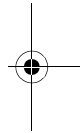


Cat. No. 14-508 **A**  
**OWNER'S MANUAL**

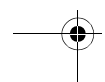
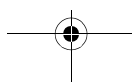
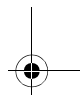
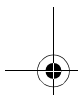
Please read before using this equipment.

**CD-3330**

**Portable CD Player  
with AM/FM Stereo Cassette**



**OPTIMUS®**



## FEATURES

Your Optimus CD-3330 Portable CD Player is an all-in-one music system with a stereo AM/FM radio, a cassette recorder, and a top-loading CD player. It is small and portable so you can take it anywhere, indoors or out. Anywhere you go, at work or play, you can listen to the radio, prerecorded cassette tapes, or compact discs.

**Automatic Stop** — protects the tape and tape-handling parts by automatically stopping the tape when it reaches the end.

**Headphone Jack** — lets you connect a pair of headphones or earphones for private listening.

**8 × Oversampling** — improves the CD's sound by multiplying the standard 44.1 kHz sample rate by eight.

**Dual-Source Recording** — lets you record from the CD player or radio.

**One-Touch Recording** — lets you start recording by pressing a single button.

**Automatic Level Control** — automatically adjusts the recording level.

**Automatic Search Music System** — lets you quickly locate and play any track on a CD.

**Two Power Options** — you can use standard AC power (with the supplied AC power cord) or internal batteries (not supplied) to power the player.

**Important:** Most material on compact discs and prerecorded tapes is copyrighted. Unauthorized duplication of copyrighted material is a violation of the copyright laws of most countries and such duplication may result in fines and/or imprisonment. Note, however, that in the United States, it is not a violation of U.S. copyright laws for a consumer to use an audio recording device to duplicate musical recordings for noncommercial (personal) use.

CDs that can be played on this CD player have this mark on them:



The CD player's advanced technology makes it simple to operate. But, be sure you read this Owner's Manual completely so you can take advantage of all its advanced features.

We recommend you record your CD player's serial number here. The number is below the rating label on the back panel of the CD player.

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

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All Rights Reserved.

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This CD player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

#### Warnings:

- This CD player employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
- The use of controls, adjustments, or procedures other than those specified herein might result in hazardous radiation exposure.



## THE FCC WANTS YOU TO KNOW

This recorder 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, 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 recorder and the radio or TV.
- Use outlets on different electrical circuits for the recorder and the radio and TV.

Consult your local RadioShack store if the problem still exists.

**WARNING:** To reduce the risk of 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.

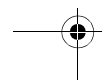
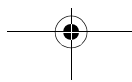


This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.



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## PREPARATION

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### CONNECTING POWER

You can power your CD-3330 from either:

- standard AC power (with the supplied power cord)
- six D batteries (not supplied)

**Note:** Connecting the power cord disconnects internal batteries.

### Using AC Power

To use AC power, plug the supplied power cord into the **AC IN** ~ jack on the back of the CD-3330. Then plug the other end into a standard AC outlet.

#### Cautions:

- The plug's blades are polarized (one blade is wider than the other) and fit only one way. If the plug does not fit easily, turn it over and try again. Do not force it.
- Always unplug the power cord from the AC outlet before you unplug it from the CD-3330.

### Using Batteries

You can use six D batteries (not supplied) to power the CD-3330. For the best performance and longest life, we recommend alkaline batteries, available at your local RadioShack store.

#### Cautions:

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

**Hint:** For the easiest battery installation, turn the CD-3330 face down on a flat surface.

1. Press down on the two tabs above the battery compartment cover and pull out the cover to remove it.

2. Install the batteries in the compartment and on top of the attached ribbon, as indicated by the polarity symbols (+ and -) marked on the lower left corner of the back of the CD-3330.

3. Replace the cover.

When the CD-3330's sound weakens or distorts, replace the batteries.

**Cautions:**

- Dispose of old batteries promptly and properly. Do not burn or bury them.
- If you do not plan to use the CD-3330 with batteries for a month or more, or if you plan to use only AC power, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

## USING HEADPHONES

For listening privately, you can connect a pair of stereo headphones (not supplied) with a 1/8-inch (3.5-mm) plug into the **PHONES** jack. Your local RadioShack store carries a wide selection of stereo headphones.

**Note:** Connecting headphones automatically disconnects the built-in speaker.

## 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.



## RADIO OPERATION

---

1. Set **TAPE/RADIO/CD** to **RADIO**.

### Notes:

- With **FM MODE** set to **STEREO**, the FM **STEREO** indicator lights to show when you tune to a stereo station.
- For the best FM reception, fully extend the telescoping antenna and swivel it to the position that produces the best reception.
- For the best AM reception, rotate the CD-3330 to position the built-in AM antenna.
- If FM stereo reception gets weak while **FM MODE** is set to **STEREO**, set **FM MODE** to **MONO**. The sound is no longer in stereo, but reception should improve.

2. Set **FM .AM** to the desired band.

**Note:** Set **FM MODE** to **STEREO** for FM stereo sound or to **MONO** for monaural sound.

4. Adjust **VOLUME** to a comfortable level.

3. Adjust **TUNING** to the desired station.

5. Adjust **TONE** toward **HI** to emphasize the treble sounds or toward **LO** to emphasize the bass sounds.

6. To turn off the radio, set **TAPE/RADIO/CD** to **TAPE**.



## CD PLAYER OPERATION

---

### LOADING A CD

1. Set **TAPE/RADIO/CD** to **CD**. -- briefly flashes on the display.
2. Press **▲ CD** to open the CD compartment door.

**Note:** Before using the CD player, remove the shipping foam and cardboard discs inside the CD compartment.

3. Place a CD in the compartment with the label facing up.

4. Close the CD compartment door. The total number of tracks appears on the display.
5. To remove the CD, press **▲ CD** and grasp the CD by its edges, and carefully pull it out.

### PLAYING A CD

1. Press **▶|| PLAY/PAUSE** to play all the tracks in order, starting with Track 1. The current track number and **▶** appear on the display.

**Note:** To temporarily stop the CD press **▶|| PLAY/PAUSE**. **▶||** and the current track number appear on the display. Press **▶|| PLAY/PAUSE** again to resume playing the CD.

2. Adjust **VOLUME** to a comfortable level.
3. Adjust **TONE** toward **HI** to emphasize the treble sounds or toward **LO** to emphasize the bass sounds.
4. The CD stops after playing the last track. To stop play sooner, press **■ STOP**. Wait a few seconds for the CD to stop turning, then press **▲ CD** to open the CD compartment door and remove the CD.



## AUTOMATIC SEARCH MUSIC SYSTEM

The automatic search music system lets you quickly locate the beginning of any track on the CD, including the track currently playing.

If the CD is playing:

- Press ◀◀ to return to the beginning of the current track.
- Press ◀◀ again to skip to the beginning of the previous track.
- Press ▶▶ to skip to the beginning of the next track.

If the CD is stopped, repeatedly press (or hold down) ◀◀ or ▶▶ until the display shows the number of the track you want to play, then press ▶|| **PLAY/PAUSE**. The CD player starts playing the selected track.

To search backward or forward within a track while the CD is playing, hold down either ◀◀ or ▶▶. You hear the track play rapidly and at a lower volume. Release the button to resume normal play.

## CD CARE TIPS

Even though a compact disc is durable, treat the CD surface with care.

- Do not write on either side of the CD, particularly the non-label side (signals are read from the non-label side).
- Do not store CDs in high temperature, high-humidity locations. They might warp.
- Keep CDs dry. A water drop can act as a lens and affect the laser beam's focus.
- Always handle a CD by the edges to avoid fingerprints and always keep it in its protective case or sleeve when it is not in use. Fingerprints and scratches on the CD's surface can prevent the laser beam from correctly reading the digital information. If the CD gets scratched, use Scratch'n Fix (Cat. No. 42-127) to repair the disc.

## CASSETTE PLAYER OPERATION

### PLAYING A CASSETTE TAPE

**Note:** Before operating the cassette player, remove the shipping cardboard from behind the cassette player control buttons.

1. Set **TAPE/RADIO/CD** to **TAPE**.
2. Press **STOP/EJECT** ■/▲ to open the cassette compartment door.
3. Take up any slack in the cassette tape by turning its hub with your finger or a pencil. Otherwise, the tape might become tangled in the play mechanism. Avoid touching the tape.

6. Press **PLAY** ◀. The cassette plays until it reaches the end of the side, then it automatically stops.

**Note:** To temporarily stop play, press **PAUSE** ■■. Press **PAUSE** ■■ again to resume play.

7. Adjust **VOLUME** to a comfortable level.
8. Adjust **TONE** toward **HI** to increase treble sounds or toward **LO** to increase bass sounds.
9. To manually stop play, press **STOP/EJECT** ■/▲. Press **STOP/EJECT** ■/▲ again to open the cassette compartment door.

### RECORDING

You can record from the CD player or radio.

**Notes:**

- The CD-3330's Automatic Level Control (ALC) automatically adjusts the recording level. **VOLUME** has no effect on recording.

- Tape quality greatly affects the quality of the recording. We recommend regular length (60- or 90-minute) cassette tapes. We do not recommend long-play cassette tapes such as C-120s because they are thin and can easily tangle. For low-noise, wide-range recordings, use normal-bias tape.
- Before you load a cassette tape for recording, turn the cassette's hub with your finger or a pencil to move the tape past its leader.
- Before recording, be sure the erase-protection tabs are in place on the cassette tape you are using to record. See "Preventing Accidental Erasure" on Page 12.

**Caution:** If you try to record on a cassette tape that has had its erase protection tabs removed, you cannot press **RECORD** ●. Do not force it, as this can damage the mechanism.

### Recording from the CD Player

1. Set **TAPE/RADIO/CD** to **CD**.
2. Load a blank cassette tape, or one you want to record over, into the cassette compartment.
3. Load a CD into the CD compartment.
4. Press **RECORD** ● on the cassette tape deck. **RECORD** ● and **PLAY** ◀ lock down. The cassette deck starts recording and the CD starts to play the first track.

If you want to begin recording on another track besides the first, press **SEARCH** ►► on the CD player until that track number appears on the display. Then press **RECORD** ● and the cassette player begins recording from the beginning of the selected track.

#### Notes:

- To temporarily pause the recording, press **PAUSE** ■■ on the cassette deck. Press **PAUSE** ■■ again to resume recording.
  - If you also want to pause the CD player, press ►|| **PLAY/PAUSE**. Press ►|| **PLAY/PAUSE** again to resume playing the CD.
  - If you hold down ◀◀ or ►► to search within a track during recording, the cassette deck will record the sound.
5. To stop recording before the tape reaches the end, press **STOP/EJECT** ■/▲ on the cassette deck.
  6. To stop the CD player before it automatically stops, press ■ **STOP** on the CD player.

### Recording from the Radio

1. Follow Steps 1–4 listed in "Radio Operation" on Page 7.
2. Insert a blank cassette tape, or one you want to record over, into the cassette compartment.

3. Press **RECORD** ● on the cassette deck. **RECORD** ● and **PLAY** ◀ lock down. The cassette deck starts recording from the radio.

**Note:** To temporarily pause the recording, press **PAUSE** ■■ on the cassette deck. Press **PAUSE** ■■ again to resume recording.

4. To stop recording before the tape reaches the end, **STOP/EJECT** ■/▲ on the cassette deck.

## TAPE TIPS

### Erasing a Cassette Tape

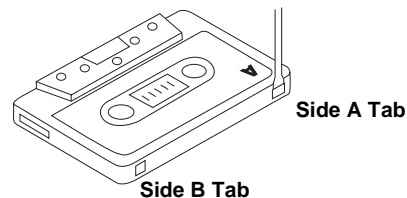
To erase a previously recorded tape, simply record over it. To erase the entire cassette tape, set **TAPE/RADIO/CD** to **CD** and do not load a CD. Then start recording and let the tape record to the end. Or, set **TAPE/RADIO/CD** to **TAPE** and press **RECORD** ●.

To quickly erase both sides of a cassette tape, use a bulk tape eraser, available at your local RadioShack store.

### Preventing Accidental Erasure

Cassette tapes have two erase-protection tabs — one for each side. To protect a recording from being accidentally recorded over or erased, use a screw-

driver to remove one or both erase-protection tabs.



If you want to record on a tape side after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole. Be sure you cover only the hole originally covered by the erase-protection tab.

**Note:** Removing erase-protection tabs does not prevent a bulk eraser from erasing a cassette tape.

### 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. 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.

## CARE AND MAINTENANCE

---

Your RadioShack Optimus CD-3330 Portable CD Player is an example of superior design and craftsmanship. The following suggestions will help you care for your CD-3330 so you can enjoy it for years.



Keep the CD-3330 dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the CD-3330 only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.



Keep the CD-3330 away from dust and dirt, which can cause premature wear of parts.



Handle the CD-3330 gently and carefully. Dropping it can damage circuit boards and cases and can cause the CD-3330 to work improperly.



Use only fresh batteries of the required size and recommended type. Batteries can leak chemicals that damage your CD-3330's electronic parts.



Wipe the CD-3330 with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the CD-3330.

Modifying or tampering with the CD-3330's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your CD-3330 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 cassette player. After every 20 hours of tape player operation, use a cassette deck cleaning kit (Cat. No. 44-1202), or follow these steps to clean the tape-handling parts.

1. Remove the batteries and disconnect AC power.
2. Open the cassette compartment door.
3. With the eraser end of a pencil, gently press down on the erase protection tab sensor.

5. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the tape guides, record/play head, erase head, pinch roller, and capstan.

When you finish cleaning, press **STOP/EJECT**  and close the cassette compartment door. Then reconnect power.

Your local RadioShack store sells a complete line of cassette deck cleaning supplies.

4. While holding down the erase protection tab sensor, press **RECORD**  to expose the tape-handling parts.



# SPECIFICATIONS



## RADIO

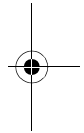
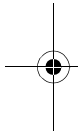
Frequency ..... AM: 530–1710 kHz  
..... FM: 88–108 MHz

## CASSETTE DECK

Tape Speed ..... 17/8 ips  
..... (4.75 cm/sec)  
Tape System ..... 4-Track Stereo  
Recording System ..... AC Bias  
Erasing System ..... Permanent Magnet Erase Head

## CD PLAYER

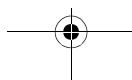
Frequency Response ..... ±4 dB @ 61 Hz–16 kHz  
Signal-to-Noise ..... 50 dB  
Sampling Frequency ..... 44.1 kHz  
Oversampling ..... 8 Times  
Harmonic Distortion ..... 2%



## GENERAL

Power Supply ..... 120V AC, 60 Hz  
..... or Six D Batteries (Cat. No. 23-550)  
Output Power (10% THD) ..... 1 Watt × 2 Channels  
Dimensions ..... 16<sup>3</sup>/<sub>4</sub> × 6<sup>1</sup>/<sub>4</sub> × 8<sup>1</sup>/<sub>4</sub> Inches (HWD)  
..... (425 × 159 × 210 mm)  
Weight (Without Batteries) ..... 6 lbs 4 oz  
..... (2.9 kg)

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



### 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.

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**Fort Worth, Texas 76102**

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