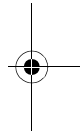
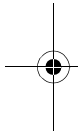


Cat. No. 42-5099  
**OWNER'S MANUAL**

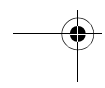
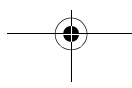
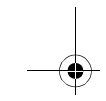
Please read before using this equipment.

**CD-3860**

**Portable Compact Disc Player**  
**with Super Anti-Shock**  
**and Car Kit**



**OPTIMUS®**



## FEATURES

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Your Optimus CD-3860 Portable Compact Disc Player uses the latest digital audio technology to deliver the clean, crisp sound of compact discs. You can connect the CD player to your home audio or autosound system, or connect a pair of stereo headphones for private listening.

The CD player's features include:

**Super Anti-Shock System** — rapidly scans 40 seconds of data from the CD and stores it in memory for uninterrupted play with no sound skip, even when the CD player is exposed to shocks or vibration. This makes this CD player excellent for use in your vehicle.

**Supplied CD-to-Cassette Adapter** — lets you connect the CD player directly to a cassette player in your vehicle.

**1-Bit DAC** — uses the latest in digital-to-analog conversion circuitry to accurately reproduce all sound levels with virtually no distortion.

**Eight-Times Oversampling with Digital Filtering** — improves the CD's sound by multiplying the standard 44.1 kHz sample rate by eight and using a digital filter to reduce or eliminate distortion.

**Programmable Play** — lets you program and play up to 22 tracks in any order you choose.

**Repeat Play** — lets you automatically repeat a single track, an entire CD, or a programmed sequence.

**Intro Scan** — scans and plays the first 10 seconds of each track, so you can find a specific track.

**Random Play** — randomly selects and plays tracks from a loaded CD.

**Extended (E-) Bass System** — creates a fuller bass sound.

**Auto Power Off** — automatically turns the CD player off 30 seconds after it finishes playing, or you press **STOP** (without pressing another button), to help preserve battery life.

**Headphone Jack** — lets you connect your CD player to optional headphones or speakers.

**Line Out Jack and Supplied Y-Cable** — make it easy to connect the CD player to your sound system's low-level inputs.

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

**Audible Search** — lets you rapidly play a CD in either direction to locate a desired section of a track.

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**Hold** — prevents accidentally changing the CD player's control settings during play and preserves battery life by locking most controls.

**Three Power Sources** — let you power your CD player from two standard or rechargeable nickel-cadmium AA batteries (not supplied), your vehicle's battery using the supplied DC adapter, or standard AC power using an optional AC adapter.

**5- or 3-Inch CD Compatible** — lets you play either size CDs on your CD player.

**Important:** You need a pair of stereo headphones, earphones, or amplified speakers, or a home audio or autosound system to use your CD player. Your local RadioShack store carries a complete line of headphones, earphones, speakers, and audio systems.

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

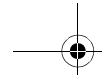


The CD player's advanced technology makes it simple to operate. But, be sure you read this Owner's Manual completely so you can take advantage of all its advanced features.

## CD CARE TIPS

Even though a CD is very durable, you should handle it with care.

- Keep the CD inside the CD player or in its protective case or sleeve when you are not playing it.
- Handle a CD by its edges to avoid fingerprints that can prevent the CD player's laser beam from accurately reading the CD. Your local RadioShack store sells a suitable CD cleaner kit.
- Do not write on either side of the CD, particularly the non-label side. (Signals are read from the non-label side.)
- Keep the CD dry. A water drop can act as a lens and affect the laser beam's focus.
- Never use chemicals such as record cleaning sprays, anti-static sprays or fluids, benzene, or thinner to clean CDs. These chemicals will permanently damage the plastic surface of the CD.
- If a CD skips when you try to play it, the CD might be scratched. Your local RadioShack store sells a Scratch 'n Fix kit that might stop the skip. Also see "Troubleshooting" on Page 17.



## THE FCC WANTS YOU TO KNOW

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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.

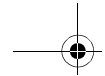
### FCC INFORMATION

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.

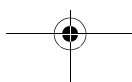
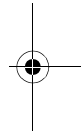
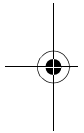
You must use shielded interface cables with this equipment.



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## POWERING THE CD PLAYER

You can power your CD player from any of these sources:

- two AA alkaline batteries (not supplied)
- two rechargeable AA nickel-cadmium batteries (not supplied)
- vehicle battery power using the supplied DC adapter
- standard AC power using an AC adapter (not supplied)

**Note:** The CD player senses whether or not the batteries you install are rechargeable, and turns on the charging circuit or disconnects the batteries accordingly.

## USING BATTERIES

Your CD player can use two AA batteries (not supplied) for power. For the best performance and longest life, we recommend RadioShack alkaline batteries.

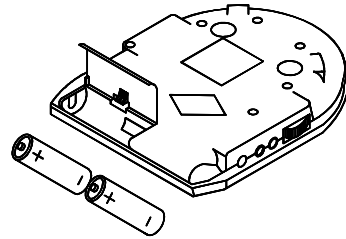
You can also use rechargeable nickel-cadmium batteries to power your CD player.

### 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.

**Note:** Before you use the CD player with nickel-cadmium batteries, you need to charge them, either in an external battery charger (available at your local RadioShack store) or in the CD player (see "Recharging Nickel-Cadmium Batteries" on Page 7).


Follow these steps to install the batteries.



1. Press down on the battery compartment cover and slide it in the direction of the arrow on the cover, then lift the cover.

**Caution:** The battery compartment cover is attached to the CD player. Do not try to remove it.

2. Put two AA alkaline or nickel-cadmium batteries in the battery compartment, as indicated by the polarity symbols (+ and -) marked outside.
3. Close the battery compartment cover.

When  flashes on the display, the sound distorts, or the volume weakens, replace or recharge the batteries.

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

**Caution:** If you do not plan to use the CD player with batteries for a month or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

## Recharging Nickel-Cadmium Batteries

If you connect the supplied DC adapter (see "Using Vehicle Battery Power" on Page 8) or an AC adapter (see "Using AC Power" on Page 8) to the CD player, nickel-cadmium batteries automatically charge while they are inside the CD player's battery compartment.

### Cautions:

- Use only the supplied DC adapter or an AC adapter that meets the specifications listed in "Using AC Power" on Page 8 to recharge the batteries in the CD player. Other adapters could damage your CD player or the batteries.
- Do not use the CD player or open the CD compartment cover while you are charging nickel-cadmium batteries.
- Nickel-cadmium batteries charge more efficiently if the temperature is above 40°F (4.5°C) and below 90°F (32°C).

Follow these steps to charge RSU 11672508 Ni-Cd batteries in the CD player.

1. Connect an AC or DC adapter to your CD player

2. Insert two RSU 11672508 Ni-Cd batteries into the battery compartment. The CD player starts to charge the batteries. Initial and subsequent charging takes about 14 hours.

3. It takes about 14 hours to charge new or fully discharged nickel-cadmium batteries. Subsequent charges take 2–3 hours.

When the batteries are fully charged, disconnect the AC or DC adapter.

**Important:** This CD player can use Ni-Cd rechargeable batteries. At the end of a Ni-Cd 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 or call 1-800-843-7422. 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 VEHICLE BATTERY POWER

You can power the CD player from your vehicle's battery power with the supplied DC adapter.

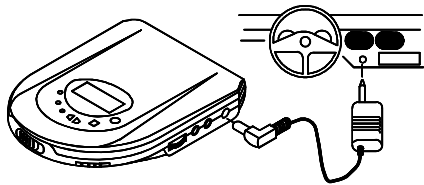
### Cautions:



You must use a power source that supplies 4.5 volts DC and delivers at least 600 mA. Its center tip must be set to positive and its plug must fit the CD player's **DC IN 4.5V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the CD player or the adapter.

- When you finish using the CD player, always unplug the DC adapter from the cigarette-lighter socket before you disconnect it from your CD player.

Follow these steps to connect the CD player to your vehicle's battery power.



1. Insert the DC adapter's barrel plug into the CD player's **DC IN 4.5V** jack.
2. Make sure the DC adapter's tip is screwed in tightly, then plug the DC adapter's other end into your vehicle's cigarette-lighter socket.

**Note:** If the CD player does not operate when you use the DC adapter, unplug the cord from the cigarette-lighter socket and clean any ashes or debris from the socket.

## USING AC POWER

You can power the CD player from a 4.5V, 600 mA AC adapter and a size B Adaptaplug (neither supplied). Both are available at your local RadioShack store.

### Cautions:



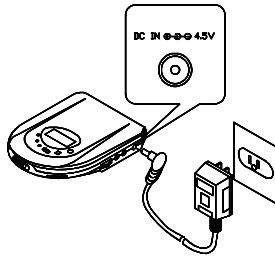
You must use a Class 2 power source that supplies 4.5 volts DC and delivers at least 600 mA. Its center tip must be set to positive and its plug must fit the CD player's **DC IN 4.5V** jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications could damage the CD player or the adapter.

- When you finish using the AC adapter, unplug it from the AC outlet first, then disconnect it from the CD player.

Follow these steps to connect the CD player to AC power.

1. Insert the size B Adaptaplug adapter into the AC adapter's cord so it reads TIP + (positive).





2. Set the AC adapter's voltage switch to 4.5V.
3. Insert the AC adapter's barrel plug into the CD player's **DC IN 4.5V** jack.
4. Plug the other end of the adapter into a standard AC outlet.

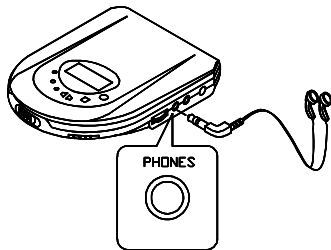
## CONNECTIONS

You can listen to your CD player by connecting earphones/headphones or amplified speakers to the player's **PHONES** jack, or by connecting a home audio or autosound system to the CD player's **LINE OUT** jack.

**Note:** If the jacks on your equipment do not match the plugs on the supplied Y-cable, check with your local RadioShack store for the proper cable adapter.

### CONNECTING EARPHONES/HEADPHONES

For private listening, you can plug a pair of optional stereo earphones or headphones with a  $\frac{1}{8}$ -inch (3.5-mm) plug into the **PHONES** jack on the CD player.



Your local RadioShack carries a wide variety of earphones and headphones to use with your CD player.

#### Listening Safely

To protect your hearing, follow these guidelines when you use earphones or 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

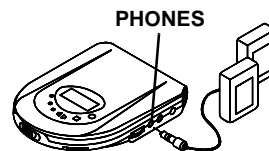
Do not wear earphones or headphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

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

### CONNECTING AMPLIFIED SPEAKERS

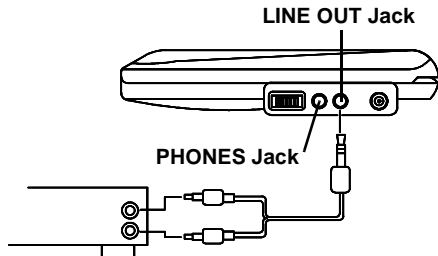
You can listen to your CD player through optional amplified speakers.

Plug the speaker cable's  $\frac{1}{8}$ -inch (3.5-mm) plug into the CD player's **PHONES** jack.

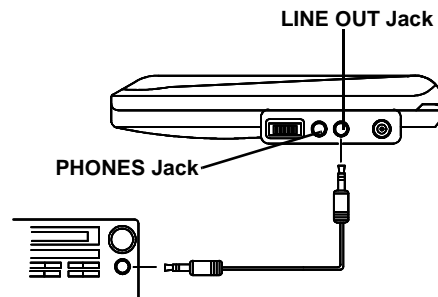


## CONNECTING TO A HOME AUDIO SYSTEM

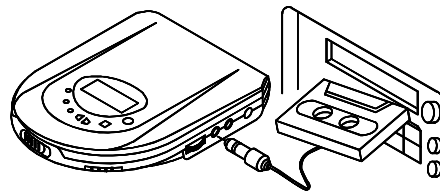
You can listen to your CD player through your home audio system's amplifier/receiver and full-size speakers. Connect the supplied Y-cable's  $\frac{1}{8}$ -inch (3.5-mm) plug to the CD player's **LINE OUT** jack. Then connect the Y-cable's phono plugs to your audio system's left and right CD, AUX, or TV audio input jacks.



nect the other end to your autosound system's CD INPUT jack.



- If your autosound system has a cassette deck, connect the supplied CD-to-cassette adapter's plug to the CD player's **PHONES** jack. Then insert the adapter's other end into your cassette deck just like a standard cassette.



## CONNECTING TO AN AUTOSOUND SYSTEM

You can listen to your CD player through your autosound system in one of the following ways:

- If your autosound system has **LINE IN** jacks, connect the supplied Y-cable's  $\frac{1}{8}$ -inch (3.5-mm) plug to the CD player's **LINE OUT** jack. Then connect the Y-cable's phono plugs to your autosound system's **LINE IN** input jacks.
- If your autosound system has a **CD** input jack, connect one end of a  $\frac{1}{8}$ -inch stereo patch cable to the CD player's **LINE OUT** jack. Then con-

To avoid sound distortion, set **VOL** to the lowest comfortable listening level and adjust it as necessary.

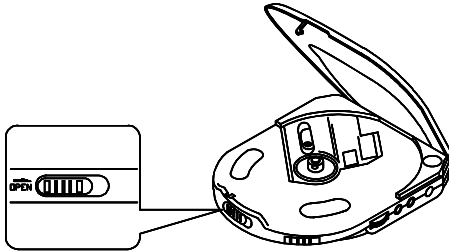
**Note:** You can mount your CD player in your car using an optional mounting bracket. Your local RadioShack store has a complete line of mounting brackets and hardware.

## OPERATION

### LOADING A CD

**Caution:** To help prevent dust from entering the CD player, always keep the CD compartment cover closed except when loading or unloading CDs.

1. Slide **OPEN** in the direction of the arrow and lift the CD compartment cover.



2. Carefully place a CD, label side up, inside the CD compartment and on top of the center hub. Then gently press the CD down over the center hub.
3. Close the compartment cover.

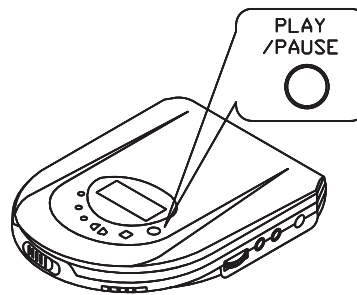
**Note:** To remove a CD, lift up the CD while pressing the center hub's button.

### PLAYING A CD

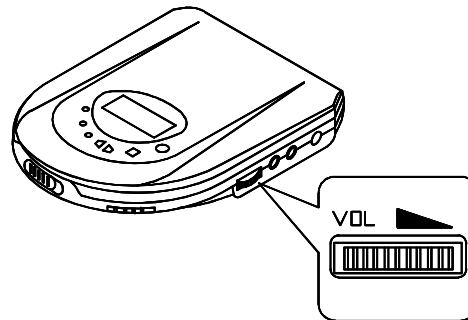
**Warning:** To protect your hearing if you are using earphones or headphones, set **VOL** to its lowest setting before you play a CD.

Press **PLAY/PAUSE**. The CD player turns on and 00 appears and the total number of the CD tracks and the CD's total playing time appear briefly. Then the current

track number and the track's playing time appear as Track 1 begins to play.



If you connected an earphone/headphones or amplified speakers to the CD player's **PHONES** jack, use **VOL** on the CD player to adjust the volume.



If you connected the CD player to your home audio system or autosound system using the **LINE OUT** jack, you must use the home audio or autosound system's volume control to adjust the volume.

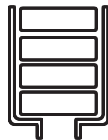
To temporarily stop play, press **PLAY/PAUSE**. The current track's elapsed time flashes. To resume play, press **PLAY/PAUSE** again.

When the last track finishes playing, the CD stops and the display alternately shows the total number of tracks and total playing time of the CD for about 30 seconds, then the CD player automatically turns off. To turn it off sooner, press **STOP**.

## SUPER ANTI-SHOCK SYSTEM

Your CD player contains special circuits to overcome sound skipping problems caused by shock or vibration. This means you can carry the CD player anywhere you go or use it in your vehicle. When you turn on the anti-shock system, the CD player continuously saves 40 seconds of music in memory. During a shock or vibration that would normally make a track skip or pause, the CD player plays directly from memory.

To turn on the anti-shock system, press **ANTI-SHOCK**. If the CD player is playing a CD, the sound briefly stops, then the anti-shock symbol appears on the display and the sound continues.



Anti-Shock Icon

**Note:** The CD player consumes additional battery power when you use the anti-shock system. When you use the CD player in a stable location, press **ANTI-SHOCK** again to turn off the anti-shock system to save battery power. The sound briefly stops then the anti-shock symbol disappears.

## AUTOMATIC SEARCH MUSIC SYSTEM (ASMS)

You can use ASMS before or during regular or programmed play (see "Programmed Play" on Page 15) to quickly locate any track on a CD.

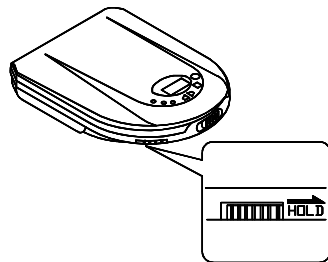
While the CD is stopped, repeatedly press **SKIP ◀** or **SKIP ▶** to move backward or forward to the desired track. Press **PLAY/PAUSE** to play the track.

During play, press **SKIP ◀** to return to the beginning of the current track. Press **SKIP ◀** twice to return to the beginning of the previous track. To move to the beginning of the next track, press **SKIP ▶**.

## LOCKING THE CONTROLS

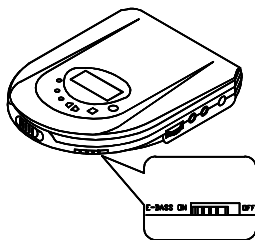
You can protect your CD player from accidental program changes by locking all controls except **OPEN**, **E-BASS**, **ON/OFF** and **VOL**.

To lock the controls, slide **HOLD** in the direction of the arrow. To turn off hold, slide **HOLD** away from the arrow.



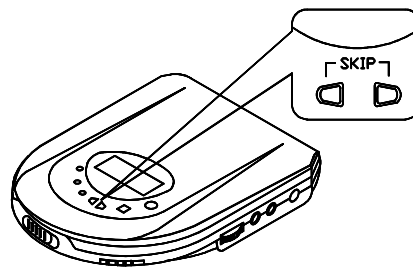
## TURNING E-BASS ON AND OFF

To enhance the bass sound, slide **E-BASS** to **ON**. To set the sound to normal, slide **E-BASS** to **OFF**.



## AUDIBLE SEARCH

To search forward or backward during play, hold down **SKIP ◀** or **SKIP ▶**. The CD plays rapidly and you hear the music at a high speed and low volume. The current track's elapsed time appears on the display.



Release **SKIP ◀** or **SKIP ▶** to resume normal play.

**Note:** If you hold down **SKIP ▶** while the last track is playing, audible stops at the end of the last track. If you hold down **SKIP ◀** during the first track, audible search skips to the beginning of the first track.

## INTRO SCAN

You can set the stereo to play the first 10 seconds of each track on the CD, so you can find the track you want to listen to.

To begin scanning while a CD is playing, repeatedly press **PLAY MODE** until **INTRO** flashes. Intro scan starts after the current track is finished.

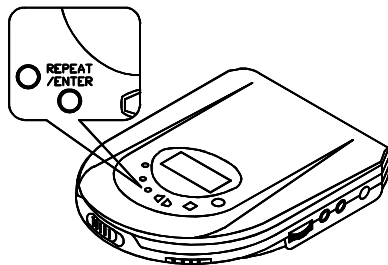
Or, to begin scanning from the first track, stop play (if necessary), repeatedly press **PLAY MODE** until **INTRO** appears, then press **PLAY/PAUSE**.


To return to normal play, repeatedly press **PLAY MODE** until **INTRO** disappears.


**Note:** You can use **SKIP ◀** or **SKIP ▶** to skip through the tracks during scanning.

## REPEAT PLAY


You can repeat a single track on the CD, all tracks on the CD, or a programmed sequence (see "Programmed Play" on Page 15).



To repeat a single track, press **REPEAT/ENTER** once while the desired track is playing.  flashes, and the CD player continuously replays the track.

To repeat all tracks on a CD or in a programmed sequence, repeatedly press **REPEAT/ENTER** until  appears.

When the CD player reaches the end of the CD or the programmed sequence, it returns to the first track and replays all the tracks, and does this continuously.

To cancel repeat play, repeatedly press **REPEAT/ENTER** until  disappears.

## RANDOM PLAY

You can have the CD player play all the tracks once in random order, then automatically stop. To start random play, repeatedly press **PLAY MODE** until the random play icon flashes, then press **PLAY/PAUSE**.

Random  
Play Icon



To start random play from the current track, repeatedly press **PLAY MODE** until the random play icon flashes. Random play begins after the current track plays.

To cancel random play, repeatedly press **PLAY MODE** until the random play icon disappears.

## PROGRAMMED PLAY

You can program up to 22 **Programmed tracks** from the loaded CD **Play Icon** to play in any order you choose, and you can program the same track to play more than once.



Follow these steps to program and play a sequence.

1. While the CD is stopped, repeatedly press **PLAY MODE** until the programmed play icon flashes.
2. Repeatedly press either **SKIP ◀** or **SKIP ▶** to display the number of the first track you want to program.

3. Press **REPEAT/ENTER** to store the selected track number. The selection number advances by one and the track number returns to **00**.
4. Repeat Steps 2 and 3 for each track you want to program, up to 22 tracks.

**Note:** If you try to store more than 22 tracks in memory, the CD player stores them over the first tracks stored.

5. To play the programmed sequence, press **PLAY/PAUSE**. The programmed play icon appears and the first track in the sequence plays.

While the sequence plays, you can use **SKIP ◀** to move to the beginning of the current track.

6. After the last programmed track ends, the CD player stops. To stop the CD before the end of the sequence, press **STOP**.

You can replay, check, or add to the programmed sequence within 30 seconds after play stops. Otherwise, the CD player turns off and clears the programmed sequence.

- *To replay the programmed sequence*, repeatedly press **PLAY/MODE** until the programmed play icon flashes, then press **PLAY/PAUSE**.
- *To check the programmed sequence*, repeatedly press **REPEAT/ENTER**.
- *To add to the end of a programmed sequence*, repeatedly press **PLAY/MODE** until the programmed play

icon flashes, then repeatedly press **REPEAT/ENTER** until track number **00** appears. Repeat Steps 2 and 3 to add the desired tracks to the end of the programmed sequence.

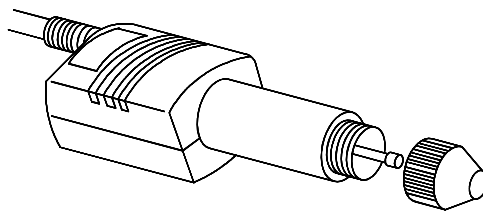
To clear the programmed sequence from memory, press **STOP** twice or open the CD compartment door.

## REPLACING THE DC ADAPTER'S FUSE

If the CD player stops operating, check the fuse in the DC adapter's cigarette-lighter plug. If it has blown, follow these steps to replace it with a 3-amp, 5 × 20 mm, fast-acting fuse (available at your local RadioShack store).

**Caution:** Do not use a fuse with ratings other than those specified here. Doing so might damage your CD player.

1. Carefully unscrew the tip of the cigarette-lighter plug.



2. Remove the old fuse and check it to see if it is blown. If it is blown, replace it with the new fuse.
3. Thread the cigarette-lighter plug's tip back onto the body.



## TROUBLESHOOTING

If you have problems operating your CD player, try these suggestions. If they do not solve the problem, contact your local RadioShack store for assistance.

Problem	Possible Cause	Solution
The CD player does not work.	<b>HOLD</b> is set to the right.	Slide <b>HOLD</b> to the left.
	No power.	Be sure the batteries are not weak.
		Make sure an AC adapter or the DC adapter is properly connected.
		If you are using the DC adapter to power the CD player, check the adapter's fuse. See "Replacing the DC Adapter's Fuse" on Page 16.
A CD is loaded, but the CD player does not start.	The CD is loaded upside-down.	Reload the CD, label side up.
	The CD is dirty or defective.	Clean the CD and reload it, or try a different CD. See "CD Care Tips" on Page 3.
The CD's sound skips.	The CD is dirty or defective.	Clean the CD and reload it, or try a different CD. See "CD Care Tips" on Page 3.
	Vibration is excessive.	Press <b>ANTI-SHOCK</b> .
		Place the CD player in a different location.
	Moisture has condensed on the pickup lens.	Wait 1 hour for the moisture to evaporate.

## CARE AND MAINTENANCE

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Your Optimus CD-3860 Portable Compact Disc Player is an example of superior design and craftsmanship. The following suggestions will help you care for your CD player so you can enjoy it for years.



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



Use and store the CD player 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 player away from dust and dirt, which can cause premature wear of parts.



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



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



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

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

## SPECIFICATIONS

### AUDIO

Frequency Response .....	20–20,000 Hz ( $\pm 3$ dB)
Dynamic Range .....	80 dB
Signal-to-Noise Ratio .....	80 dB
Harmonic Distortion at 1 kHz .....	0.15%
Separation at 1 kHz .....	55 dB
Wow/Flutter .....	Not Measurable
Earphones Output (10% THD at 32 Ohm) .....	15 mW + 15 mW
Line Output .....	0.6 V

### SIGNAL FORMAT

Sampling Frequency .....	44.1 kHz
Oversampling .....	8 Times
Quantization Number .....	16-Bit Linear Channel
Transmission Bit Rate .....	4.3218 Mb/Second
Signal-Processing Rate .....	352.8 kHz

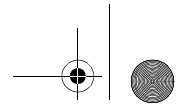
### PICK-UP

Tracking System .....	1-Beam Tracking Servo Type
Object Lens Drive System .....	2-Dimensional Parallel Drive
Optical Source .....	Semiconductor Laser
Wavelength .....	780 nm

### GENERAL

Power Requirements .....	DC 3V Two AA Alkaline or Rechargeable Ni-Cd Batteries (Not Supplied) DC Adapter (Supplied) or AC Adapter (Not Supplied)
Power Consumption .....	8 W
Battery Life (EIAJ Method) .....	8 Hours
Dimensions (HWD) .....	$1 \times 5^{1/16} \times 5^{5/8}$ Inches (25.2 $\times$ 131 $\times$ 144 mm)
Weight (Without Batteries) .....	9.5 oz (270 g)
Included Accessories .....	Y-Cable, CD-to-Cassette Adapter, and DC to DC Adapter

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



### Limited One-Year Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year 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.

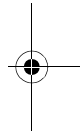
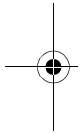
This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs 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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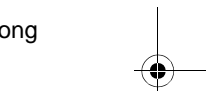
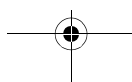
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