42-5077.fm Page 1 Thursday, August 12, 1999 1:12 PM

Cat. No. 42-5077

OWNER'S MANUAL

Please read before using this equipment.

CD-3720

Portable Compact Disc Player

with 10 Second Digital Anti-Shock System

OPTIMUS®

FEATURES

Your Optimus CD-3720 Portable Compact Disc Player uses the latest digital audio technology to give you the clear 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 portable, private listening.

The CD player's features include:

Hyper Digital Anti-Shock System (Hyper DAS^2) — rapidly scans 10 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.

22-Track Programmable Memory — lets you program and play up to 22 tracks in any sequence you choose.

Auto Power Off — automatically turns the CD player off, to help preserve battery life.

Bass Boost System — creates a fuller bass sound.

Long Battery Life — you can operate the CD player up to 7 hours with fresh alkaline batteries.

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

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Built-In Battery Charger — recharges special rechargeable nickel-cadmium batteries inside the player when you use an AC or DC adapter.

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

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.

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

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

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

Programmed Play — lets you program up to 22 tracks from the loaded CD to play in any order you choose.

Pause — lets you temporarily stop play.

Hold — helps prevent accidentally changing the CD player's settings and preserves battery life by locking most controls when you turn off the CD player.

5- or 3-Inch CD Compatible

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

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

We recommend you record your CD player's serial number here. The number is inside the battery compartment.

Serial Number _____

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.

42-5077.fm Page 5 Thursday, August 12, 1999 1:12 PM

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.

42-5077.fm Page 6 Thursday, August 12, 1999 1:12 PM

CONTENTS

Powering the CD Player 8
Using Batteries 8
Installing Batteries 9
Recharging Nickel-Cadmium Batteries 10
Using AC Power 12
Using Vehicle Battery Power 14

Connections 16
Connecting an Earphone/Headphones 16
Listening Safely 17
Traffic Safety 17
Connecting Amplified Speakers 18
Connecting to a Home Audio System 18
Connecting to an Autosound System 19

Operation 21
Loading a CD 21
Playing a CD 22
Turning E-Bass On and Off 23
Digital Anti-Shock System 24
Locking the Controls 25
Automatic Search Music System (ASMS) 25
Audible Search 26
Intro Scan 26
Repeat Play 27
Random Play 28
Programmed Play 28

Troubleshooting 30

42-5077.fm Page 7 Thursday, August 12, 1999 1:12 PM

Care and Maintenance 32
CD Care Tips 33

Specifications 35

POWERING THE CD PLAYER

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

- two AA alkaline batteries
- two special rechargeable AA nickel-cadmium batteries
- two standard rechargeable AA nickel-cadmium batteries
- vehicle battery power using an optional DC adapter
- standard AC power using an optional AC adapter

Note: Connecting an AC or DC adapter to the CD player when non-rechargeable batteries are installed disconnects the batteries.

USING BATTERIES

You can power the CD player from two AA alkaline batteries. For the best performance and longest life, we recommend alkaline batteries such as RadioShack Cat. No. 23-557. You can also use the following types of rechargeable nickel-cadmium batteries to power the CD player:

- **Two special AA rechargeable nickel-cadmium batteries** (RSU No. 11672508, available through your local RadioShack store).

  You can use an AC or DC adapter to recharge these batteries while they are installed in the battery compartment.

- **Two standard AA rechargeable nickel-cadmium batteries** (such as Cat. No. 23-125).

You cannot charge standard nickel-cadmium rechargeable batteries inside the CD player's battery compartment, but you can charge them using an external battery charger such as Cat. No. 23-133 (not supplied).

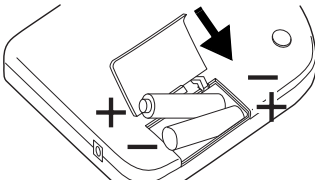
Note: All types of nickel-cadmium batteries come fully discharged. Be sure to fully charge the batteries before you use them the first time.

Installing Batteries

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.

Follow these steps to install the batteries.



1. Slide the battery compartment cover in the direction of the arrow, then gently pull up on the cover to open it.

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

2. Place two AA batteries in the compartment and on top of the attached ribbon, as indicated by the polarity symbols (+ and –) marked inside.
3. Close the cover.

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

Cautions:

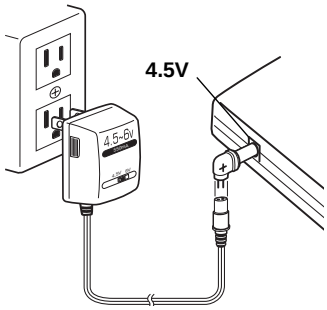
- Dispose of old batteries promptly and properly. Do not burn or bury them.
- Always remove or recharge old or weak batteries. Batteries can leak chemicals that can destroy electronic parts.
- If you do not plan to use the CD player with batteries for a month or more, or if you plan to use only an AC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

Recharging Nickel-Cadmium Batteries

If you connect an AC or DC adapter to the CD player, you can set the CD player to charge special nickel-cadmium batteries while they are inside the battery compartment.

Caution: Use only an AC adapter or DC adapter that meets the specifications in “Using AC Power” on Page 12 or “Using Vehicle Battery Power” on Page 14 to recharge the batteries in the CD player. Other adapters could damage your CD player or the batteries.

To charge special nickel-cadmium batteries in the CD player, simply connect an AC or DC adapter to your CD player (see “Using AC Power” on Page 12 or “Using Vehicle Battery Power” on Page 14). BATT CHARGE on the front of the CD player lights while batteries are installed and charging.



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

Charging Tips/Facts

- It takes about 15 hours to charge new or fully discharged nickel-cadmium batteries (special or standard) in the CD player while it is not being used to play CDs. Subsequent charges take 12–15 hours.
- You can play a CD while recharging the special nickel-cadmium batteries. However, this will cause the batteries to recharge more slowly.
- Under normal usage conditions, nickel-cadmium batteries can be recharged about 500 times.

- Fully discharge the batteries occasionally by playing the CD player until it no longer plays. Then fully recharge the batteries. This helps maintain the batteries' full charging capacity.
- **Important:** This CD player 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 curb-side collection, drop-off boxes at retailers such as your local RadioShack store, recycling collection centers, and mail-back programs.

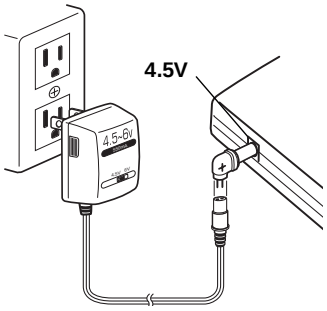
Using AC Power

You can power the CD player from a standard AC outlet using an optional AC adapter, such as Cat. No. 273-1664.

Cautions:

- You must use an AC adapter that supplies 4.5 volts and delivers at least 550 mA. Its center tip must be set to positive and its plug must fit the CD player's **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.
- Always plug the AC adapter into the CD player before you plug it into the AC outlet. Always unplug the AC adapter from the AC outlet before you unplug it from the CD player.

Follow these steps to connect an AC adapter to the CD player.



1. Plug the AC adapter's 5.5 mm outer diameter/2.1 mm inner diameter barrel plug into the cable so it reads + TIP.
2. Set the AC adapter's voltage switch to 4.5V.
3. Connect the AC adapter's barrel plug to the **4.5V** jack on the back of the CD player.
4. Plug the AC adapter's other end into a standard AC outlet.

Caution: The CD player automatically disconnects battery power when you connect an AC adapter, unless you are using special rechargeable nickel-cadmium batteries. Even though the CD player automatically does this, remove the special nickel-cadmium batteries to prevent overcharging if you plan to use the CD player with AC power for an extended period (8 hours or more).

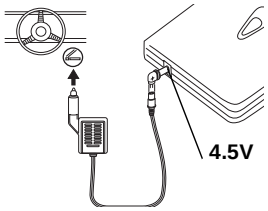
Using Vehicle Battery Power

You can power your CD player from your vehicle's cigarette-lighter socket using an optional 4.5 volt DC adapter, such as Cat. No. 273-1801.

Cautions:

- You must use a DC adapter that supplies 4.5 volts and delivers at least 550 mA of automotive power. Its center tip must be set to positive and its plug must fit the CD player's **4.5V** jack. Using an adapter that does not meet these specifications could damage the CD player or the adapter.
- Always plug the DC adapter into the CD player before you plug it into the cigarette-lighter socket. Always unplug the DC adapter from the cigarette-lighter socket before you unplug it from the CD player.

Follow these steps to connect a DC adapter to the CD player.



1. Plug the DC adapter's 5.5 mm outer diameter/2.1 mm inner diameter barrel plug into the cable so it reads + TIP.

42-5077.fm Page 15 Thursday, August 12, 1999 1:12 PM

2. Set the DC adapter's voltage switch to 4.5 volts.
3. Connect the DC adapter's barrel plug to the **4.5V** jack on the back of the CD player.
4. 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.

CONNECTIONS

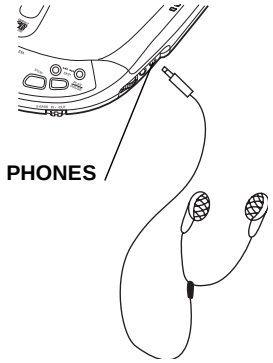
You can listen to your CD player by connecting optional stereo headphones or amplified speakers to the CD player's **PHONES** jack, or by connecting a home audio or autosound system to the CD player's **LINE OUT** jack.

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.

You can mount your CD player in your car using a mounting bracket. Your local RadioShack store has a complete line of mounting kits.

CONNECTING AN EARPHONE/HEADPHONES

For private listening, plug a pair of stereo earphones or headphones with a 1/8-inch (3.5-mm) plug into the **PHONES** jack on the CD player.



42-5077.fm Page 17 Thursday, August 12, 1999 1:12 PM

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

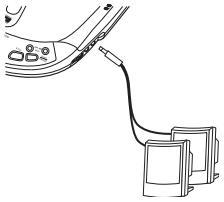
Do not wear earphones or headphones while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

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

42-5077.fm Page 18 Thursday, August 12, 1999 1:12 PM

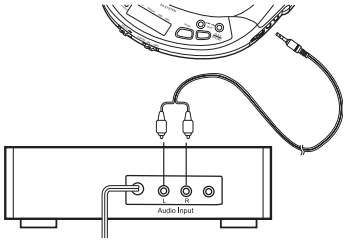
CONNECTING AMPLIFIED SPEAKERS

You can listen to your CD player through optional amplified speakers (such as Cat. No. 40-1387). Plug the speaker cable's 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 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.

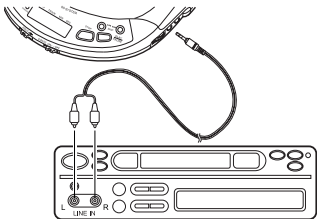


42-5077.fm Page 19 Thursday, August 12, 1999 1:12 PM

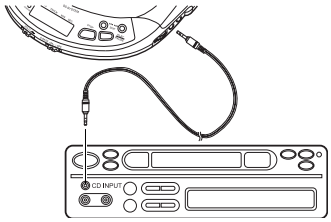
CONNECTING TO AN AUTOSOUND SYSTEM

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

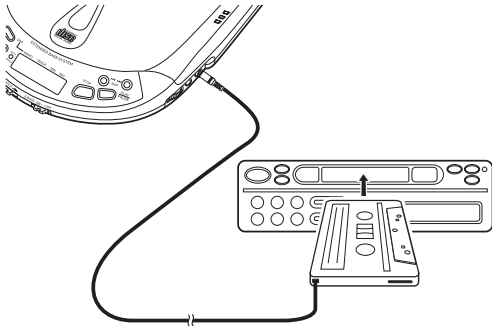
- If your autosound system has LINE IN jacks, connect the supplied Y-cable's 1/8-inch (3.5-mm) plug to the CD player's **LINE OUT** jack. Then connect the Y-cable's phono plugs to your autosound system's LINE IN input jacks.



- If your autosound system has a CD input jack, connect one end of a 1/8-inch (3.5-mm) stereo patch cable (such as Cat. No. 42-2387, not supplied) to the CD player's **LINE OUT** jack. Then connect the other end to your autosound system's CD INPUT jack.



- If your autosound system has a cassette deck, connect an optional CD-to-cassette adapter's plug (such as Cat. No. 12-1951) to the CD player's **PHONES** jack. Then insert the adapter's other end into your cassette deck just like a standard cassette.

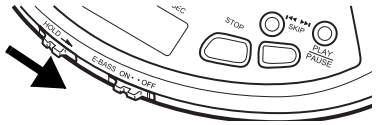


OPERATION

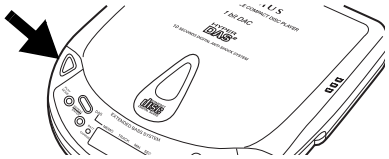
LOADING A CD

Caution: To help prevent dust from entering the CD player, always keep the CD compartment cover closed except to load or unload CDs.

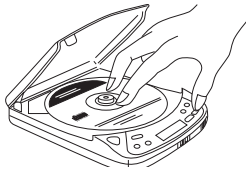
1. Slide **HOLD** in the direction of the arrow marked next to **HOLD**.



2. Press **PUSH OPEN** and lift the CD compartment cover.



3. Carefully place a CD, label side up, over the center hub inside the CD compartment, and gently press the center of the CD until it snaps down onto the hub.

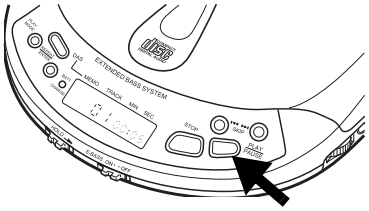


4. Close the compartment cover.

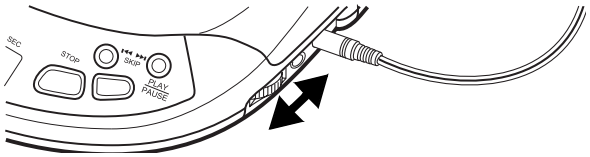
PLAYING A CD

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

Press **PLAY/PAUSE** ►❚❚. The CD player automatically turns on and **00**, the total number of tracks on the CD, and the CD's playing time briefly appear on the display. Then the current track number and the elapsed time of the current track appear, and Track 1 begins to play.



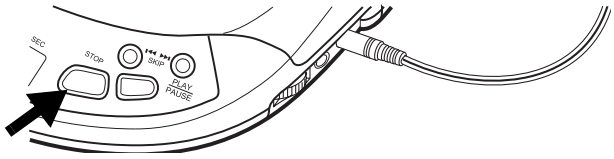
If you connected earphones, headphones, or amplified speakers to the CD player's **PHONES** jack, turn **VOLUME** on the CD player to adjust the volume.



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.

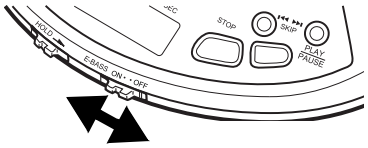
To temporarily stop play, press **PLAY/PAUSE ►II**. The current track's elapsed time flashes. To resume play, press **PLAY/PAUSE ►II** again.

When the last track finishes playing, the CD stops and **00** appears for a few seconds. Then the CD player automatically turns off. To turn it off sooner, press **STOP**.



TURNING E-BASS ON AND OFF

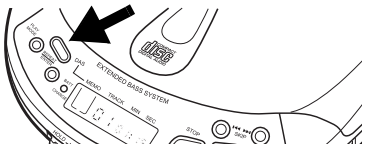
To enhance the bass sound, slide **E-BASS** to **ON**. To turn bass enhancement off, slide **E-BASS** to **OFF**.



DIGITAL 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 10 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 **DAS**. If the CD player is playing a CD, the sound briefly stops and an icon appears under MEMO.



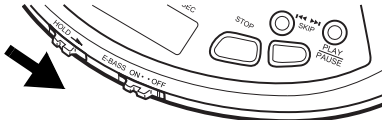
After a few seconds, the CD player saves music in memory, adding one indicator inside the icon for each second of music saved. The icon looks like this when it is full:

To turn off digital anti-shock, press **DAS** again. The sound briefly stops and the icon disappears.

Note: The CD player consumes extra battery power when you use the anti-shock system. When you use the CD player in a stable location, repeatedly press **DAS** until the icon disappears to conserve battery power.

LOCKING THE CONTROLS

To protect your CD player from accidental program changes, slide **HOLD** in the direction of the arrow marked next to **HOLD** to lock all controls except **PUSH OPEN**, **VOLUME** (and **HOLD** itself)**.**



To unlock the controls, slide **HOLD** in the opposite direction.

AUTOMATIC SEARCH MUSIC SYSTEM (ASMS)

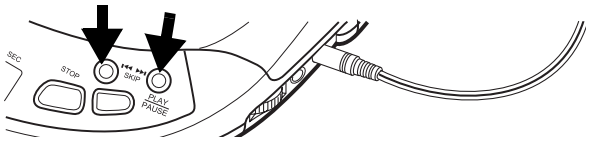
You can use ASMS before or during regular or programmed play (see “Programmed Play” on Page 29) to quickly locate any track on a CD.

While the CD is temporarily stopped, repeatedly press ⏮ or ⏭ to move backward or forward to the desired track. Press **PLAY/PAUSE** ⏯ to play the track.

During play, press ⏮ to return to the beginning of the current track. Press ⏮ twice to return to the beginning of the previous track, then repeatedly press ⏮ to move through the previous tracks or ⏭ to move through the next tracks. To move to the beginning of the next track, press ⏭.

AUDIBLE SEARCH

To search forward or backward during play, hold down ⏭ or ⏮**.** 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 the button to resume normal play.

Note: If you hold down ⏭ while the last track is playing, audible search starts again at the beginning of that same track. If you hold down ⏮ during the first track, audible search stops at the beginning of Track 1.

INTRO SCAN

You can set the stereo to scan forward and 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, press **PLAY MODE**. **Intr** appears. Then press **PLAY/PAUSE ►II**. The first track number and **--:00** appear and intro scan starts from the first track on the CD.

To return to normal play, press **PLAY/PAUSE ►II**. The current track's elapsed time appears.

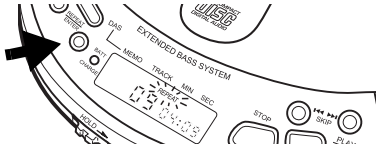
Notes:

- Intro scan plays the tracks in the programmed order if you have programmed a sequence (see "Programmed Play" on Page 29).
- You can use I◄◄ and ►►I to skip through the tracks during intro scan.

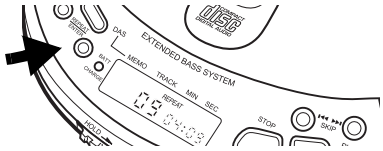
REPEAT PLAY

You can repeat a single track or all tracks on the CD.

To repeat a single track, press **REPEAT/ENTER**. **REPEAT** flashes. The CD player continuously replays the track.



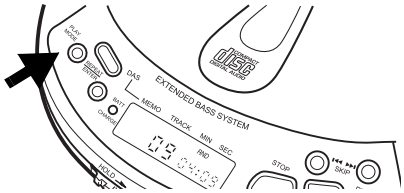
To repeat all tracks on a CD, repeatedly press **REPEAT/ENTER** until **REPEAT** appears. The CD player continuously replays the CD.



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

RANDOM PLAY

In random play, the CD player plays all the tracks once in random order, then automatically stops. To start random play at any time, repeatedly press **PLAY MODE** until **RND** appears.



Note: If you select random play during programmed play, the CD player stops the programmed sequence and starts random play of all tracks in the sequence.

To cancel random play, repeatedly press **PLAY MODE** so **RND** disappears.

42-5077.fm Page 29 Thursday, August 12, 1999 1:12 PM

PROGRAMMED PLAY

You can program up to 22 tracks on a CD 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. Press **PLAY/PAUSE** ►II to turn on the CD player.
2. Press **PLAY MODE** twice. **PGM** flashes.
3. Repeatedly press ►►I or I◄◄ to display the number of the first track you want to program.
4. Press **REPEAT/ENTER** to store the selected track number and go to the next selection. The selection number advances by one and the track number returns to **00**.
5. Repeat Steps 3 and 4 for each track you want to program, up to 22 tracks.
6. To play the programmed sequence, press **PLAY/PAUSE** ►II. **PGM** appears and the first track in the sequence plays.
7. To cancel programmed play, press **PLAY MODE**. **PGM** disappears.

42-5077.fm Page 30 Thursday, August 12, 1999 1:12 PM

TROUBLESHOOTING

If your CD player is not working properly, follow these suggestions to see if you can eliminate the problem. If these suggestions do not work, contact your local RadioShack store for assistance.

Problem	Possible Cause	Suggestion
The CD player does not work.	**HOLD** is set in the direction of the arrow.	Slide **HOLD** in the opposite direction.
	No power.	Be sure the batteries are not weak, or make sure an AC adapter or DC adapter is properly connected.
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 33.
Sound from a CD skips.	The CD is dirty or defective.	Clean the CD and reload it, or try a different CD. See “CD Care Tips” on Page 33.
	Vibration is excessive.	Press **DAS.**
		Place the CD player in a different location.

42-5077.fm Page 31 Thursday, August 12, 1999 1:12 PM

Problem	Possible Cause	Suggestion
Sound from a CD skips (continued)	Moisture has condensed on the pickup lens.	Wait 1 hour for the moisture to evaporate.

CARE AND MAINTENANCE

Your Optimus CD-3720 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.

Always keep the charging terminals on the rechargeable batteries clean. Use a cotton swab dipped in alcohol to clean the terminals.

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

CD CARE TIPS

- Do not place anything but a CD in the disc tray. Doing so can damage the drive mechanism.
- During playback, a severe shock or jolt could make the CD's rotation speed change suddenly and produce some noise. This is not a malfunction.
- A scratch on the CD's surface can make the CD skip or stop playing. If the CD gets scratched, use Scratch 'n Fix (Cat. No. 42-127) to repair the scratch.
- Always handle a CD by the edges and 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

42-5077.fm Page 34 Thursday, August 12, 1999 1:12 PM

information. To clean the CD, use a CD cleaner kit (such as Cat. No. 42-226).

- Keep CDs dry. A water drop can act as a lens and affect the laser beam focus.

42-5077.fm Page 35 Thursday, August 12, 1999 1:12 PM

SPECIFICATIONS

Frequency Response (±3 dB) ..... 20–20,000 Hz

Line Output ..... 0.6 V

Sampling Frequency ..... 44.1 kHz

Oversampling ..... 4 Times

Wavelength ..... 780 nm

General

Power Requirements ..... DC 3V; Two AA Size Alkaline or Special Rechargeable Nickel-Cadmium Batteries (Not Supplied), Optional AC Adapter (273-1664), or Optional DC Adapter (273-1801)

Power Consumption ..... 8 W

Battery Life (EIAJ Method) ..... 7 Hours

Dimensions (HWD) ..... $1\,^{9}/_{64} \times 5\,^{23}/_{64} \times 6\,^{11}/_{64}$ Inches (29 × 136.5 × 157 mm)

Weight (without batteries) ..... 9.7 oz (275 g)

Weight (with batteries) ..... 11.5 oz (326 g)

Included Accessory ..... Y-Cable

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.

RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

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