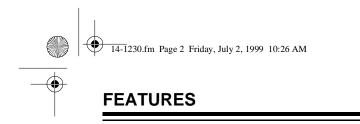


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Your Optimus SCP-87 Digital AM/FM Stereo Cassette Player delivers excellent stereo sound through your headphones or amplified speaker system. Because the SCP-87 is portable, you can listen to cassette tapes or the AM/FM radio indoors or out.

**Important:** To listen to your SCP-87, you need a pair of headphones or amplified speakers (not supplied) with a <sup>1</sup>/<sub>8</sub>-inch mini-plug. Your local RadioShack store sells many headphones and speakers.

This player's features include:

**PLL (Phase-Locked Loop) Tuning** — gives you precise tuning and drift-free reception.

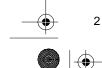
**Automatic Reverse** — automatically changes the tape direction at the end of a tape side so you can continuously play both sides of a cassette tape.

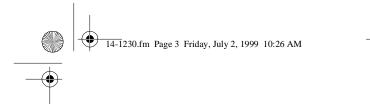
**Tape Direction Control** — lets you change the tape's direction to play the other side at any time without having to eject the tape and turn it over.

**Display** — shows the currently tuned station.

© 1997 Tandy Corporation. All Rights Reserved. RadioShack and Optimus are registered trademarks used by Tandy Corporation.

Dolby B noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol □□ are trademarks of Dolby Laboratories Licensing Corporation.





**AM/FM Radio with 18-Station Memory** — lets you store up to 18 of your favorite radio stations for quick tuning.

**Seek Tuning** — searches forward or backward to the next strong station in the selected band so you can quickly find a new station.

**Preset Equalization** — lets you select one of four preset sound characteristics (classic, pop, rock, or jazz).

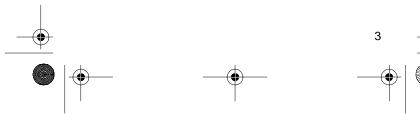
**Dolby B Noise Reduction** — reduces background and tape noise to improve the sound of your tapes.

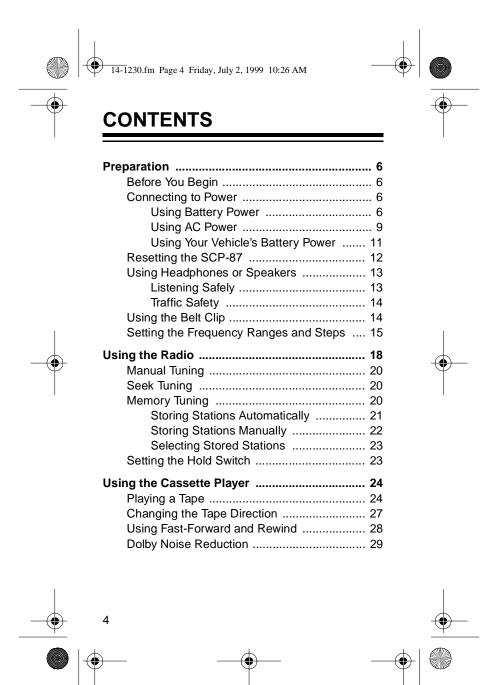
**Tape Selector** — lets you select the proper equalization for normal or CrO<sub>2</sub>/metal cassette tapes.

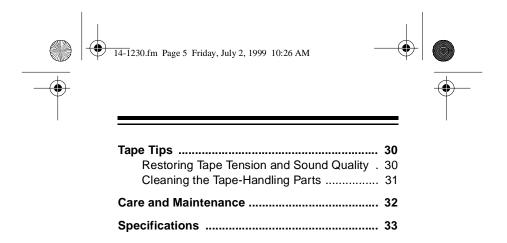
**Three Power Choices** — let you power your SCP-87 from internal batteries (not supplied), standard AC power (with an optional AC adapter), or your vehicle's battery (with an optional DC adapter) so you can listen to music almost anywhere.

**Belt Clip** — lets you attach the SCP-87 to your belt for hands-free carrying when you are on the go.

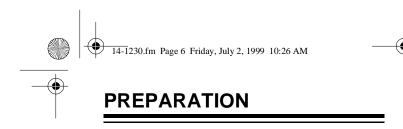
Take a few minutes to read this manual so you can enjoy all the features of your SCP-87.











## **BEFORE YOU BEGIN**

To protect the playback head during shipment, a protective sleeve is attached. Remove it before you use the SCP-87's cassette player.



# **CONNECTING TO POWER**

You can power your SCP-87 from:

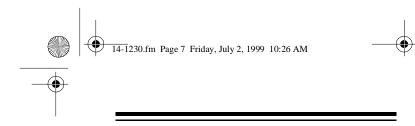
- Internal batteries
- AC power (using an AC adapter)
- Your vehicle's battery (using a DC adapter)

### **Using Battery Power**

The SCP-87 can use two AA batteries for power. For the best performance and longest life, we recommend alkaline batteries, such as RadioShack Cat. No. 23-557.

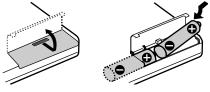
You can also use rechargeable nickel-cadmium batteries (Cat. No. 23-125). These batteries (and a battery charger, Cat. No. 23-133) are available at your local RadioShack store.



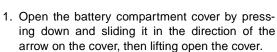


**Caution:** Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

Follow these steps to install batteries.



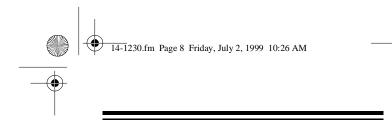
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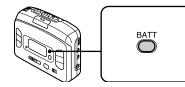
**Caution:** The battery compartment cover is hinged. Do not try to remove it.

- Insert the batteries into the compartment as indicated by the polarity symbols (+ and –) marked outside the compartment.
- 3. Close the cover.





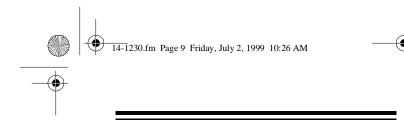
If the BATT indicator becomes dim during operation or does not light when you turn on the SCP-87, replace (alkaline) or recharge (nickel-cadmium) both batteries.



**Caution:** Always dispose of old batteries promptly and properly.

**Important:** This product is capable of using rechargeable nickel-cadmium batteries. At the end of the batteries' useful life, they 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.





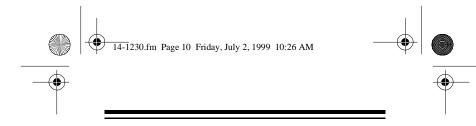
#### **Using AC Power**

To power the SCP-87 from a standard AC outlet, you need an AC adapter, such as Cat. No. 273-1654.

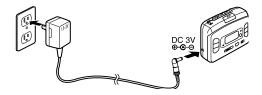
#### **Cautions:**

- You must use an AC adapter that supplies 3 volts DC power and delivers at least 300 milliamps. Its center tip must be set to negative, and its plug must properly fit the SCP-87's DC 3V jack. The recommended adapter meets these requirements. Using an adapter that does not meet these requirements could damage the SCP-87 or the adapter.
- Be sure you connect the adapter to the SCP-87 before you plug it into the AC outlet and that you unplug the adapter from the AC outlet before you unplug it from the SCP-87, to prevent damage to the SCP-87 or the adapter.





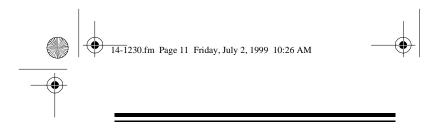
Follow these steps to connect the SCP-87 to AC power.



- 1. Set the adapter's voltage switch to 3V.
- 2. Insert the adapter's 3.4 mm outer diameter/1.3 mm inner diameter tip into the adapter's cord, so it reads –TIP.
- 3. Insert the plug into the SCP-87's DC 3V jack.
- 4. Plug the adapter into a standard AC outlet.

**Note:** Connecting the AC adapter automatically disconnects internal batteries.





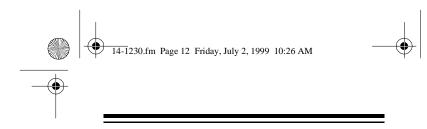
#### **Using Your Vehicle's Battery Power**

To power the SCP-87 from your vehicle's battery, you need a DC adapter, such as Cat. No. 270-1560.

#### **Cautions:**

- You must use a DC adapter that supplies 3 volts DC power and delivers at least 300 milliamps. Its center tip must be set to negative, and its plug must properly fit the SCP-87's DC 3V jack. The recommended adapter meets these requirements. Using an adapter that does not meet these requirements could seriously damage the SCP-87.
- Be sure you plug the adapter into the SCP-87 before you plug it into the cigarette-lighter socket, and that you unplug the adapter from the cigarette-lighter socket before you unplug it from the SCP-87, to prevent damage to the SCP-87 or the adapter.





Follow these steps to power the SCP-87 from your vehicle's battery.



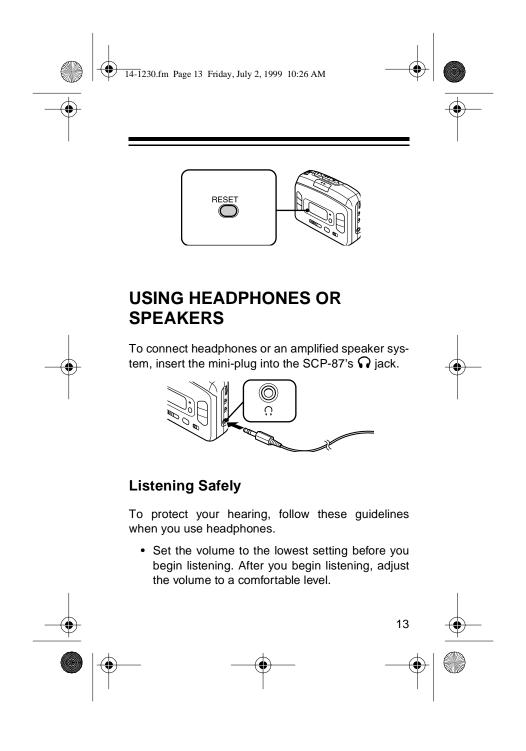
- 1. Set the adapter's voltage switch to 3V.
- 2. Insert the adapter's 3.4 mm outer diameter/1.3 mm inner diameter tip into the adapter's cord, so it reads –TIP.
- 3. Insert the plug into the SCP-87's DC 3V jack.
- 4. Plug the other end of the adapter into the vehicle's cigarette-lighter socket.

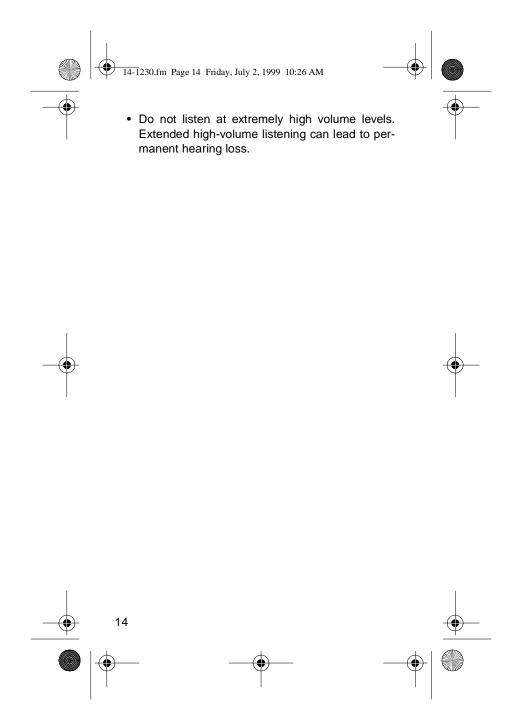
## **RESETTING THE SCP-87**

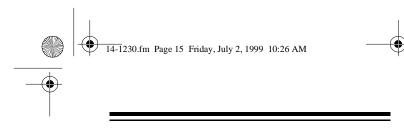
If the SCP-87's display locks up or does not work properly after you connect power, reset the SCP-87. To reset the SCP-87, press **RESET** using a pointed object, such as a ball-point pen.

**Caution:** Resetting the SCP-87 clears all the settings you have stored. Reset the SCP-87 only when you are sure it is not working properly.









 Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

### **Traffic Safety**

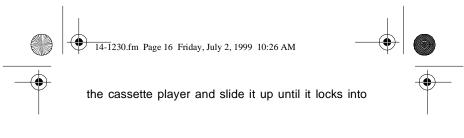
Do not wear headphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and can be illegal in some areas.

Even though some headphones are designed to let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

## USING THE BELT CLIP

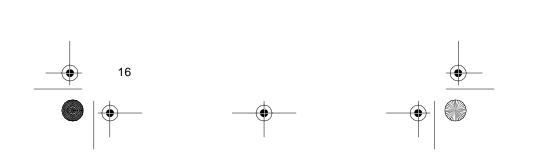
The belt clip lets you keep your hands free while you listen to the SCP-87. To attach the belt clip to the SCP-87, slide the belt clip's latches into the slots on

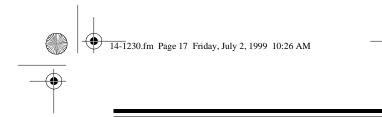




place.







To remove the belt clip from the SCP-87, push in on **PUSH RELEASE**, slide the belt clip down, then lift it off.

## SETTING THE FREQUENCY RANGES AND STEPS

The SCP-87 is set to tune frequencies in steps (increments) of 10 kHz (AM) and 0.2 MHz (FM) as used in the United States.

In Europe and some other countries, frequency ranges and steps are not the same as those in the United States. For example:

In North and South America: AM: 530–1,710 kHz (10 kHz increment) FM: 87.5–108.1 MHz (0.2 MHz increment)

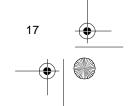
**Note:** Actual FM broadcast frequencies are assigned between 88 and 108 MHz.

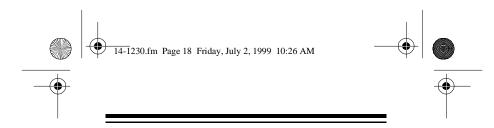
In Europe and other countries: AM: 531–1,602 kHz (9 kHz increment) FM: 87.5–108 MHz (0.05 MHz increment)

#### In Japan:

AM: 531-1,629 kHz (9 kHz increment) FM: 76-108 MHz (0.1 MHz increment)



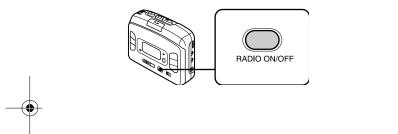




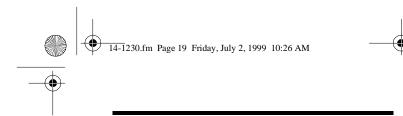
**Caution:** Changing the frequency ranges and steps erases all stored stations.

To listen to the radio in another country, follow these steps to change the frequency ranges and steps.

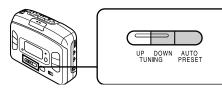
1. Press RADIO ON/OFF to turn on the radio.



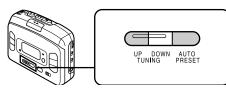




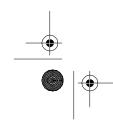
 To change to Europe's and other countries' frequencies and steps, hold down AUTO PRESET and TUNING DOWN at the same time for about 7 seconds. EU appears briefly on the display and a beep sounds, then the display shows the lowest frequency in the AM band.

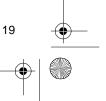


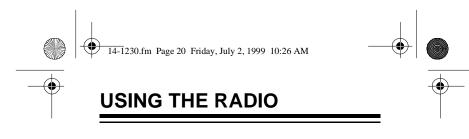
To change to Japan's frequencies and steps, hold down **AUTO PRESET** and **TUNING UP** at the same time for about 7 seconds. **JP** appears briefly on the display and a beep sounds, then the display shows the lowest frequency in the AM band.



To return to the local (U.S.) setting, hold down **TUNING DOWN** and **UP** at the same time for about 7 seconds. **US** appears briefly on the display and a beep sounds, then the display shows the lowest frequency in the AM band.





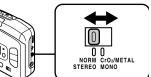


 Press RADIO ON/OFF until the display shows the desired band (AM, FM1, or FM2). The BATT indicator lights.



2. Set **STEREO/MONO** to **STEREO** for stereo sound on FM stations, or to **MONO** for monaural sound.

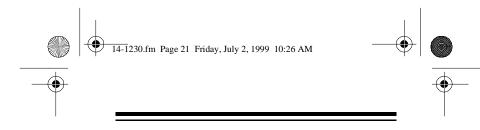




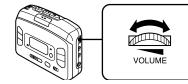
#### Notes:

- For the best FM reception, fully uncoil the headphones' or speaker's cord.
- The AM antenna is built-in. Move the SCP-87 to the best position for AM reception.
- To improve reception for weak FM stereo stations, set **STEREO/MONO** to **MONO**. The sound will be monaural, but reception should improve.

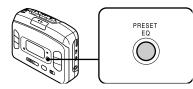




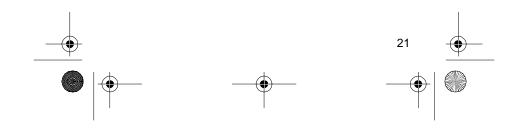
- 3. Tune to the desired station using manual, seek, or memory tuning (see "Manual Tuning," "Seek Tuning," or "Memory Tuning" on Page 22).
- 4. Adjust VOLUME to the desired listening level.

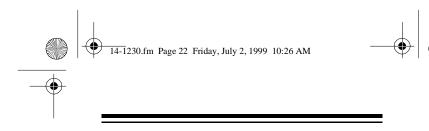


 Repeatedly press PRESET EQ (preset equalizer) to select classic, pop, rock, or jazz sound characteristics. A bar appears above the selected sound.



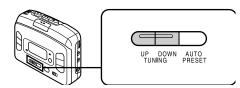
 To turn off the radio, press RADIO ON/OFF until the display clears and the BATT indicator turns off.





# MANUAL TUNING

Press **TUNING UP** or **DOWN** to tune up or down the band.





# SEEK TUNING

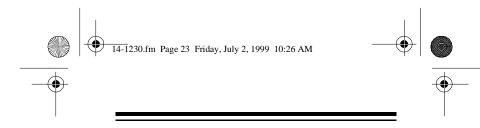
Hold down **TUNING UP** or **DOWN** for about 1–2 seconds. The SCP-87 automatically searches up or down the band and stops when it finds the next strong station.

### **MEMORY TUNING**

You can store up to 6 AM and 12 FM stations in memory, automatically or manually.

**Note:** You can assign one station to each preset number. When you assign another frequency to the same preset number, the new frequency replaces the old one.



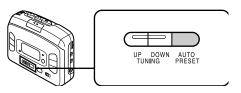


### **Storing Stations Automatically**

You can set the SCP-87 to search the selected band and store the first six stations it finds into memory locations 1-6.

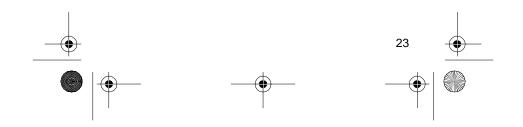
- 1. Press RADIO ON/OFF until the desired band appears.
- 2. Hold down **AUTO PRESET** for about 1–2 seconds. The SCP-87 starts searching.

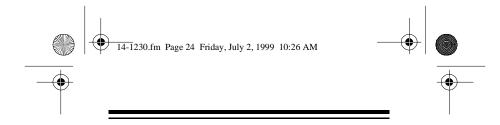




When the SCP-87 finds a station, it plays the station for about 3 seconds then stores it in memory. Then the SCP-87 continues searching. After storing six stations in that band, the SCP-87 plays the last station stored.

**Note:** If you do not want to store a particular station, press **AUTO PRESET** while the station is playing. The SCP-87 automatically tunes and stores the next station.





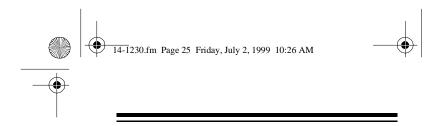
#### **Storing Stations Manually**

- 1. Press **RADIO ON/OFF** until the desired band appears.
- 2. Press **TUNING UP** or **DOWN** to tune to the station you want to store.
- Hold down one of the preset number buttons (1–6) for 1–2 seconds. The number and PRESET appear on the display to indicate that the station is being stored in memory. PRESET disappears, but the number remains on the display.



To replace a station you stored, simply store a new station in that memory location.





### **Selecting Stored Stations**

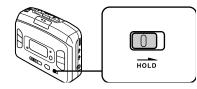
- 1. Repeatedly press **RADIO ON/OFF** to select the desired band.
- 2. Press one of the preset number buttons (1–6) to select a station.

**Note:** Do not hold down the preset number button for more than one second. Otherwise, another station will be stored in that memory location.



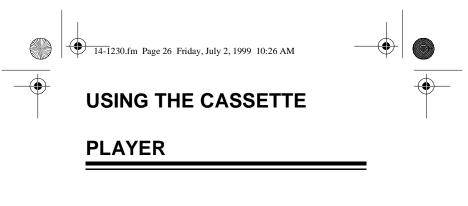
# SETTING THE HOLD SWITCH

The **HOLD** switch locks the radio control keys so you cannot accidentally change the radio's settings. To lock the keys, slide **HOLD** in the direction of the arrow. To unlock the keys, slide **HOLD** to the left.



**Note:** The **HOLD** switch also locks **PRESET EQ** during radio and cassette operation.





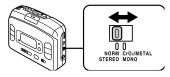
# **PLAYING A TAPE**

 Gently pull open the cassette compartment door and insert a pre-recorded cassette into the guides with the exposed tape edge facing out. Then close the door.

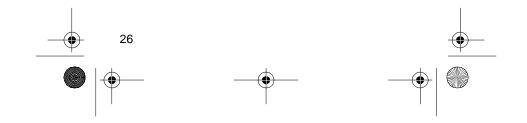


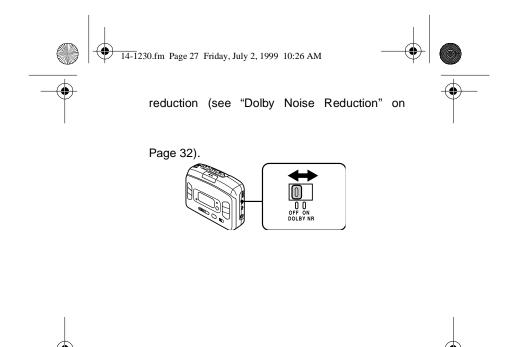


 Set the tape select switch to NORM for normal bias cassette tapes or to CrO<sub>2</sub>/METAL for chrome or metal cassette tapes.

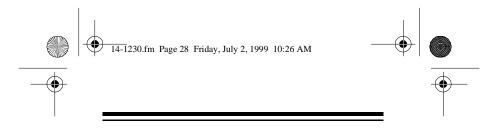


3. Set **DOLBY NR** to **ON** if you are playing a cassette tape that was recorded with Dolby B noise

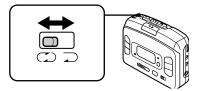








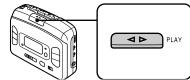
4. Set the automatic reverse switch to the desired position.



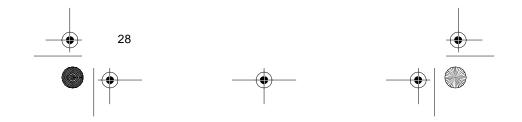
Continuous Playback ( $\frown$   $\frown$ ) — alternately plays each side of the tape until you press **STOP**.

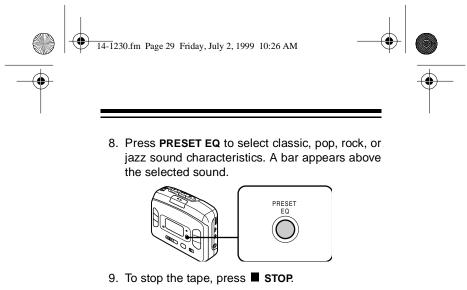
One-Time Playback ( $\rightarrow$ ) — plays both sides of the tape, then stops.

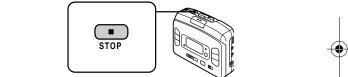
- 5. Make sure the radio is turned off.
- 6. Press ◀ ▶ PLAY. The BATT indicator lights and TAPE appears on the display. The tape plays.



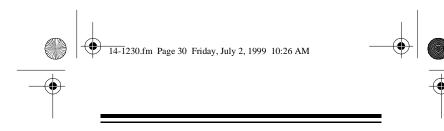
7. Adjust VOLUME to the desired listening level.





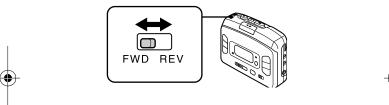




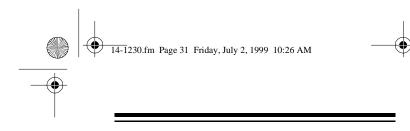


# CHANGING THE TAPE DIRECTION

You can change the tape's direction to play the other side using the **FWD/REV** switch. To listen to the tape's forward side (facing out), set the switch to **FWD**. To listen to the tape's reverse side (facing in), set the switch to **REV**.

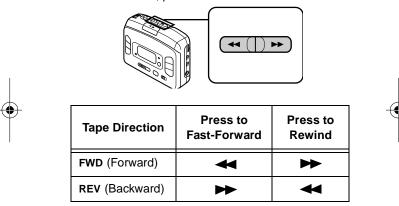




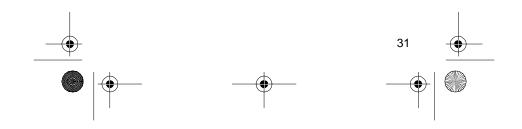


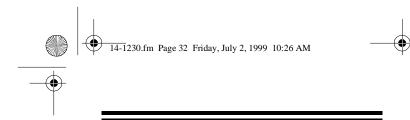
# USING FAST-FORWARD AND REWIND

When the tape is stopped, press  $\blacktriangleleft$  or  $\blacktriangleright \flat$  to rewind or fast-forward it. To stop the tape before it reaches the end, press  $\blacksquare$  **STOP**.



**Note:** To protect the tape after the tape has fully wound to either end, press  $\blacksquare$  **STOP** to release the  $\blacktriangleleft$  or **>>** button.

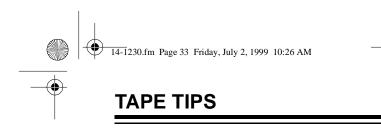




# **DOLBY NOISE REDUCTION**

Your cassette player uses the Dolby B Noise-Reduction system to reduce background noise or tape hiss on your tapes. When a Dolby-encoded tape is recorded, the Dolby circuit listens to the program material to find soft passages where you might later be able to hear the tape noise. The Dolby NR system increases the recording level during these passages. When you play the tape, the circuit reduces the volume of these passages to their original levels and reduces the level of tape hiss to as little as one-third of the usual noise level.





The following tips can help you get the best performance and the longest life from your SCP-87.

**Note:** For the best performance, use only regular length (60- or 90-minute) cassette tapes. We do not recommend long-playing cassette tapes, such as C-120s, because they are extremely thin and can tangle easily.

# RESTORING TAPE TENSION AND SOUND QUALITY

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.

**Caution:** Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.





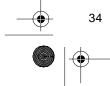
# CLEANING THE TAPE-HANDLING PARTS

Dirt, dust, or particles of the tape's coating can accumulate on the tape heads and other parts the tape touches. This can greatly reduce the performance of the SCP-87. To protect the SCP-87, clean the tapehandling parts after about every 20 hours of tape player operation. Your local RadioShack store sells a complete line of cassette deck cleaning supplies.

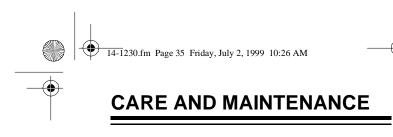
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- 1. Remove the batteries and disconnect any other power source.
- 2. Open the cassette compartment cover.
- 3. Press ◀ ► PLAY to expose the tape-handling parts.
- 4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the playback head, pinch rollers, tape guides, and capstans.



5. When you finish cleaning, press ■ **STOP** and close the cassette compartment cover. Then reconnect power.







Your Optimus SCP-87 Digital AM/FM Stereo Cassette Player is an example of superior design and craftsmanship. The following suggestions will help you care for the SCP-87 so you can enjoy it for years.

- Keep the SCP-87 dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.
- Handle the SCP-87 gently and carefully. Dropping it can damage circuit boards and cases and can cause the system to work improperly.
- Use and store the SCP-87 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.
- Keep the SCP-87 away from dust and dirt, which can cause premature wear of parts.
- Wipe the SCP-87 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the SCP-87.

Modifying or tampering with the SCP-87's internal components can cause a malfunction and might invalidate the SCP-87's warranty and void your FCC authorization to operate it. If your SCP-87 is not performing as it should, take it to your local RadioShack store for assistance.





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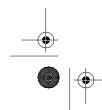
# **POWER REQUIREMENTS**

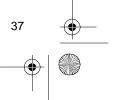
Batteries	2 AA Batteries
AC	120 Volts with AC Adapter (Cat. No. 273-1654)
DC 12	Volts DC with DC Adapter (Cat. No. 270-1560)
Typical Radio Playing Time with AA Alkaline Batteries	
Typical Cassette Playing Ti with AA Alkaline Batteries	

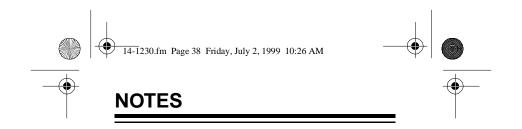
# GENERAL

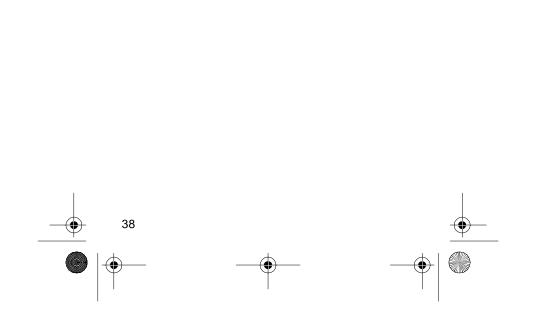
Power Output12	mW/Channel at 32 ohms
Phones Output Impedance	32 ohms
Dimensions (HWD)	3 <sup>1</sup> /2 x 4 <sup>5</sup> /8 x 1 <sup>9</sup> /16 Inches (88.1 x 115.1 x 39.2 mm)
Weight	7.6 oz (218 g)

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









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