting the Dialing Mode

Set **TONE/PULSE** on the back of the base for the type of service you have. If you are not sure which type you have, do this simple test after charging the battery pack.

1. Set **TONE/PULSE** to **TONE** before use.
2. Press **TALK** so the **CHARGE/IN USE** indicator lights then listen for a dial tone.
3. Press any number other than **0** and **1**.


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

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

*If you have tone service, leave **TONE/PULSE** set to **TONE**. If you have pulse service, set **TONE/PULSE** to **PULSE**.*

4. To hang up, place the keypad on the base or press **TALK**.

Using the Earphone

1. Insert the earphone's plug into the  jack on the side of the keypad.
2. Place the mono-earphone in either ear.
3. Move the clip along the earphone cord and clip it to your clothing.

When you are not using the earphone, follow these steps:

1. Open the earphone compartment cover by pulling its tabs on both sides.
2. Place the earphone in the compartment.
3. Close the compartment cover.

Using the Belt Clip

You can use the belt clip to hang the keypad on your belt or waistband for hands-free carrying. To attach the belt clip, snap the up-

per side of the clip into the slots on both sides of the keypad. To remove the belt clip, pull out on either side of the clip.

OPERATION

Before you use the phone, place the earphone in either ear and attach the clip to your clothing (see “Using the Earphone” on Page 11).

Making and Receiving Calls

To make a call, lift the keypad from the base, then press **TALK**. You hear a dial tone and the CHARGE/IN USE indicator on the base and the IN USE/LOW BATT indicator on the keypad light. Dial the number.

To answer a call, lift the keypad from the base, then press **TALK**. The CHARGE/IN USE and IN USE/LOW BATT indicators light.

To end a call, place the keypad on the base or press **TALK**.

Notes:

- When you press a button, a single tone indicates that the phone has accepted the command. Three tones indicate that you pressed a button in error or there is severe interference. (See “Changing Channels”).
- If interference is severe, the keypad might lose communication with the base and the call might disconnect. If this happens, return the keypad to the base for about 5 seconds to reset the security access-protection code.

Adjusting the Keypad's Volume

To adjust the keypad's volume level (4 levels), repeatedly press **VOLUME ▼** or **▲** during a call until the sound level is comfortable. The volume level remains set even after you hang up.

Note: The keypad beeps 3 times when you reach the lowest or highest volume level.

Changing Channels

Every time you press **TALK**, the phone automatically selects a clear channel it uses for communication between the keypad and the base. If you hear interference during a call, repeatedly press **CH** to change the channel until you get a clear one.

Using Redial

To redial the last number dialed, press **TALK** then **REDIAL/PAUSE**.

You can also redial a busy number quickly without hanging up the phone. Press **REDIAL/PAUSE**. You hear a dial tone then the phone automatically redials the number.

Notes:

- The redial memory holds up to 32 digits, so you can redial long-distance as well as local numbers.
- The redial memory can also store tone and pause entries (see "Using Tone Services on a Pulse Line" on Page 14 and "Entering a Pause in a Memory Number" on Page 16).

Using Mute

To talk to someone else in the room without the person on the other end of the phone line hearing your conversation, press **MUTE**. Press **MUTE** again to resume your phone conversation.

Using Flash

FLASH provides the electronic equivalent of a switchhook signal for special phone service 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 your current call.

Using Tone Services on a Pulse Line

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

1. Dial the service's main number.
2. When the service answers, press **TONE/*** . Any additional numbers you dial are sent as tone signals.
3. After you complete the call, press **TALK** or return the keypad to the base. The phone automatically resets to pulse dialing.

Using Page

You can send a page to the keypad to locate it when it is away from the base and not in use. To page the keypad, press **PAGE/FIND** on the base. The keypad rings for about 15 seconds. To find the keypad, press and hold **PAGE/FIND**. The keypad rings for about 1 minute. Press any key on the keypad or **PAGE/FIND** on the base to silence it sooner.

MEMORY DIALING

You can store up to ten numbers of 16 digits each in the phone's memory.

Notes:

- To keep your accounts secure, we recommend you do not store your personal access code for services such as bank-by-phone in a memory location.
- When storing numbers for special services (such as alternate long-distance or bank-by-phone), store the service's main phone number in one memory location and numbers for additional information in other locations.

Storing a Number in Memory

1. Press **MEM** on the keypad. The IN USE/LOW BATT indicator flashes.
2. Dial the desired number (up to 16 digits including any pause entries).
3. Press **MEM** again to store the number.

4. Press the memory location number (1-0) you want to store. The keypad sounds two long beeps.

Note: If you hear three short beeps, you did not store the number successfully. Begin again from Step 1.

5. Write down the stored name and number on the memory label provided.

Note:

- If the low battery warning tone sounds while you are on the phone and the IN USE/LOW BATT indicator flashes, recharge or install the battery within 2 minutes, or the phone will not retain the numbers stored in memory (see “Connecting, Charging, and Replacing the Battery Pack” on Page 8).
- If you receive a call while you are storing a number in memory, press **TALK** to answer the call. After the call, begin again at Step 1.
- To change a number stored in memory, simply store a new number in that memory location.

Entering a Pause in a Memory Number

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, if you do, you should also store a pause after the access code to allow the outside line time to connect. After entering the access code, press **REDIAL/PAUSE** to enter a 2-second pause.

Dialing a Stored Number

Press **TALK**. When you hear the dial tone, press **MEM** then the memory location number (1–0). The phone dials the number.

Chain Dialing Service Numbers

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

When calling special services, dial the service's main number first. Then, at the appropriate place in call, press **MEM**, then the number for the location where the additional numbers are stored.

Testing Stored Emergency Numbers

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

TROUBLESHOOTING

We do not expect you to have any problem with your telephone, but if you do, these suggestions might help.

Problem	Suggestion
The keypad does not work.	Move the keypad closer to the base.
	Raise the base's antenna to a vertical position.
	Make sure the phone's modular cord and the AC adapter are correctly and securely connected.
	Make sure the keypad's battery pack is properly connected and charged (see "Connecting, Charging, and Replacing the Battery Pack" on Page 8).
	Recharge the keypad's battery pack.
	Place the keypad on the base for about five seconds to reset the security access-protection code.
The call is noisy.	Keep the keypad and base away from interference sources such as computers, remote control toys, wireless alarm systems, wireless intercoms and room monitors, fluorescent lights, and electrical appliances. If the interference is severe, turn off the device.
	Move the keypad closer to the base.
	Hang up and redial the number.
	Press CH to change the channel.
The range decreases.	Make sure the base's antenna is raised and is not touching a metal surface.
	Recharge the keypad's battery pack.

Problem	Suggestion
You can receive but not make calls.	Set TONE/PULSE correctly for the type of service you have (see "Setting the Dialing Mode" on Page 10).

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

CARE

Keep the phone dry; if it gets wet, wipe it dry immediately. Use and store the phone only in normal temperature environments. Handle the phone carefully; do not drop it. Keep the phone away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new. Modifying or tampering with the phone's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your phone is not performing as it should, take it to your local RadioShack store for assistance. If the trouble is affecting the telephone lines, the phone company can ask you to disconnect your phone until you have resolved the problem.

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 limitations on how long an implied warranty lasts or the exclusion or limitation 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.

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