



14-1255.fm Page 1 Tuesday, July 27, 1999 10:47 AM



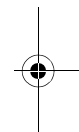
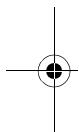
Cat. No. 14-1255

OWNER'S MANUAL

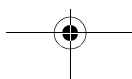
Please read before using this equipment.

SCP-103

Digital Tuning AM/FM
Stereo Auto-Reverse
Cassette Player



OPTIMUS®





FEATURES



Your Optimus SCP-103 Digital Tuning AM/FM Stereo Auto-Reverse Cassette Player delivers excellent sound from its built-in radio or your favorite cassette tapes, using your speakers or stereo headphones (not supplied). You can set the time on the cassette player's display, set an alarm to sound, and store up to 20 radio stations in memory. The tuner's PLL (Phase-Locked Loop) circuitry gives you precise tuning and drift-free reception.

Its features include:

Auto-Reverse Cassette Deck — lets you continuously play a cassette tape.

AM/FM Radio with 20-Station Memory — lets you store up to 20 radio stations (10 FM and 10 AM) in memory so you can quickly tune to your favorite stations.

LCD with Clock and Alarm — displays the current time and lets you set the SCP-103 to sound an alarm at the time you select.

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

BASS ON/OFF Switch — lets you emphasize bass sounds to suit your listening preferences.

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 **Jack** — lets you connect headphones for private listening, or speakers to share the sound with others.

Three Power Options — let you power the SCP-103 from internal batteries, standard AC power (with an optional AC adapter), or your vehicle's cigarette-lighter socket (with an optional DC adapter).

Removable Belt Clip — lets you attach the SCP-103 to your belt for hands-free carrying when you are on the go.

Key Lock — lets you lock any of the other front panel keys, to prevent you from accidentally turning the radio on or off, resetting the clock time, or losing radio stations stored in memory.

Note: You need a pair of headphones or amplified speakers (neither supplied) with a $\frac{1}{8}$ -inch plug to operate your SCP-103. Your local RadioShack store sells a wide variety of headphones and speakers.

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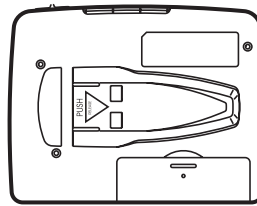
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PREPARATION

USING THE BELT CLIP

To attach the belt clip, align the tab on the back of the clip with the recess on the back of the case, then slide the clip up until it snaps into place.

To remove the belt clip, press the upper part of the clip and slide it down.



POWERING THE SCP-103

You can power your SCP-103 from any of three power sources:

- internal batteries (not supplied)
- standard AC power (with an optional AC adapter)
- your vehicle's cigarette-lighter socket (with an optional DC adapter)

Note: Connecting an optional adapter disconnects internal batteries.

Using Batteries

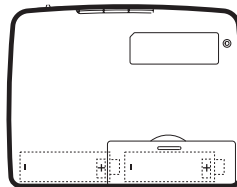
You can power your SCP-103 from two AA batteries (not supplied). We recommend RadioShack alkaline batteries. You can also use rechargeable nickel-cadmium batteries. If you use rechargeable batteries, you also need a battery charger (not supplied, available at your local RadioShack store).

Cautions:

- Do not mix old and new batteries, different types of batteries (standard, alkaline, and nickel-cadmium), or rechargeable batteries of different capacities in the SCP-103.
- Use only fresh batteries of the required size and type.

Follow these steps to install batteries.

1. Press down on the battery compartment cover and slide it in the direction of the arrow, then lift it up on its hinge to open it.
2. Install the batteries as indicated by the polarity symbols (+ and -) marked inside.
3. Replace the cover.



Note: If your SCP-103 locks up, remove one of the batteries, then reinstall it.

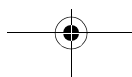
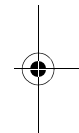
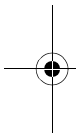


Replace the batteries when the low battery icon flashes on the display, the sound distorts, or the volume weakens.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

Caution: If you do not plan to use the SCP-103 for a month or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Important: At the end of a nickel-cadmium 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 curbside collection, drop-off boxes at retailers such as your local RadioShack store, recycling collection centers, and mail-back programs.



Using AC Power

You can power the SCP-103 using a 3V, 300 mA AC adapter and a size H Adaptaplug® (neither supplied). Both are available at your local RadioShack store.

Cautions:

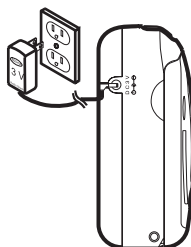


You must use a Class 2 power source that supplies 3V DC and delivers at least 300 mA. Its center tip must be set to positive and its plug must fit the SCP-103's **DC 3V** jack. Using an adapter that does not meet these specifications could damage the SCP-103 or the adapter.

- Always connect the AC adapter to the SCP-103 before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the SCP-103.

Follow these steps to connect an AC adapter to the SCP-103.

1. Set the adapter's voltage switch to 3V.
2. Insert the Adaptaplug into the AC adapter's socket. Line up TIP on the plug with +POS on the socket.
3. Insert the barrel plug into the SCP-103's **DC 3V** jack.
4. Plug the AC adapter into a standard AC outlet.



Using Your Vehicle's Cigarette-Lighter Socket

You can power the SCP-103 from a vehicle's 12V power source (such as cigarette-lighter socket) using a 3V, 300-mA DC adapter and a size H Adaptaplug® (neither supplied). Both are available at your local RadioShack store.

Cautions:

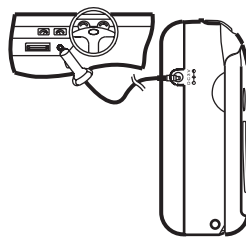


You must use a power source that supplies 3V DC and delivers at least 300 mA. Its center tip must be set to positive and its plug must fit the SCP-103's **DC 3V** jack. Using an adapter that does not meet these specifications could damage the SCP-103 or the adapter.

- Always connect the DC adapter to the SCP-103 before you connect it to the power source. When you finish, disconnect the adapter from the power source before you disconnect it from the SCP-103.

Follow these steps to power the SCP-103 from your vehicle's cigarette-lighter socket.

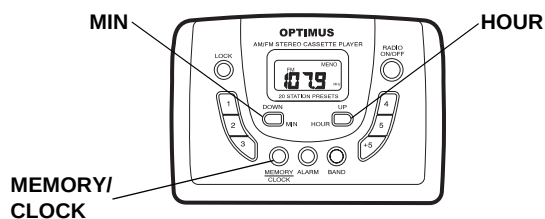
1. Set the adapter's voltage switch to 3V.
2. Insert the Adaptaplug into the DC adapter's socket. Line up positive (+) on the plug with TIP on the socket.



3. Insert the plug into the SCP-103's **DC 3V** jack.
4. Plug the adapter into the vehicle's cigarette-lighter socket.

Note: If the SCP-103 does not operate when you turn it on, remove the DC adapter from your vehicle's cigarette-lighter socket and check the socket for debris. Also, check the fuse in the adapter and your vehicle's fuse block.

SETTING THE CLOCK



1. In the time mode, press **MEMORY/CLOCK**. The currently set time flashes.

Note: If you do not press **HOUR** or **MIN** within 5 seconds, the currently set time stops flashing. If that happens, repeat this step.

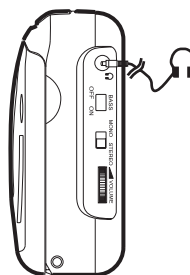
2. Repeatedly press **HOUR** until the display shows the correct hour. To rapidly advance the hours, hold down **HOUR**.

3. Repeatedly press **MIN** until the display shows the correct minute. To rapidly advance the minutes, hold down **MIN**.
4. When the display shows the correct time, either press **MEMORY/CLOCK** or wait until the display stops flashing.

CONNECTING HEADPHONES OR AMPLIFIED SPEAKERS

To listen to the SCP-103, you need a pair of headphones or amplified speakers with a $\frac{1}{8}$ -inch (3.5-mm) plug. Your local RadioShack store carries a wide selection of headphones and amplified speakers.

Insert the headphones' or speakers' $\frac{1}{8}$ -inch plug into the SCP-103'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.

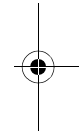
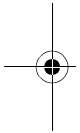


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- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
 - Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause 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.

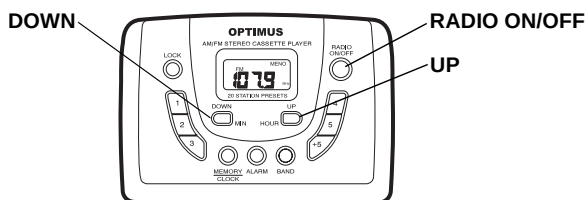
Even though some headphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.



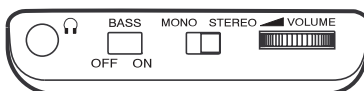
USING THE RADIO

LISTENING TO THE RADIO

Important: Make sure you have connected headphones or speakers to the SCP-103. See "Connecting Headphones or Amplified Speakers" on Page 11.



1. Press **RADIO ON/OFF** to turn on the radio.
2. Adjust **VOLUME** to a comfortable listening level.



3. Hold down **BAND** until the display shows the desired band (**AM** or **FM**).
4. Tune to the desired station using manual or seek tuning.

Manual Tuning: Repeatedly press **UP** or **DOWN** to tune up or down the selected band. To rapidly tune the band, hold down **UP** or **DOWN**.



Seek Tuning: Hold down **UP** or **DOWN** for about 1 second. The SCP-103 tunes up or down the selected band, then stops at the next higher or lower station that has a strong signal.

Notes:

- The SCP-103 has a built-in AM antenna, and the headphones' or speakers' cord serves as an FM antenna. For the best AM reception, rotate the SCP-103. For the best FM reception, fully uncoil the headphones' or speakers' cord.
- If FM stereo reception is poor or noisy, switch **STEREO/MONO** to **MONO**. The sound is not in stereo, but reception should improve.

5. Set **BASS ON/OFF** to **ON** for extra bass effect, or to **OFF** to leave the bass sound unchanged.

6. To turn off the radio, press **RADIO ON/OFF**.

STORING STATIONS IN MEMORY

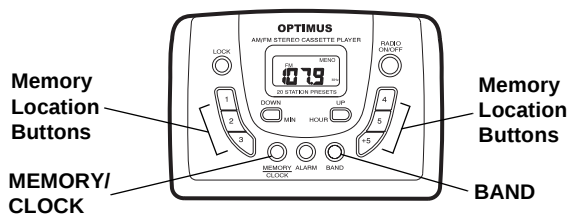
You can store up to 20 radio stations (10 FM and 10 AM) in memory, then quickly tune to a stored station by pressing a memory button (or **+5** and a memory button).

Follow these steps to store stations in memory.

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



2. Repeatedly press **BAND** until the display shows the desired band (**AM** or **FM**).



3. Tune to the first station you want to store. The display shows the frequency.
4. Press **MEMORY/CLOCK**. **MEMO** flashes on the display for about 5 seconds.

Note: If you do not press a memory location button or **+5** within about 5 seconds, **MEMO** disappears from the display. Start again from Step 4.

5. To store stations into memory locations 1–5, press a memory location button (**1–5**), then press **MEMORY/CLOCK** again. **MEMO** disappears.

To store stations into memory locations 6–10, press **+5**, then one of the memory location buttons (**1–5**). For example, if you press **+5** then **1**, the stereo stores the selected frequency into memory location **6**. Press **MEMORY/CLOCK** again.

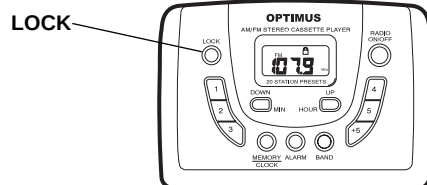
6. Tune to the next station you want to store, then repeat Steps 4 and 5.

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

USING LOCK

This button helps prevent you from accidentally turning the radio on or off, resetting the clock time, or losing radio stations stored in memory.

Press **LOCK** to activate this function. The lock icon appears. To deactivate the lock function, press **LOCK** again. The lock icon disappears.





USING THE CASSETTE PLAYER

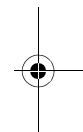


PLAYING A CASSETTE TAPE

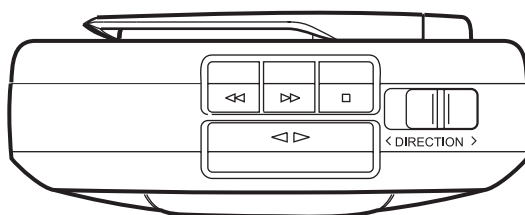
Important: Make sure that you have connected headphones or speakers to the SCP-103. See "Connecting Headphones or Amplified Speakers" on Page 11.

Caution: We do not recommend using C-120 cassette tapes. They are very thin and can easily become tangled in the tape-handling parts.

1. Press **RADIO ON/OFF** to turn off the radio.
2. Take up any slack in the cassette tape by turning its hub with your finger or a pencil. If you do not remove excess slack, the tape might become tangled in the play mechanism. Avoid touching the tape.
3. Pull open the cassette compartment door.
4. Slide the cassette tape into the guides in the door with the tape's open edge facing up, the side you want to hear facing out, and the full reel to the left. Then close the door.



5. Press ◀▶ to play the tape.



Notes:

- After playing to the end of a side, the tape changes direction to play the other side.
- To reverse the tape direction during playback, slide **< DIRECTION >** to the other setting.
- To fast-forward or rewind the cassette tape, press ▶▶ or ◀◀. When you reach the desired section of tape, press ■ then ◀▶ to resume play.

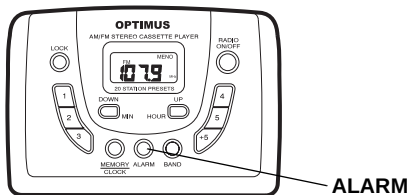
6. Adjust **VOLUME** to a comfortable listening level.
7. Set **BASS ON/OFF** to **ON** for extra bass effect, or to **OFF** to leave the bass sound unchanged.
8. Press ■ to stop the tape.

USING THE ALARM

You can set the SCP-103 to automatically sound a beeping alarm at a time you select.

SETTING THE ALARM TIME

1. Press **RADIO ON/OFF** to turn off the radio. The display shows the currently set time.
2. Press **ALARM**. **ALARM** and the currently set alarm time flash.



Note: If you do not press **HOUR** or **MIN** within 5 seconds, **ALARM** and the currently set alarm time stop flashing. If this happens, repeat Step 2.

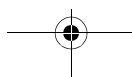
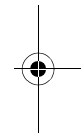
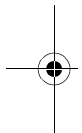
3. Repeatedly press **HOUR** until the display shows the desired hour.
4. Repeatedly press **MIN** until the display shows the desired minute.
5. When the display shows the desired alarm time, wait until **ALARM** and the set alarm time stop flashing to allow the SCP-103 to store the setting.



TURNING THE ALARM OFF

At the preset alarm time, the alarm beeps, even if a cassette or the radio is playing. Press any key on the front panel to silence the alarm. The alarm will sound again the next day at the set time.

To turn off the alarm so it does not sound again the next day, press **ALARM** twice so **ALARM** disappears from the display.



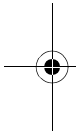


CARE

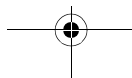
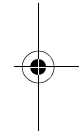


To enjoy your cassette player for a long time:

- Keep the cassette player dry. If it gets wet, wipe it dry immediately.
- Use and store the cassette player only in normal temperature environments.
- Handle the cassette player gently and carefully. Don't drop it.
- Keep the cassette player away from dust and dirt.
- Wipe the cassette player with a damp cloth occasionally to keep it looking new.

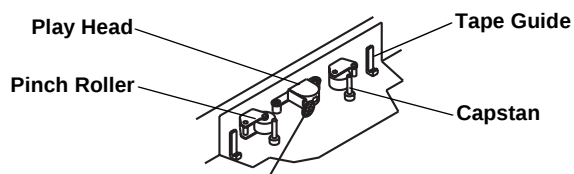


Modifying or tampering with the cassette player's internal components can cause a malfunction and invalidate its warranty. If your cassette player is not performing as it should, take it to your local RadioShack store for assistance.



CLEANING THE TAPE-HANDLING PARTS

Dirt, dust, or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the SCP-103. Follow these steps after every 20 hours of operation.



1. Remove the batteries and disconnect any other power source.
2. Open the cassette compartment door.
3. Press ◀▶ to expose the tape-handling parts.
4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the play head, pinch roller, capstan, and tape guides.
5. When you finish cleaning, press ■ and close the cassette compartment door. Then reconnect power.

Your local RadioShack store carries a full line of cassette player cleaning supplies.

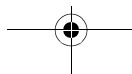
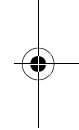
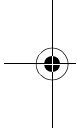


RESTORING TAPE TENSION AND SOUND QUALITY

After you play a cassette 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.



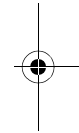
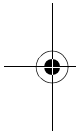


THE FCC WANTS YOU TO KNOW

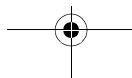
This equipment complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your equipment might cause TV or radio interference even when it is operating properly.

To eliminate interference, you can try one or more of the following corrective measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the radio or TV.
- Use outlets on different electrical circuits for the equipment and the radio or TV.



Consult your local RadioShack store if the problem still exists.



SPECIFICATIONS

GENERAL

Power Requirements	DC 3V
Power Sources	2 AA Batteries, AC Adapter, DC Adapter
Battery Life	Approx. 14 Hours (Nominal)
Dimensions (HWD)	4.53 × 3.46 × 1.5 in (115 × 88 × 38 mm)
Weight	6.9 oz (200 mg)

CASSETTE DECK

Tape Speed	1 ⁷ / ₈ ips (4.75 cm Per Second)
Tape System	Four Track, Stereo
Frequency Response (at -6dB)	125-8,000 Hz
S/N Ratio	44 dB
Motor	3 Volt Motor with Governor

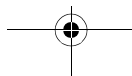
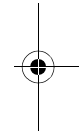
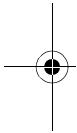
RADIO

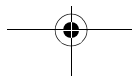
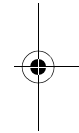
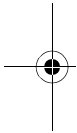
AM Sensitivity at 20 dB S/N	2000 μ V/m
AM Selectivity ($\pm$ 10 kHz)	15 dB
FM IHF Usable Sensitivity	10 μ V
FM Selectivity ($\pm$ 400 kHz)	15 dB
10% THD Output Power	10 mW (32 Ohms)

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



NOTES





Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

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

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

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