



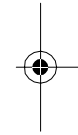
Cat. No. 14-1227

OWNER'S MANUAL

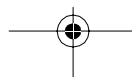
Please read before using this equipment.

SCP-86

AM/FM Stereo Cassette Player



OPTIMUS®



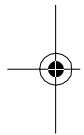


FEATURES



Your Optimus SCP-86 AM/FM Stereo Cassette Player delivers high-fidelity stereo sound through your headphones or amplified speaker system. Because the SCP-86 is portable, you can listen to cassette tapes or the AM/FM radio indoors or out.

Important: To listen to your SCP-86, you need a pair of headphones or amplified speakers (not supplied) with a 1/8-inch mini-plug. Your local RadioShack store sells a wide variety of headphones and speakers.



Its features include:



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 at any time without having to eject the tape and turn it over.

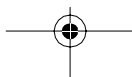
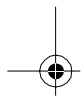
Dolby B Noise Reduction — reduces background and tape noise to improve the sound of your tapes.

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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.

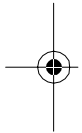




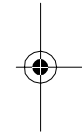
Extended Bass — lets you get a powerful, heavy bass sound.

Tape Selector — lets you select the proper equalization for normal or CrO₂/metal cassette tapes.

Three Power Sources — let you power your SCP-86 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-86 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-86.





CONTENTS



Preparation	5
Connecting to Power	5
Using Battery Power	5
Using AC Power	7
Using Vehicle Battery Power	9
Using Headphones or Speakers	11
Listening Safely	11
Traffic Safety	12
Using the Belt Clip	12
Operation	13
Playing the Radio	13
Playing a Cassette Tape	14
Using Fast Forward and Rewind	17
Changing the Tape Direction	18
Dolby Noise Reduction	18
Tape Tips	19
Restoring Tape Tension and Sound Quality ..	19
Cleaning the Tape-Handling Parts	20
Care and Maintenance	21
Specifications	22





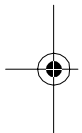
PREPARATION

CONNECTING TO POWER

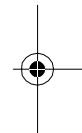
You can power your SCP-86 from:

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

Using Battery Power

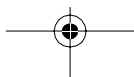


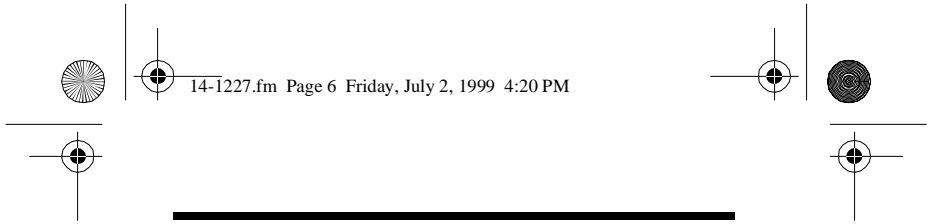
To power the SCP-86 from internal batteries, you need two AA batteries. For the best performance and longest life, we recommend alkaline batteries, such as RadioShack Cat. No. 23-557.



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.

1. Open the battery compartment cover by pressing down and sliding it in the direction of the arrow on the cover, then lifting open the cover.

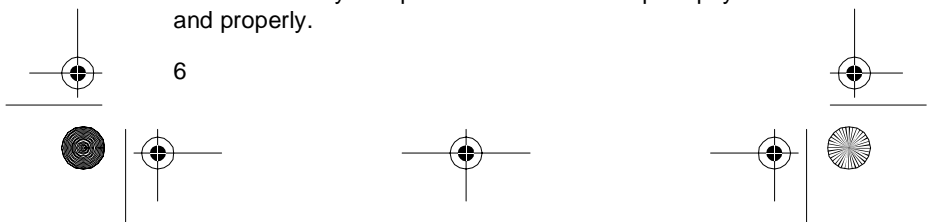
Caution: The battery compartment cover is hinged. Do not try to remove it.

2. Insert the batteries into the compartment as indicated by the polarity symbols (+ and -) marked outside the battery compartment.

3. Close the cover.

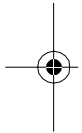
If the OPE/BATT indicator becomes dim during operation or does not light when you turn on the SCP-86, replace (alkaline) or recharge (nickel-cadmium) both batteries.

Caution: Always dispose of old batteries promptly and properly.

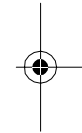




Important: This product is capable of using rechargeable nickel-cadmium batteries. At the end of the batteries' useful life, they must be recycled or disposed of properly. Contact your local, county, or state hazardous waste management authorities for information on recycling or disposal programs in 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.



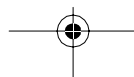
Using AC Power



To power the SCP-86 from a standard AC outlet, you need an AC adapter such as Cat. No. 273-1654.

Cautions:

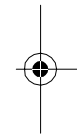
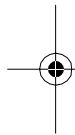
- You must use an AC adapter that supplies 3 volts DC power and delivers at least 200 milliamps. Its center tip must be set to negative, and its plug must properly fit the SCP-86's **DC 3V** jack. The recommended adapter meets these requirements. Using an adapter that does not meet these requirements could damage the SCP-86 or the adapter.





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- Be sure you connect the adapter to the SCP-86 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-86, to prevent damage to the SCP-86 or the adapter.

Follow these steps to connect the SCP-86 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 barrel plug into the adapter's cord, with the tip set to negative.
3. Insert the plug into the SCP-86's **DC 3V** jack.
4. Plug the adapter into a standard AC outlet.

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



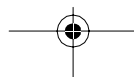
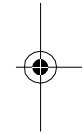
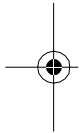


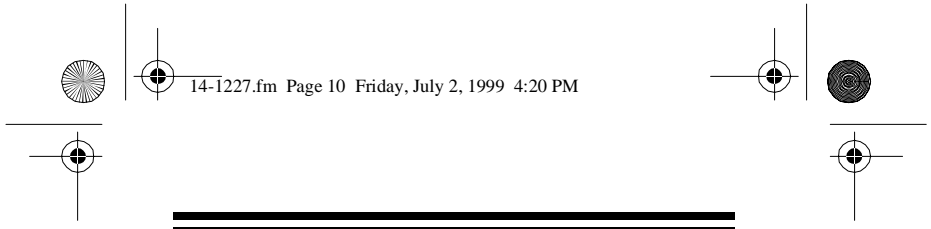
Using Vehicle Battery Power

To power the SCP-86 from your vehicle's battery, you need a DC adapter, such as Cat. No. 270-1560.


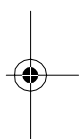
Cautions:

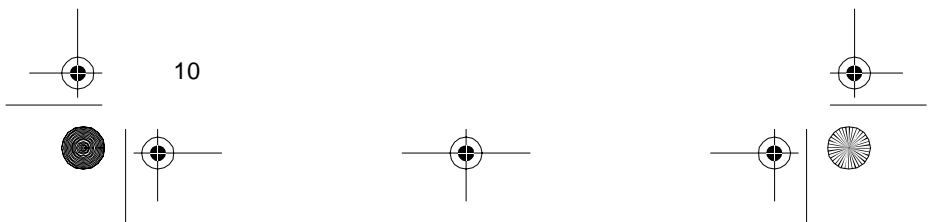
- You must use a DC adapter that supplies 3 volts DC power and delivers at least 200 milliamps. Its center tip must be set to negative, and its plug must properly fit the SCP-86's **DC 3V** jack. The recommended adapter meets these requirements. Using an adapter that does not meet these requirements could damage the SCP-86.
- Be sure you plug the adapter into the SCP-86 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-86, to prevent damage to the SCP-86 or the adapter.






Follow these steps to power the SCP-86 from your vehicle's battery.

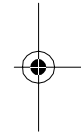
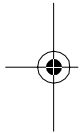
- 
1. Set the adapter's voltage switch to 3V.
 2. Insert the adapter's 3.4 mm outer diameter/1.3 mm inner diameter barrel plug into the adapter's cord, with the tip set to negative.
 3. Insert the plug into the SCP-86's DC 3V jack.
 4. Plug the other end of the adapter into the vehicle's cigarette-lighter socket.
- 





USING HEADPHONES OR SPEAKERS

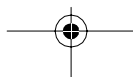
To connect headphones or an amplified speaker system, insert the mini-plug into the SCP-86's  jack.



Listening Safely

To protect your hearing, follow these guidelines when you use headphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- 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.

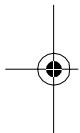




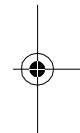
Traffic Safety

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

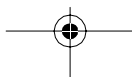


The belt clip lets you keep your hands free while you listen to the SCP-86. To attach the belt clip to the SCP-86, slide the belt clip's latches into the slots on the cassette player and slide it up until it locks into place.

To remove the belt clip from the SCP-86, push in on **PUSH RELEASE**, slide the belt clip down, then lift it off.



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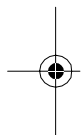




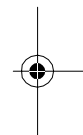
OPERATION



PLAYING THE RADIO



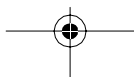
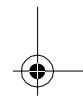
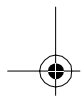
1. Set **TAPE/RADIO** to **RADIO**. The OPE/BATT indicator lights.
2. Set **FM ST/FM/AM** to the desired band. Set it to **FM ST** for stereo sound on FM stations.



Notes:

- For the best FM reception, fully uncoil the headphones' or speaker's cord.
- The AM antenna is built-in. Move the SCP-86 to improve AM reception.
- To improve reception for weak FM stereo stations, set **FM ST/FM/AM** to **FM**. The sound will be monaural, but reception should improve.

3. Rotate **TUNING** to select a radio station.
4. Adjust **VOLUME** to the desired listening level.

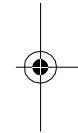
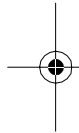




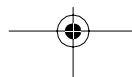
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5. To increase bass sounds, slide **E-BASS** upwards.
 6. To turn off the radio, set **TAPE/RADIO** to **TAPE**.

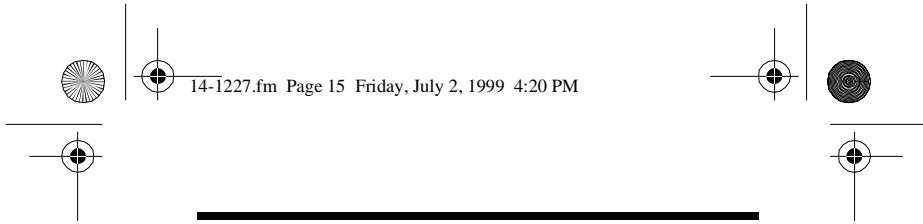
PLAYING A CASSETTE TAPE

1. 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.

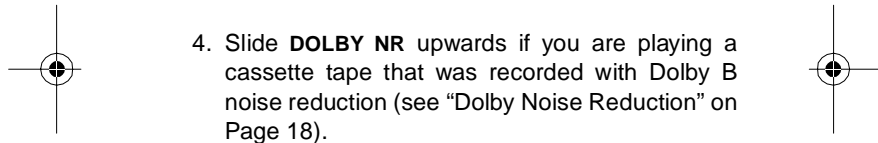


2. Set **TAPE/RADIO** to **TAPE**.

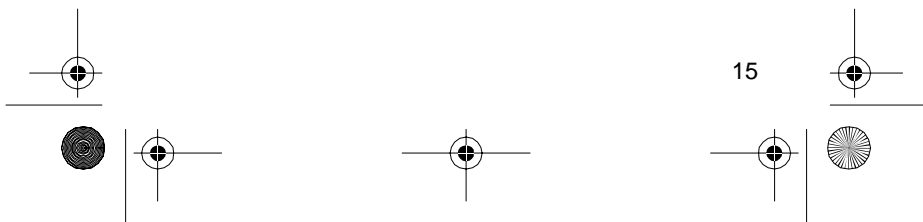


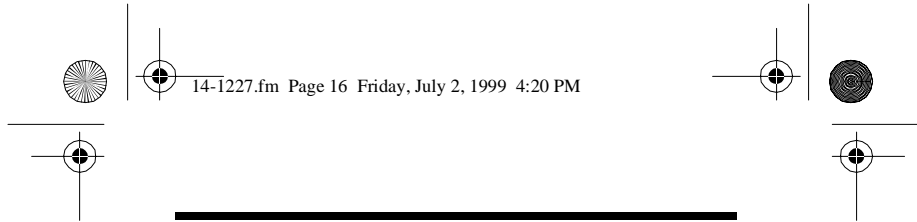


3. Set the tape select switch to **NORM** for normal bias cassette tapes or to **CrO₂/METAL** for chrome or metal cassette tapes.

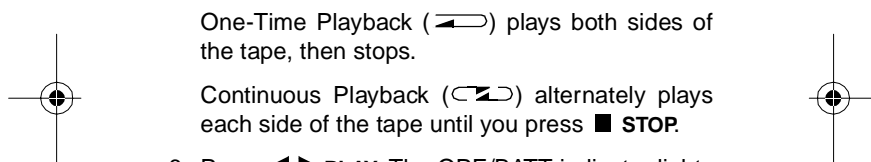


4. Slide **DOLBY NR** upwards if you are playing a cassette tape that was recorded with Dolby B noise reduction (see "Dolby Noise Reduction" on Page 18).






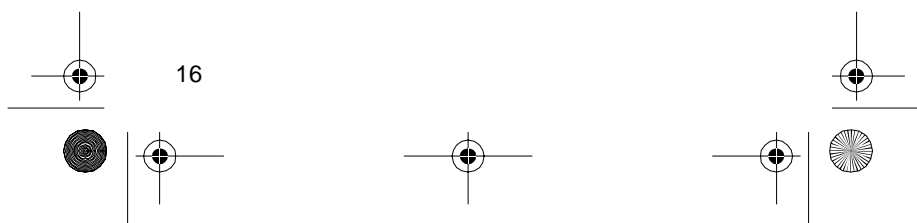
5. Set the reverse mode switch to the desired position.



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

Continuous Playback () alternately plays each side of the tape until you press ■ **STOP**.

6. Press ◀▶ **PLAY**. The OPE/BATT indicator lights and the tape begins to play.
7. Adjust **VOLUME** to the desired listening level.
8. To increase bass sound, slide **E-BASS** upwards.
9. To stop the tape, press ■ **STOP**.



USING FAST FORWARD AND REWIND

When the tape is stopped, press ◀◀ or ▶▶ to rewind or fast-forward it. To stop the tape before it reaches the end, press ■ STOP.

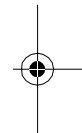
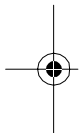
Tape Direction	Press to Fast-Forward	Press to Rewind
FWD (Forward)	▶▶	◀◀
REV (Backward)	◀◀	▶▶

Note: To protect the tape after the tape has fully wound to either end, press ■ STOP to release the ◀◀ or ▶▶ button.



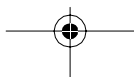
CHANGING THE TAPE DIRECTION

You can change the tape's direction 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**.



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.





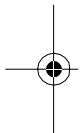
TAPE TIPS



The following tips can help you get the best performance and the longest life from your SCP-86.

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

RESTORING TAPE TENSION AND SOUND QUALITY

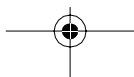
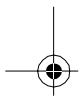


After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.



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-86. You should clean the tape-handling parts after about every 20 hours of tape player operation. Your local RadioShack store sells a complete line of cassette deck cleaning supplies.

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.

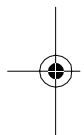


CARE AND MAINTENANCE

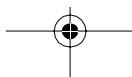
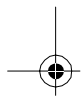


Your SCP-86 AM/FM Stereo Cassette Player is an example of superior design and craftsmanship. The following suggestions will help you care for the SCP-86 so you can enjoy it for years.

- Keep the SCP-86 dry. If it gets wet, wipe it dry immediately.
- Use only fresh batteries of the recommended size and type.
- Handle the SCP-86 gently and carefully.
- Use and store the SCP-86 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-86 away from dust and dirt.
- Wipe the SCP-86 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the SCP-86.



Modifying or tampering with the SCP-86's internal components can cause a malfunction and might invalidate the SCP-86's warranty and void your FCC authorization to use it. If your SCP-86 is not performing as it should, take it to your local RadioShack store for assistance.



SPECIFICATIONS

CASSETTE DECK

Tape Speed 17/8 ips (4.8 cm/s)
Wow and Flutter (WRMS) 0.4%
Frequency Response (at -3 dB) 63 Hz to 15 kHz
S/N Ratio 45 dB

RADIO

AM 530 to 1710 kHz
FM 88 to 108 MHz

POWER REQUIREMENT

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 50 Hours (approx.)
Typical Cassette Playing Time
with AA Alkaline Batteries 18 Hours (approx.)



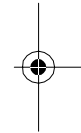
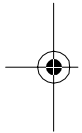
GENERAL

Power Output 15 mW/Channel at 32 ohms

Dimensions (HWD) $4\frac{3}{4} \times 3\frac{5}{8} \times 1\frac{9}{16}$ Inches
(120.3 × 90 × 38.5 mm)

Weight 6.1 oz
(174.1 g)

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





RadioShack Limited Warranty

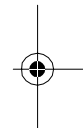
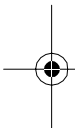
This product is warranted against defects for 90 days from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your RadioShack sales slip** as proof of purchase date to any RadioShack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

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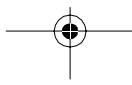
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