

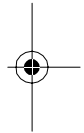
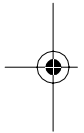
Cat. No. 43-1046

## OWNER'S MANUAL

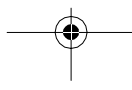
Please read before using this equipment.

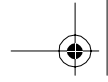
# ET-546

## 25-Channel Cordless Telephone with 10-Number Memory



# Radio Shack





## FEATURES

Your Radio Shack ET-546 25-Channel Cordless Telephone with 10-Number Memory includes the latest advances in cordless phone technology. It includes the following features:

**25-Channel Auto-Scan**— automatically selects the channel with the best performance and least interference. You can also change the channel manually.

**Advanced Super CCT Circuitry** — provides clarity comparable to a corded phone, reduces background noise, and increases effective operating distance.

**10-Number Memory** — lets you store 10 phone numbers in memory for easy dialing.

**COM-LOK** — ensures that other cordless phone users cannot use your phone line while the handset is on the base.

**Automatic Security Access Code** — changes each time you return the handset to the base to help prevent other cordless phone users from using your phone line while the handset is off the base.

**Flash** — sends an electronic switch-hook signal for use with special phone services such as call waiting.

**Redial** — quickly redials the last number dialed, with the touch of a button.

**Touch Tone or Pulse (Rotary) Dialing** — lets you connect your phone to either type of service.

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

We recommend you record your phone's serial number in the space below. The serial is on the bottom panel of the base.

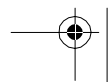
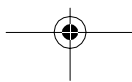
Serial Number: \_\_\_\_\_

Please read this owner's manual carefully so you can enjoy all of your telephone's features.

**Important:** Cordless phones such as this one require AC power to operate. When the AC power is off, you cannot dial out or receive incoming calls using your cordless phone. For this reason, the cordless 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.

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



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

**Note:** Your 25-Channel Cordless Telephone with 10-Number Memory operates on standard radio frequencies, as allocated by the FCC. Therefore, it is possible for other radio units operating on similar frequencies, within a certain area, to inadvertently intercept your conversations and/or cause interference on your cordless telephone. This lack of privacy can occur with any cordless telephone.

**Warning:** To prevent fire or shock hazard, do not expose this product to rain or moisture.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
<b>CAUTION:</b> 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 telephone to conform to federal regulations, and you can connect it to most telephone lines. However, 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 shown on the bottom of your phone.

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 phone 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*. You must, upon request, provide the registration number and the REN to your phone company. These numbers are located on the bottom of your phone.

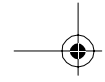
**Note:** You must not connect your phone to any of the following:

- Coin-operated systems
- Party-line systems
- Most electronic key phone systems

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## PREPARATION

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### CONNECTING THE BATTERY

Before you use your phone for the first time, you must connect the battery, then charge it for about 12-15 hours.

Slide off the battery compartment cover on the back of the handset. Connect the battery to the pins inside the battery compartment.

Then replace the cover, install the handset's antenna, mount the phone (see "Selecting a Location"), and follow the instructions under "Charging the Battery."

### INSTALLING THE HANDSET'S ANTENNA

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

### SELECTING A LOCATION

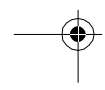
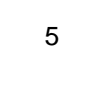
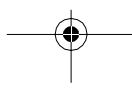
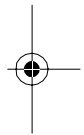
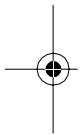
You can place your phone on a desk, shelf, or table, or mount it on a wall. Select a location that is:

- Near an AC outlet
- Near a telephone line jack
- Out of the way of normal activities
- Away from fluorescent lights, electrical machinery, electrical appliances, and metal walls or filing cabinets
- Away from computers, remote control toys, wireless intercoms, 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.

#### Notes:

- If the phone line jack is not a modular jack, you must update the wiring. You can do this yourself, using jacks and adapters available at your local Radio Shack store, or you can let the phone company update the wiring for you.
- The phone company will charge you for the installation of the necessary jacks.





- The USOC number of the jack to be installed is RJ11W for a wall jack or RJ11C for a baseboard jack.

**Caution:** You must use a 120 VAC/12 VDC adapter that delivers at least 200 milliamps. Its plug must correctly fit the phone's **12VDC** jack. The supplied adapter meets these requirements. Using an adapter that does not meet these requirements could damage the phone or the adapter.

### Placing the Base on a Desk Top

Follow these steps when you place the base on a desk, shelf, or table.

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 **12VDC** jack on the back of the base.
4. Plug the adapter into a standard AC outlet.

5. Place the handset upright over the charging contacts on the top of the base (see "Charging the Battery").

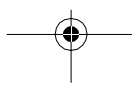
**Note:** The phone will not charge if you try to use the charging contacts on the side of the base while it is flat on a desk top.

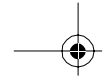
6. Move the base's antenna to a vertical position.

### Mounting the Base on a Wall Plate

You need a short modular cord (such as Radio Shack Cat. No. 279-390, not supplied) and a standard wall plate for this mounting method.

1. Plug one end of the short modular cord into the **TEL. LINE** jack on the back of the base.





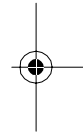
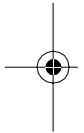
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2. Route the short cord downward through the slot on the base's bottom and under the clips as shown.

5. Insert the supplied AC adapter's barrel plug into the **12VDC** jack on the back of the base. Then plug the adapter into a standard AC outlet.

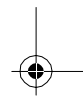
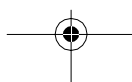
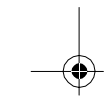
3. Route the other end of the short cord through the hole in the bracket's center.

6. Plug the modular cord into the wall plate's jack.



4. Attach the supplied bracket to the bottom of the base by inserting the tabs on the bracket into the slots on the base, then sliding the bracket up.

7. Align the bracket's keyhole slots with the wall plate studs and slide the base downward to secure it.





8. Carefully place the handset in the cradle at the top of the base and make sure it is secure.

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

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

3. On the bottom of the base, route the modular cord downward and under the slot's clips as shown.

**Note:** If you later want to mount the base on a desktop, press **PUSH** on the bottom of the base and slide the bracket down to remove it.

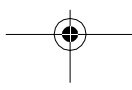
### Mounting the Base Directly on the Wall

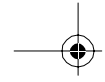
You need two wood screws (not supplied) for this mounting method.

1. Drill two holes  $3^{15}/_{16}$  inches apart. Then thread a screw into each hole, letting the heads extend  $1/4$  inch from the wall.

4. Attach the bracket to the bottom of the base by inserting the tabs on the bracket into the slots on the base, then sliding the bracket up.

5. Insert the supplied AC adapter's barrel plug into the **12VDC** jack on the back of the base. Then plug the adapter into a standard AC outlet.



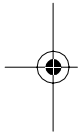


6. Plug the modular cord into a modular phone line jack.

## CHARGING THE BATTERY

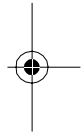
Before you use your phone for the first time or when you install a new battery, make sure **RINGER ON/OFF** on the handset is set to **OFF**, then charge the battery for about 12-15 hours by placing the handset on the cradle so the **POWER** and **CHARGE** indicators on the base light.

7. Align the keyhole slots with the mounting screws and slide the base downward to secure it.



8. Carefully place the handset in the cradle at the top of the base and make sure it is secure.
9. Fully extend the base's antenna and place it in a vertical position.

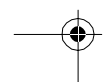
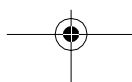
The phone charges whenever the handset is on the base. You can recharge the battery at any time, but be sure to recharge it when **BATT LOW** lights on the handset.



**Note:** If you later want to mount the base on a desktop, press **PUSH** on the bracket and pull it off to remove it from the base's bottom.

### Notes:

- Continuing to use the battery after **BATT LOW** lights could shorten overall battery life.





- The first time you use your phone after installing a new battery, the handset might not work or might sound an error tone when you press **TALK**. This might also occur when you recharge a battery that has been completely discharged.

If this happens, be sure **RINGER ON/OFF** is set to **ON**. Then return the handset to the cradle for 5 seconds. This resets the security access code.

- If the **CHARGE** indicator does not light when you place the handset on the cradle, be sure the battery is connected to the pins inside the battery compartment, and the AC adapter is securely connected to the base.

Also, check the charging contacts on the handset and base. If the contacts are dirty or tarnished, gently clean them with a pencil eraser.

- About once a month, fully discharge the battery. Keep the handset off the cradle until **BATT LOW** lights. Then return the handset to the cradle and recharge the battery for about 10 hours.

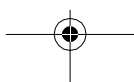
## SETTING THE DIALING MODE

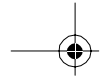
Set **TONE/PULSE** on the base for the type of service you have. If you are not sure which type you have, do this test.

1. Set **TONE/PULSE** to **TONE**.
2. Lift the handset, press **TALK**, and listen for a dial tone.
3. Press any number other than **0**.

If the dial tone stops, you have touch-tone service. Leave **TONE/PULSE** set to **TONE**.

If the dial tone continues, you have pulse (rotary) service. Set **TONE/PULSE** to **PULSE**.



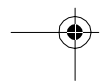
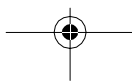
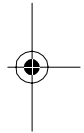
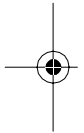


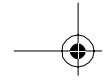
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## SETTING THE RINGER ON/OFF

To turn off the ringer, set **RINGER ON/OFF** on the handset to **OFF**. To turn on the ringer, set it to **ON**.

**Note:** With the handset's ringer off, you can still make and receive calls using the cordless phone. Telephones on the same line still ring when there is an incoming call, the handset's **IN USE** indicator flashes, and the **POWER** and **CHARGE** indicators on the base flash until you answer the call.





## OPERATION

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Before using your cordless telephone, you must connect and charge its battery (see "Connecting the Battery" and "Charging the Battery"). For the best operation, make sure the base's antenna is in a vertical position.

### MAKING/ANSWERING A CALL

You can use your cordless telephone in two ways: at the base or away from the base.

#### Using the Handset at the Base

Place the handset in the cradle. The base rings whether **RINGER ON/OFF** on the handset is set to **ON** or **OFF**.

To answer a call, just lift the handset from the base. The phone searches for a channel with minimal interference (you might notice a pause).

To make a call, lift the handset from the base and press **TALK** so the IN USE indicator lights.

To disconnect a call, replace the handset on the base.

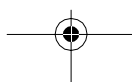
**Note:** To conserve battery power and leave the phone line available, press **TALK** so the IN USE indicator turns off when you are not making or answering a call.

#### Using the Handset Away from the Base

To use the handset away from the base, press **TALK** to make or answer a call. The IN USE indicator on the handset lights.

To disconnect a call, press **TALK** so the IN USE indicator on the handset turns off.

**Note:** You can make or answer a call on another phone on the same phone line, even if the handset is away from the base.



## REDUCING INTERFERENCE

The ET-546 automatically selects the channel with the best performance and least interference. If you hear interference between the handset and the base during a call, press **CHANNEL** to switch to the next channel (25 in all) until you receive the best reception.

## REDIAL

To quickly redial the last number dialed, simply lift the handset from the cradle and press **TALK** (or, if away from the base, simply press **TALK**) so the IN USE indicator lights. Then press **REDIAL**.

### Notes:

- We recommend you not use **REDIAL** to dial numbers that include a **TONE** entry (see "Using Tone Services on a Pulse Line").
- The redial memory does not store a **FLASH** entry or any digits entered after you press **FLASH**.

## USING FLASH

Use **FLASH** on the handset to perform the switchhook operation for special services, such as call waiting.

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

### Notes:

- If you do not have a special phone service, pressing **FLASH** might disconnect the current call.
- The redial memory does not store a **FLASH** entry or any digits entered after you press **FLASH**.



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## 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. Set **TONE/PULSE** on the base to **PULSE**.

2. Dial the service's main number.
3. When the service answers, press **TONE**. Then dial the additional numbers. The phone sends these numbers as tone signals.
4. When you complete the call, place the handset on the cradle or press **TALK** to disconnect the call. The phone automatically resets to the pulse mode.

**Note:** We recommend you not use **RE-DIAL** to dial numbers that include a **TONE** entry.

## USING PAGE

**PAGE** lets you locate the handset if you misplaced it, or alert the person holding the handset. The handset sounds four beeps when someone presses **PAGE** on the base. The **IN USE** indicator and the selected channel appear on the base's display.

**Note:** The handset will not beep during a call, or if the ringer is off.

## MEMORY DIALING

You can store up to 10 phone numbers for single-button dialing. Each stored number can be up to 16 digits long.

### Notes:

- If **TONE/PULSE** is set to **PULSE** and you want to use tone dialing for a memory number, you must store the tone entry along with the number.
- To keep your accounts secure, we recommend you *not* store your personal access code for services such as bank-by-phone in a memory location.

## Storing a Number in Memory

1. If necessary, press **TALK** on the handset so the IN USE indicator turns off.
2. Press **MEMORY**.

**Note:** While you are storing a number in memory, if you do not press any button within 10 seconds, you must repeat Step 2 and try again.

3. Dial the number you want to store.

4. Press **MEMORY** again.
5. Press the memory location number (0 to 9) where you want to store the number. A long beep sounds. The phone number is now stored in memory.
6. Remove the plastic covering from the handset's index card with a small pointed object, such as the end of a straightened paper clip. Write the person's or company's name and memory location number on the card in pencil (in case you want to change it later).
7. Repeat Steps 2-6 to store and record other telephone numbers.

### Notes:

- 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 store the number.
- 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. If your phone is connected to one of these systems, you might want to enter a pause at the appropriate point when you store a phone number in memory.

When storing a number, press **PAUSE** to enter a 3-second pause. For a longer pause, press **PAUSE** again (each press enters a 3-second pause).

## 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 **MEMORY** and the number for the location where the additional information is stored.

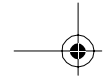
## Testing Stored Emergency Numbers

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.

## Dialing a Stored Number

Follow these steps to dial a number stored in memory.

- Lift the handset from the cradle and press **TALK** so the IN USE indicator lights.
- When you hear a dial tone, press **MEMORY** and then press the memory location number where the phone number is stored. The phone dials the stored number.

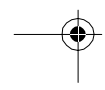
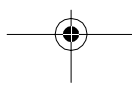
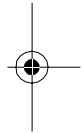
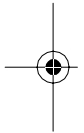


## TROUBLESHOOTING



We do not expect you to have any problems with your telephone, but if you do, these suggestions might help. If you still have problems, check other phones on the same line to see if they work properly. If they do and the problem does not seem to be with your phone service, take your phone to your local Radio Shack store for assistance.

Problem	Solution
The handset does not work.	<ul style="list-style-type: none"> <li>• Press <b>TALK</b> on the handset.</li> <li>• Move the handset closer to the base.</li> <li>• Be sure the phone line cord and AC adapter are correctly and securely connected.</li> <li>• Be sure the battery is connected and charged.</li> <li>• Place the base's antenna in a vertical position.</li> <li>• Return the handset to the cradle for 5 seconds, and then try again.</li> <li>• Check the handset and base's charging contacts. If they are dirty, clean them with a pencil eraser.</li> </ul>
Volume drops or you hear unusual sounds on the line.	Someone has picked up another phone on the same line. Hang up the other phone.
Call is noisy.	<ul style="list-style-type: none"> <li>• Press <b>CHANNEL</b> to switch to another channel.</li> <li>• Do not mount the base near appliances or large metal objects.</li> <li>• Hang up and redial the number.</li> <li>• Keep the handset away from interference sources such as computers; remote control toys; wireless microphones, alarm systems, intercoms and room monitors; fluorescent lights; and electrical appliances. If the interference is severe, turn off the interfering device.</li> <li>• Place the base's antenna in a vertical position.</li> </ul>



<b>Problem</b>	<b>Solution</b>
The handset's range decreases.	<ul style="list-style-type: none"><li>• Place the base's antenna in a vertical position.</li><li>• Be sure the antenna is not touching a metal surface.</li><li>• Return the handset to the cradle, and recharge the battery.</li></ul>
Receiver sound flutters or fades.	<ul style="list-style-type: none"><li>• Be sure the battery is connected and charged.</li><li>• Place the base's antenna in a vertical position.</li><li>• Move the handset closer to the base.</li></ul>
Can make calls, but telephone does not ring.	<ul style="list-style-type: none"><li>• Handset's <b>RINGER</b> must be set to <b>ON</b> to ring.</li><li>• Telephone company might be using unusual ringing methods. Your telephone is designed for standard straight line bridged ringing.</li></ul>
Can receive calls, but cannot make calls.	Set <b>TONE/PULSE</b> correctly for the type of service you have.
You cannot answer/make a call and the handset sounds an error tone when you lift it from the base or press <b>TALK</b> .	The phone might be receiving interference from another RF signal; or, if the handset is away from the base during a long period of AC power failure, the phone might lose its access protection code. Return the handset to the base for a few seconds.

## CARE AND MAINTENANCE

Your Radio Shack ET-546 25-Channel Cordless Telephone with 10-Number Memory is an example of superior design and craftsmanship. The following suggestions will help you care for your phones so you can enjoy it for years.



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



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



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.



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 your phone.

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 Radio Shack 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

If you follow the instructions in "Charging the Battery," the supplied battery should last about one year. When the battery loses its ability to fully charge, order a 3.6 volt, 300 milliamp battery with a connector that fits the connector in the battery compartment. You can order a replacement battery through your local Radio Shack store.

Install the new battery as described below, then charge the battery (see "Charging the Battery").

1. Slide off the battery compartment cover on the back of the handset as shown.
2. Gently pull on the battery wires to disconnect the plug, then remove the battery.
3. Insert a fresh battery and connect its plug to the pins inside the battery compartment.
4. Replace the cover.

**Caution:** Your telephone contains a rechargeable nickel cadmium battery. At the end of the battery'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 curb-side collection, drop off boxes at retailers, 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 the phone. The phone company notifies you of these changes in advance, so you can take the necessary steps to prevent interruption of your phone service.



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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:

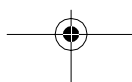
- Moving your phone away from the receiver
- Connecting your phone to an AC outlet that is on a different electrical circuit from the receiver
- Contacting your local Radio Shack store for help

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

## LIGHTNING

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

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

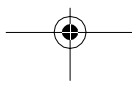
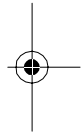
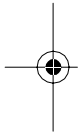


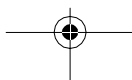
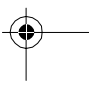
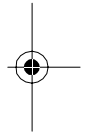


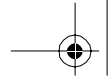
# NOTES

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### RADIO SHACK LIMITED WARRANTY

This telephone product is warranted against manufacturing defects in material and workmanship for one (1) year from the date of purchase from Radio Shack company owned stores and authorized Radio Shack franchisees and dealers. Within this period **bring your Radio Shack sales slip** as proof-of-purchase date to any Radio Shack store.

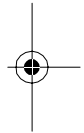
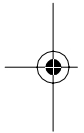
This warranty does not cover damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning or other incidence of excess voltage, or any repairs other than those provided by a Radio Shack Authorized Service Facility, or transportation costs. **Radio Shack is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use or performance of the product or other damages with respect to loss of property, loss of revenue or profit, or costs of removal, installation or reinstallation.**

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. Some states do not allow the limitation or exclusion of incidental or consequential damages and some states do not allow limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser. There will be charges rendered for repairs to the product made after the expiration of the aforesaid one (1) year warranty period.

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

*We Service What We Sell*

9/94



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Fort Worth, Texas 76102

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