Panasonic

8X PORTABLE CD-ROM Player

Model No. KXL-783M

Operating Instructions

Please read this manual before using and store in a safe place for future reference.

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Thank you for purchasing the Panasonic 8X PORTABLE CD-ROM Player KXL-783M.

WARNING

- The power source voltage of the AC adaptor is listed on the nameplate. Plug the AC adaptor only into an outlet with the proper voltage.
- To prevent fire or shock hazard, do not expose this product to rain or any type of moisture.

CAUTION

- When you operate this equipment, the mains socket-outlet should be near the equipment and should be easily accessible.
- To prevent the SCSI interface connector from static electricity damage, before you touch it, discharge any static electricity from your hands by touching a grounded metal surface, such as the screw on the plate cover of an electrical outlet.

CAUTION FOR LASER

This product utilizes a laser.
Use of control, adjustment or performance of procedures other than those specified herein may result in hazardous radiation exposure.
Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

Laser diode properties	
Material	GaAlAs
Laser output	Less than 52.65 μW
Wave length	790 nm
Emission duration	Continuous

(This output is the value measured at the distance of 200 mm from the objective lens surface.)

The serial number of this unit may be found on the label located at the bottom of the unit. Write this number below and keep this book along with your proof of purchase to serve as a permanent record of your purchase or for future reference.
For warranty service you may be required to show your proof of purchase records.

MODEL NO. **KXL-783M** NAME OF DEALER _____

SERIAL NO. _____ DATE OF PURCHASE _____

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FOR USERS IN UNITED STATES ONLY

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the booklet "Something About Interference" available from FCC local regional offices helpful.

FCC Warning: To assure continued FCC emission limit compliance, the user must use only the recommended shield interfacing cable when connecting to a host computer. Also, any unauthorized changes or modifications to this equipment would void the users authority to operate this device.

- Certain audio features of this product manufactured under a license from Desper Products, Inc.
  Spatializer® and the circle-in-square device are trademarks owned by Desper Products, Inc.
- FWB, CD-ROM ToolKit™, CDT Remote™ and the FWB logo are trademarks of FWB Software, LLC.
- Apple, PowerBook, Macintosh, QuickTime, AppleLink, Finder and Apple logo are trademarks of Apple Computer, Inc.
- Photo CD is a trademark of Eastman Kodak Company.
- Adobe Photoshop is a trademark of Adobe System, Inc., which may be registered in certain jurisdictions.

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Specifications given in these Operating Instructions are subject to change without notice.

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■ *Features:*

- ***8X external CD-ROM drive (transfer rate Max. 1200 KB/s with AC adaptor).***
- ***Operates on a compact lightweight universal voltage AC adaptor*** (☞ P. 9)***, optional rechargeable battery (KXL-D30)*** (☞ P. 27) ***or six (6) "AA" size alkaline batteries (not supplied)*** (☞ P. 30).
- ***Can be connected to a PowerBook with supplied SCSI cable*** (☞ P. 10).
- ***Can be connected to a Desktop Macintosh with purchase of SCSI cable (D-sub25 pin ↔ half-pitch 50 pin) for Macintosh*** (☞ P. 11).
- ***Both CD-ROM and audio CD can be played when connected to your Macintosh*** (☞ P. 19).
- ***Can be used as a portable personal audio CD player*** (☞ P. 17).
- ***Supports CD-ROM, CD-ROM XA, CD-DA (Audio CD), Photo CD (Multisession compatible), CD Extra.***
- ***SPATIALIZER delivers 3-Dimensional stereo surround sound. Expands the sound from two conventional speakers.***
- ***PC sound can be heard through the built-in stereo speakers of the player with the supplied stereo audio cable connected*** (☞ P. 25).
- ***SCSI-2 Software Command compatible.***
- ***Can be used as Boot Device-System Startup from CD-ROM*** (☞ P. 21).

Important:

■ Please use CD-ROMs with the marking below.

■ Please use audio CDs with the marking below.

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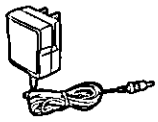
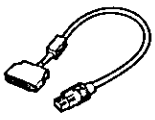
■ Accessories

Make sure that the following accessories are included with the player. If anything is missing, contact your dealer immediately.



AC adaptor(☞ P. 9)
The Model No. of AC adaptor is written on the bottom of the player.

Setup disk
(☞ P. 12, 13)
[Before opening the packet, please read P. 40.]

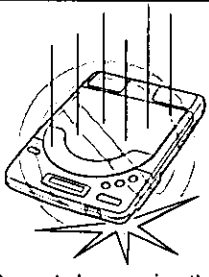


SCSI cable
(for PowerBook)
(☞ P. 10)

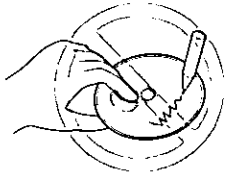
Audio cable
(☞ P. 25)

- Operating instructions
- Warranty card

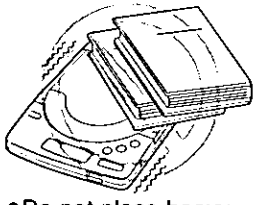
■ Precautions



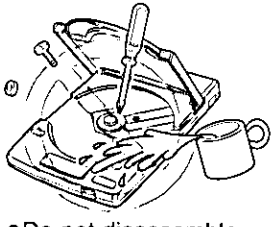
- Do not drop or jar the player.



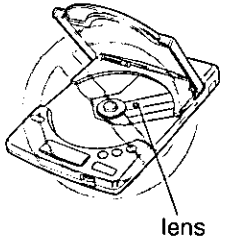
- Do not scratch or smudge the surface of CD.



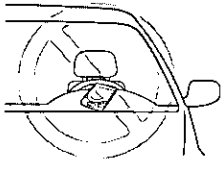
- Do not place heavy objects on the player.
- Do not shake or subject to intense vibration.



- Do not disassemble the player.
- Do not spill liquid.



- Do not touch the lens.



- Do not expose the player to direct sunlight or extreme heat. Especially do not leave it in a hot automobile.

- Keep disc cover closed to protect from dust.
- Do not play CD-ROM/audio CD while transporting.
- Do not use near any appliance that may cause vibration.

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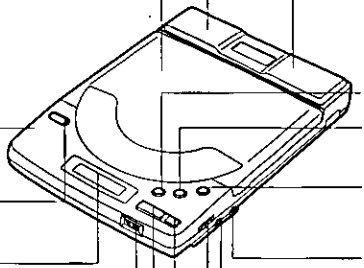
■ Top/Side view



Built-in speakers (☞ P. 17, 25)

Disc cover (☞ P. 16)

LOCK switch (☞ P. 16)
Locks the disc cover by moving the Lock switch toward the rear of the player.

OPEN button (☞ P. 16)
Opens the disc cover.

Display (☞ P. 8)

VOLUME control (☞ P. 17)
Adjusts the volume of the built-in speakers or headphones (not supplied) attached to the PHONES jack (0~10).

▶II/CHG (PLAY/PAUSE/CHARGE button)
Starts/pauses audio CD playback (☞ P. 17, 18) or charges the optional rechargeable battery by pressing this button (☞ P. 28).

MODE button (☞ P. 18)

I◀◀ (Reverse skip/search button) (☞ P. 18)

▶▶I (Forward skip/search button) (☞ P. 18)

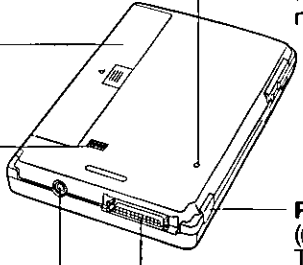
LINE IN jack (☞ P. 25)
Connects the supplied audio cable.

PHONES jack [🎧] (☞ P. 17, 25)
Connects your headphones or external speaker system (not supplied).

SPATIALIZER effect switch (☞ P. 17, 25)
Adjusts the 3-D sound effect level.

■ (STOP button) (☞ P. 16, 18, 19)

■ Rear/Bottom view



Battery cover (☞ P. 27, 29, 30)

DIP switch (☞ P. 37)
Sets the SCSI ID number. Sets the terminator ON or OFF.

DC IN jack [DC IN 13V ◇-⊙-◇] (☞ P. 9)

RESET switch (☞ P. 31)
Press this if buttons/switches do not function.

POWER switch [POWER ⏻/I] (☞ P. 17, 19)
Turns the power on/off.

SCSI interface connector [◇ SCSI]
Connects the SCSI cable (☞ P. 10, 11).

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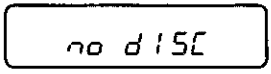
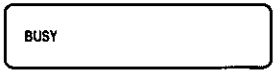
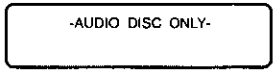
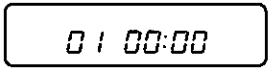
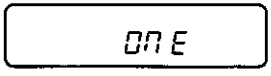
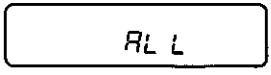
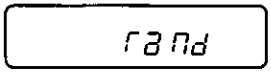
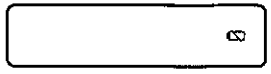
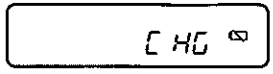
■ *Display messages*

Message/Indication	Description
	The disc cover is open.
	When CD-ROM is inserted, a message "on" is displayed. While CD-ROM or audio CD is first being recognized, "on" blinks.
	CD is not inserted, or the inserted CD is not recognized because either the CD is placed with the label side facing down, or it is damaged, dirty, wet, etc.
	When CD-ROM data is being transferred, a blinking message "BUSY" appears.
	With a CD-ROM (Data CD) inserted in the player, if you press ▶II/CHG, ⏮, ⏭ or MODE, a blinking message "AUDIO DISC ONLY" appears. These buttons function only for stand alone audio CD playback.
	●Displayed when an audio CD is recognized. ●■ is pressed when an audio CD is being played on the player.
	Pressing MODE changes the audio CD playback mode. This button functions only for stand alone audio CD playback. The modes are outlined below. [ONE] (Repeats one track) → [ALL] (Repeats all tracks) → [rand] (Repeats at random) → (Normal mode) → [ONE]
	
	
	When the battery is low, this blinking indication appears.
	This blinking indication appears while the rechargeable battery (option) is being charged.

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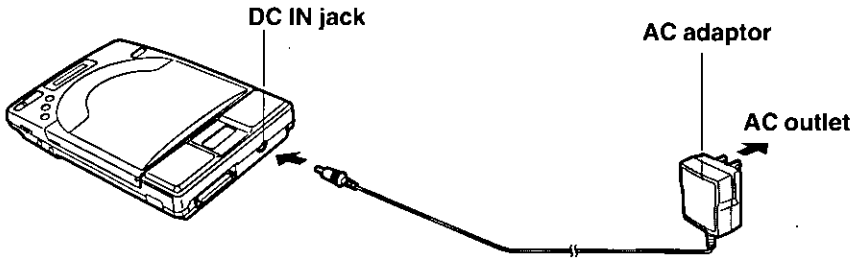
Connecting the AC adaptor

Connect the supplied AC adaptor.



Caution:

- Use only the supplied AC adaptor, since other adaptors could damage the player.

Note:

- If the player is not going to be used for an extended period, unplug the AC adaptor from both the player and AC outlet to save power consumption. (Approximately 1 W of power is consumed when the player is OFF and the AC adaptor is connected with 120 V outlet.)

■ *Power Save Function:*

The player enters the Power Save mode under the following conditions to save power. While in the lower consumption mode the laser and spindle motor turn off.

- When using with Macintosh, and no command is sent to the player from the Macintosh for more than 4 minutes. (The player automatically re-activates when it receives a command from the Macintosh.)
- When using the player independently, the player is paused, and no button of the player is pressed for more than 4 minutes. (The player automatically re-activates when a button on the player is pressed.)

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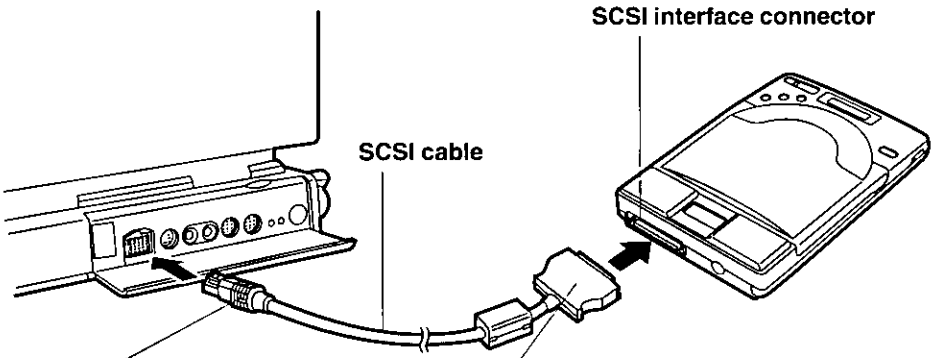
Connecting the Player to Macintosh

For PowerBook

Note:
- Use only the supplied SCSI cable with this player.

1 **Make sure both the player and the PowerBook are off.**

<Example>

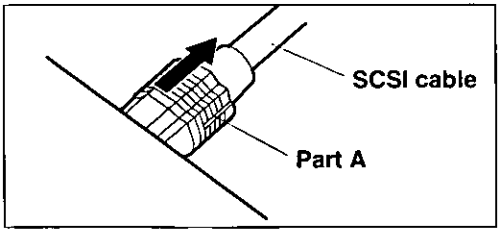


2 **Connect one end of the SCSI cable to your PowerBook.**

3 **Connect the other end of the SCSI cable to the Player's SCSI interface connector.**

Note:
- Make sure that the terminator is set to ON (☞ P. 37).

■ *Disconnecting SCSI cable from PowerBook:*



Hold the part A of the SCSI cable and pull it outward.

Note:
- Do not pull on the SCSI cable.

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For Desktop Macintosh

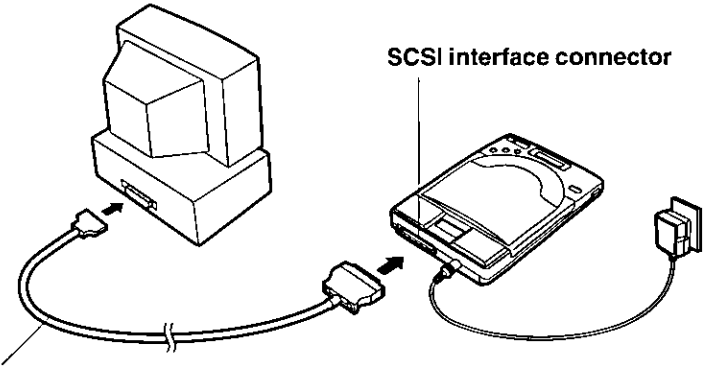
For connection, a commercial SCSI cable for Macintosh is required.

Cautions for a SCSI cable:

- Use a shielded SCSI cable of 1 m (3.2 ft.) or shorter.
- Plug D-Sub25 pin end into Desktop Macintosh and the half-pitch 50 pin end into the player.

First make sure both the player and the Desktop Macintosh are off.

<Example>



SCSI cable
(not supplied)

Note:

- Make sure that the terminator is set to ON (☞ P. 37).

■ *Daisy chain connection:*

You can connect this player to other SCSI devices (up to seven devices). Make sure that each SCSI device has different SCSI ID number.
For the setting of SCSI ID number and terminator of this player, refer to "SCSI ID Number and Terminator Setting" (☞ P. 37).
Since the player has only one SCSI connector, it must be the last device in the daisy chain. In this case, set the terminator to ON.

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Before installing software

To use the player with your Macintosh, you must install driver software on your Macintosh. **Make sure that you have connected the player to your Macintosh, then turn on the player and your Macintosh.**

System requirement

The Setup disk can be used only in Macintosh with a 3.5" floppy disk drive.
Hardware and Software requirements are:

- Macintosh Plus or later
- System 6.0.4 or later (System 7 or later is recommended)
- 4 MB of RAM or greater (More is helpful)
- Disk caching requires 1.5 MB of free contiguous hard disk space (More is helpful)

Making back-up copy

Before installation, it is recommended that you make a back-up copy and store the original in a safe place. To make a back-up copy, refer to your Macintosh manual.

Disabling old CD-ROM device driver

Before installation, you must disable any previously installed CD-ROM device driver software on your Macintosh to load and activate this software smoothly.
To disable Apple's or any third-party device driver, simply drag the file from the System folder and restart your Macintosh.

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Installation

Notes:

- Before proceeding with the installation, restart your Macintosh with all Extensions off, making sure to disable any virus protection software.
- The installation will place Foreign File Access, Audio CD Access, High Sierra File Access, and ISO 9660 File Access into the Extensions Folder inside your System Folder. If these files have already been placed into the Folder, they will be re-written.

1 **Insert the supplied Setup disk into the floppy drive.**

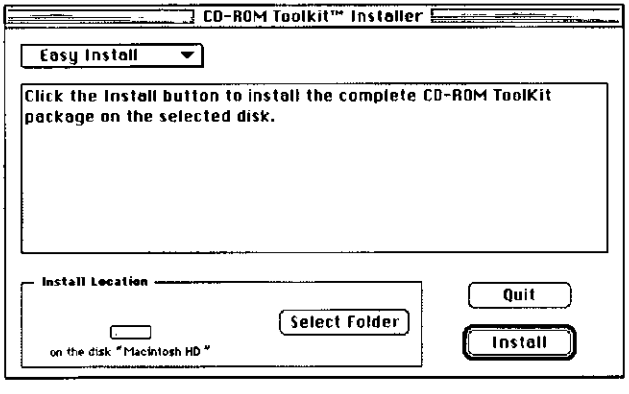
The CD-ROM ToolKit window will automatically appear.
"Read Me for Panasonic" File describes the information which is not mentioned in this manual. Please read it when it is necessary.

2 **Double click the "CD-ROM ToolKit™ Installer" icon.**

The CD-ROM ToolKit Installer dialog will appear.

3 **Click [Continue].**

The following screen will appear.



Easy Install, **Custom Install** or **Remove** can be selected.
Click [Easy Install ▼] and select which you want.

Easy Install . . . . . All files relating to CD-ROM ToolKit that on the Setup disk will be installed.
Custom Install . . Only the files you specify will be installed.
Remove . . . . . Any installed CD-ROM ToolKit will be removed.
[Select Folder] . . A destination folder for CD-ROM ToolKit can be specified.
[Quit] . . . . . Installation will be stopped.

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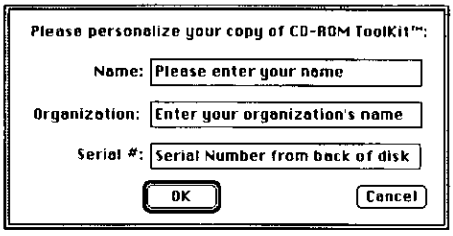
4 **Click [Install].**
The following screen will appear.



5 **Personalize CD-ROM ToolKit if you are running it for the first time.**
Name, Organization and Serial # "M53006585" must be entered.

6 **Click [OK].**
The following message will appear.

If you click [Continue], return to "CD-ROM ToolKit™ Installer" screen (☞ P. 13).

7 **Click [Quit].**

8 **Restart your computer.**
The original Setup disk will be ejected automatically.

Note:
- Store the original Setup disk in a safe place.

9 **Open the Control Panel from Apple ( ) Menu.**

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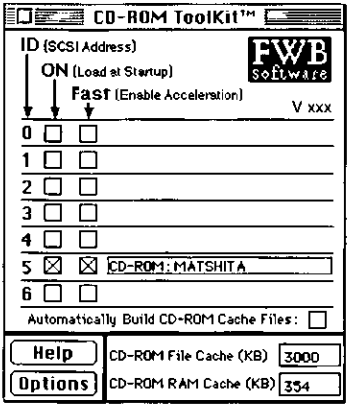
10 Double click the "CD-ROM ToolKit™" icon.

(If you are using System 6.0.x click "CD-ROM Tool..." icon.)
The CD-ROM ToolKit Control Panel will appear.
Confirm that the check box next to SCSI ID number of this player is on. The factory setting of SCSI ID number of this player is set to 5.

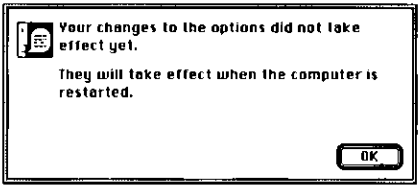


☐ : OFF
☒ : ON

For detailed information about CD-ROM ToolKit Control Panel, refer to "Details of CD-ROM ToolKit" (☞ P. 26).

11 Click the close box.

The following message will appear.



12 Click OK.

Confirmation of proper driver installation

1 Restart your Macintosh.

2 Insert a CD into the player(☞ P. 16).

- If the CD icon is displayed, the driver has been installed properly.
- If the CD icon is not displayed, please refer to the "Troubleshooting" (☞ P. 31).

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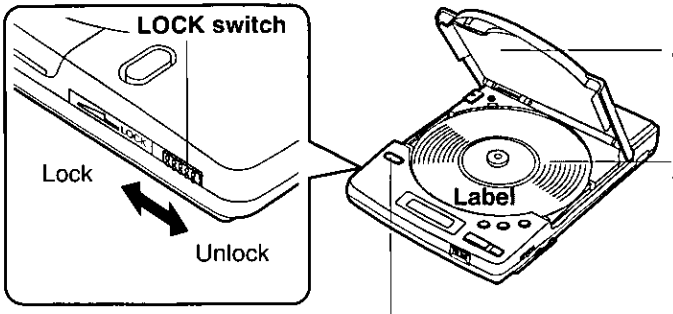
Inserting/Removing a CD

Inserting a CD

Make sure that the LOCK switch is not moved toward the rear of the player.



3 **Close the disc cover.**

2 **Place a CD onto the disc spindle.**
Press on the center of a CD until it locks onto the spindle.

1 **Press OPEN to open the disc cover and then raise it.**

Note:

- When transporting the player, remove the CD and move the LOCK switch toward the rear of the player, otherwise the disc cover may open and the player or the CD could get damaged.

Removing a CD

Make sure that a blinking message "BUSY" does not appear on the player's display, and the LOCK switch is not moved toward the rear of the player.

2 **After the CD stops spining, press OPEN to open the disc cover and then raise it.**

4 **Close the disc cover.**

3 **Carefully remove the CD by lifting it.**
Pressing on the disc spindle, lift the CD by holding its edge.

1 **Press ⏏.**

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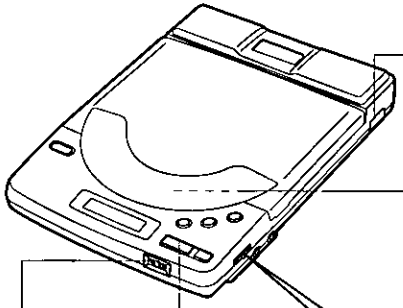
Playing an audio CD

You can listen to the music through the player's built-in speakers or your headphones/ external speaker system (not supplied) connected to the PHONES jack.
The player is not specially designed to be used while walking, etc.

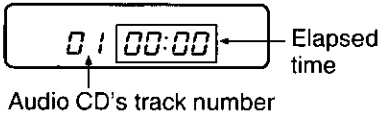
Caution:
- It is not safe to listen to headphones while driving a car.

Be sure the VOLUME control is turned down (set to 2~4) before playing an audio CD.



1 **Press POWER switch to turn on the player.**

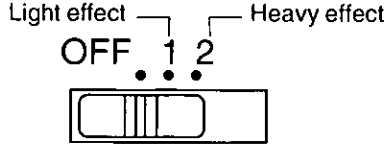
2 **Insert an audio CD** (☞ P. 16).



3 **Press** ►II/CHG.

4 **Rotate the VOLUME control to adjust the volume.**

SPATIALIZER effect switch



Adjust this switch for best listening enjoyment.

Notes:
- For monophonic sound sources you do not get 3-dimensional sound effects even the SPATIALIZER effect switch is activated.
- It is recommended that the terminator of the player is set to OFF. Power consumption can be saved (☞ P. 37).

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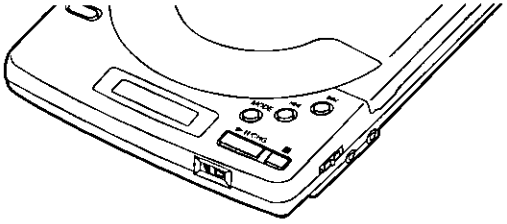
■ Buttons function and operation:



Function	Operation
Starts/pauses audio CD playback.	Press ►II/CHG.
Stops audio CD playback.	Press ■.
Skips to the next track number.	Press ⏭ once.
Returns to the beginning of the track being played.	Press ⏮ once.
Skips to the previous track number.	Press ⏮ once when the elapsed time is 00:00.
Advances to your desired point.	Keep pressing ⏭.
Reverses to your desired point.	Keep pressing ⏮.
Repeats the track being played.*	Press MODE until "ONE" is displayed.
Repeats all tracks.*	Press MODE until "ALL" is displayed.
Repeats tracks at random.*	Press MODE until "rand" is displayed.

* Every time MODE is pressed, the mode changes in the following order.

→ [ONE] → [ALL] → [rand] → (Normal mode) →

Notes:

- To cancel the Repeat mode (*), press ■. The mode is returned to Normal mode.
- When the blinking message "on" is displayed, the buttons ►II/CHG, ⏭, ⏮, MODE and ■ can not be used.

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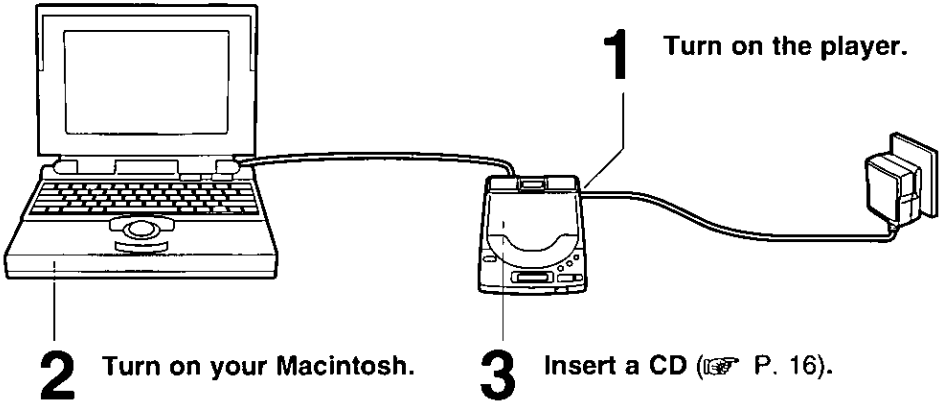
Using the Player with Macintosh

Make sure that all the necessary preparation is done (☞ P. 9~11) and your Macintosh has been set up properly (☞ P. 12~15).

<Example>



Notes:

- When "BUSY" is displayed on the player's display;
  —Do not open the disc cover.
  —Do not press ⏏.
  —Do not turn off the player.
  Otherwise, your Macintosh may hang up. If this happened, reset your Macintosh.
- If the Macintosh is turned on before the player, the player may not be recognized and cause a malfunction.
- Do not turn off the player before the Macintosh. This may cause malfunction of the Macintosh. If this happens, turn on the player or reset the Macintosh.
- To remove a CD from the player, exit an application, press ⏏, then remove the CD.
- When using the player with battery if "▭" is displayed on the player's display, quickly connect the AC adaptor. Otherwise your computer may hang up.
- When using battery, you might notice the data transfer speed slows and access time increases.

- When ⏏ is pressed, a CD stops playing. To resume playing the CD, send a command from the Macintosh to the player.

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Playing a CD-ROM

To use a CD-ROM, refer to the manual included with a CD-ROM or "README" file included on the CD-ROM.

Playing a Photo CD

For best use of Kodak's Photo CDs, we recommend using two Apple Extensions: QuickTime 1.5*1 or later and Apple Photo Access*2.

*1 This is available through reseller, on several on-line service and on AppleLink.
*2 This is available on the Internet and on AppleLink.

To view images stored on Photo CDs, use any program that can view PICT files in conjunction with QuickTime.
To view and edit the images, you can use a application program such as Adobe Photo shop.

Notes:
- QuickTime does not operate on some Macintosh such as Macintosh Plus, SE, Classic, Portable and PowerBook 100.
- If you are using System 6.0.x, Photo CD can not be played without MultiFinder.

Playing a CD Extra

1 **Open the Control Panel from Apple ( ) Menu.**

2 **Double click the "CD-ROM ToolKit™" icon.**

3 **Click [Options].**

4 **Click on the check box of "Upon CD inserts, search every track for possible data to mount".**

5 **Restart your Macintosh.**

Note:
- When playing a CD other than CD Extra, click off the check box of "Upon CD inserts, search every track for possible data to mount". If not, it could not be recognized properly or could not be activated. For the details, refer to "Playing Audio tracks of multimedia data discs" in "Read Me for Panasonic" file in the supplied Setup disk.

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Starting up Macintosh from a CD-ROM

System Software can be started up Macintosh from a CD-ROM with the player. Make sure that the player and your Macintosh are connected.

1 **Insert CD-ROM for System Software into the player.**

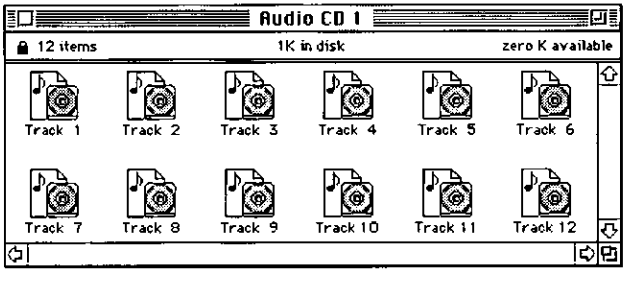
2 **Make sure that caps lock key is not pressed.**

3 **Turn on your Macintosh while pressing shift, option, command (⌘) and delete keys at the same time.**
Press the keys until a startup window of the System Software appears.

Playing an audio CD

"Audio CD" icon ( ) appears on the screen when audio CD is inserted in the player. Double-clicking the icon, the files named track 1, track 2, etc., appear as follows.

<Example>



You can play these by simply double-clicking on individual tracks. CDT Remote Panel (☞ P. 22) will appear and CDT Remote automatically scans the disc inserted in the player and displays the first track in the Elapsed Time Window.
The functions of each CDT Remote button are shown on P. 22, 23.

Note:

- If you are using System 6.0.x, CDT Remote Panel will not appear automatically by double-clicking on track. To activate the CDT Remote, double-click CDT Remote icon in the CD-ROM ToolKit Extras Folder.

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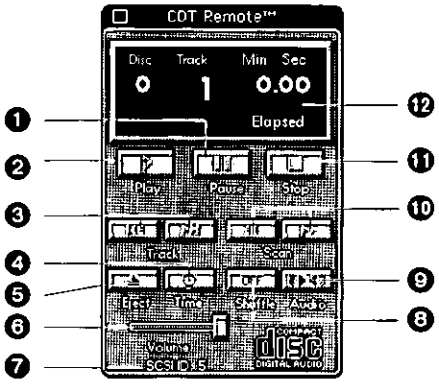
CDT Remote Panel



Notes:

- While using the player with a Macintosh, the buttons ECHO, ⏭, ⏮ and MODE on the player can not be used.
- The sound of an audio CD is heard from the built-in speakers of the player.

No.	Button	Function
❶	Pause	Pause/starts audio CD playback by clicking it.
❷	Play	Starts playing the track displayed in the Elapsed Time Window by clicking it.
❸	Track ▶▶|	Skips to the beginning of the next track by clicking it.
	Track |◀◀	Skips to the beginning of the current track by clicking it. Goes to the previous track by clicking subsequently.
❹	Time	Toggles between displaying the elapsed time for the current track and the time remaining for the current track by clicking it.
❺	Eject*	Stops audio CD playback and drags the CD icon into the trash by clicking it. To play the same CD again, open and close the disc cover of the player.

* CD will not be ejected automatically because this CD-ROM player is not a tray type.

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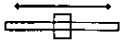
No.	Button	Function
❻	Volume	Adjusts the volume from the CD-ROM drive output to the player's built-in speakers or headphones. If the volume of the player is set to 0, no sound can be heard. This control works in conjunction with the player's volume control. Lower  Higher
❼	SCSI ID	Shows the SCSI ID number of the CD-ROM player selected.
❽	Shuffle	Plays the tracks on the inserted CDs in random order until each is played by clicking it.
❾	Audio	Selects different audio channels for play through the player's built-in speakers or headphones by clicking it. The factory setting is set at STEREO. **STEREO** → **STEREO from Left** → **STEREO from Right** → **Left channel from both sides** → **Right channel from both sides** → **MONAURAL**
❿	Scan ▶▶	Skips forward repeatedly in the audio portion played through the player's built-in speakers or headphones by holding it down while playing an audio track.
	Scan ◀◀	Skips backward repeatedly in the audio portion played through the player's built-in speakers or headphones by holding it down while playing an audio track.
⓫	Stop	Stops audio CD playback and returns to the beginning of the current track by clicking it.
⓬	Elapsed Time Window	Displays the status information about the current track.

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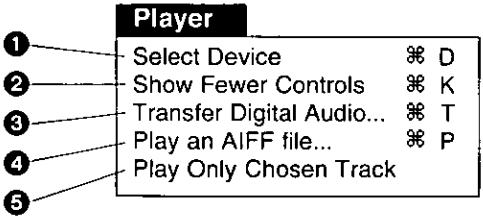
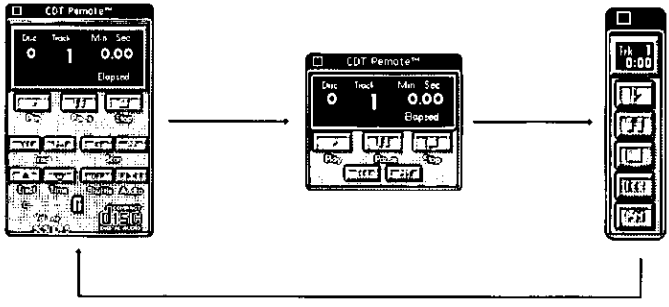
If you move the cursor to the Menu bar item "Player" while the CDT Remote Panel is displayed, the following commands will appear. The functions of each command are shown in the table below.



No.	Function
❶	If you have more than one CD-ROM drive, CDT Remote automatically picks the drive with the lowest SCSI ID number. You can select another drive by choosing Select Device from the CDT Remote menu.
❷	If you prefer to have CDT Remote take up less room on your screen, you can choose Show Fewer Controls and the CDT Remote window will shrink to less than half the size while still keeping the most important control buttons. Your selection will be saved, so the next time you run CDT Remote it will display the preferred size. 
❸	This function is not supported.
❹	Playback of AIFF files at 16 bit quality, when possible, is also supported. The playback will function in the background, while you work, and will give much better performance than tools such as Apple's MoviePlayer 2.0. This menu item will not be displayed if QuickTime 1.6 or later, or Sound Manager 3.0 is not present.
❺	This command will restrict CDT Remote to playing only the track that is currently displayed in the Elapsed Time Window.

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Listening to PC sound through the player

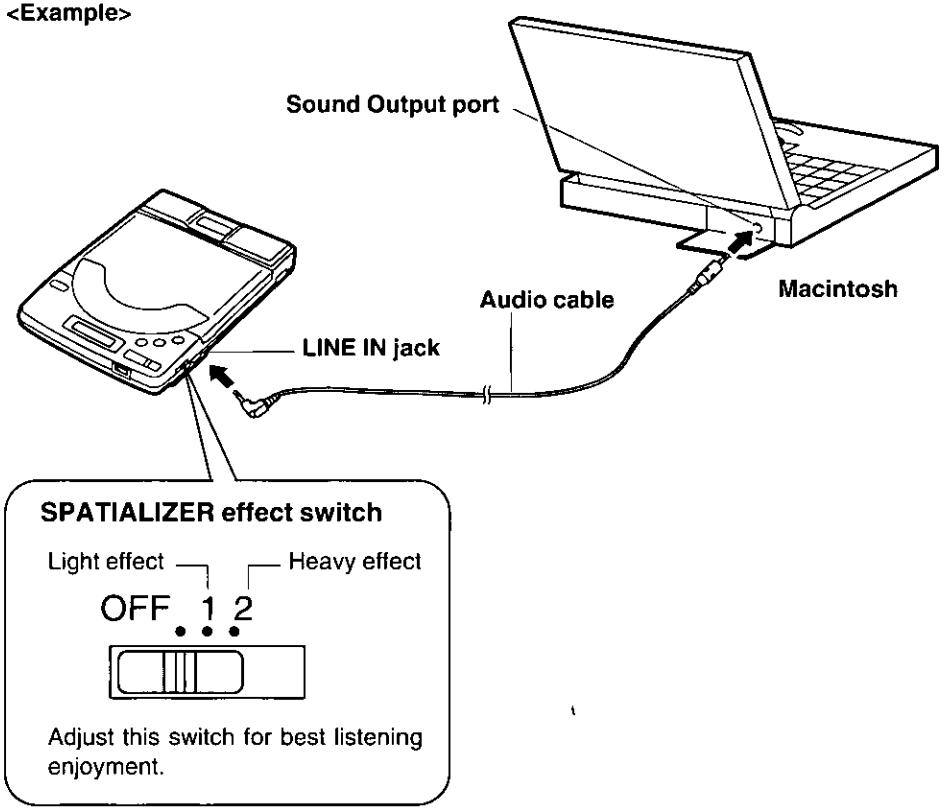
PC sound can be heard through the player's built-in speakers or headphones attached to the player's PHONES jack by connecting the supplied Audio cable to the Macintosh's Sound Output port and to the player's LINE IN jack.

Notes:

- Whenever connecting/disconnecting the Audio cable, be sure that the player's VOLUME control is set to the lowest level (0).
- Audio cable cannot be connected to some Macintosh which do not have Sound Output port.
- For monophonic sound sources you do not get 3-dimensional sound effects even the SPATIALIZER effect switch is activated.
- If you hear a distorted sound from the built-in speakers, lower the volume of your Macintosh.

Connect the supplied Audio cable.

<Example>



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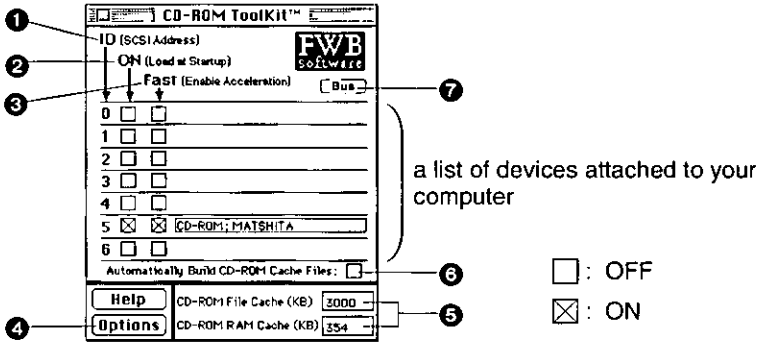
Details of CD-ROM ToolKit

Setup disk includes a convenient Control Panel that allows users to automatically accelerate and configure all discs for optimum performance.
To open the Control Panel, follow the steps below.

1 Open Control Panel from Apple ( ) Menu.

2 Double click "CD-ROM" ToolKit icon.

After opening the Control Panel, CD-ROM ToolKit will automatically scan the SCSI bus and identify the device at each SCSI address in the right column.



No.	Function
❶	SCSI ID number
❷	Allows you to designate whether you want CD-ROM ToolKit's device driver to be loaded at Startup. This feature provides users with an easy way to turn off CD-ROM ToolKit's driver should you wish to run another CD-ROM driver, such as Apple's.
❸	Allows you to turn acceleration on or off for individual SCSI IDs.
❹	Provides access to specific caching features.
❺	Allows you to edit the amount of memory allocated to the cache. This number can be changed by clicking in the box and typing a new number.
❻	By checking this, CD-ROM ToolKit starts caching file and directory information to the hard disk automatically when you insert a CD-ROM disc.
❼	Allows you to view devices on any active SCSI Manager 4.3 compatible bus on your Macintosh by clicking it. The Bus will not appear unless more than one SCSI bus is present.

Click Help for further information.

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Using Rechargeable Battery (option)

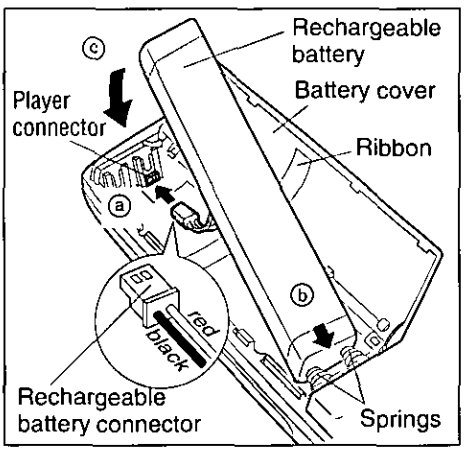
Optional rechargeable battery (KXL-D30) needs to be purchased. Before initial use, please fully charge the rechargeable battery (☞ P. 28).

Note:

- When using the rechargeable battery, you might notice the data transfer speed slows and access time increases.

Installing rechargeable battery

Make sure that the AC adaptor is disconnected.



1. **Open the battery cover by sliding and lifting it up.**
2. **Insert the rechargeable battery connector into the player connector (ⓐ).**
3. **Install the rechargeable battery (ⓒ) placing the ribbon underneath it and pressing the springs (ⓑ).**
4. **Close the battery cover by pressing it down and sliding it back.**

Notes:

- Make sure that the battery's connector cable is fixed inside the battery cover, otherwise the cable could get damaged.
- If the player is not going to be used for more than two (2) months, remove the rechargeable battery to maintain the battery life.

- Power Save Function is effective (☞ P. 9).
- When an audio CD is played in the Normal mode on the player using the rechargeable battery, the power automatically goes off after the last track has been played.

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Charging rechargeable battery

Charge the rechargeable battery:
- Before initial use.
- When the blinking mark " " appears on the player's display.

Caution:
- Do not attempt to charge the rechargeable battery using a charger other than this player.

1 **Install the rechargeable battery (☞ P. 27 "Installing rechargeable battery").**

2 **Connect the supplied AC adaptor (☞ P. 9).**

3 **Turn on the player by pressing the POWER switch.**

4 **Press HOLD on the player until the blinking mark "CHG" appears.**

Charging starts and it will finish automatically when the mark "CHG" disappears and the power goes off. A full battery charge requires a maximum of three (3) hours.
- To stop charging, turn off the power.

Notes:
- The charging time may change depending on the charging capacity of the rechargeable battery.
- While charging, no other operation can be performed.
- If the blinking mark "" appears on the player's display while using the rechargeable battery with the Macintosh attached, quickly connect the AC adaptor. Otherwise the Macintosh may hang up.

■ *Trickle charging function:*

Charging starts automatically when the rechargeable battery is installed, the AC adaptor is connected and the power is on. While being charged the mark "CHG" does not appear on the player's display.

In this case, a full charge may not be done. To charge the rechargeable battery fully, follow the steps 1 to 4 above.

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Refreshing rechargeable battery

If the rechargeable battery seems to run down sooner than usual (maybe because of repetitive short-term charging and discharging), refresh the rechargeable battery two to three times by following the instructions below.

1 Disconnect the player from your Macintosh and the AC adaptor.

2 Play an audio CD repeatedly to completely discharge the rechargeable battery.

- Press MODE ○ until "ALL" is displayed and play an audio CD repeatedly until the "▭" mark appears and the power goes off.

3 Connect the AC adaptor, turn on the player and press ►II/CHG ▭ on the player until the blinking mark "CHG▭" appears.

4 Charge the rechargeable battery until the mark " CHG▭" disappears and the power goes off.

Replacing rechargeable battery

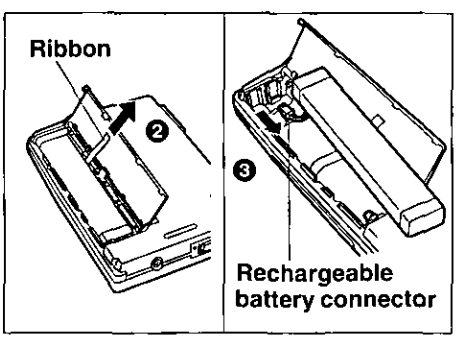
Replace the rechargeable battery:

- If the rechargeable battery quickly runs down even after refreshing (it has reached the end of its life).

Note:

- The rechargeable battery will cycle approximately 300 times under optimum condition.

■ *Removing the rechargeable battery:*



❶ Open the battery cover.

❷ Pull the ribbon upward.

❸ Disconnect the rechargeable battery connector by pulling its cable carefully, then remove the rechargeable battery.

❹ Close the battery cover.

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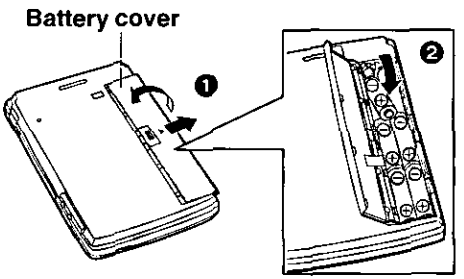
Using Alkaline Batteries (not supplied)

Six (6) "AA" size alkaline batteries are required.

Alkaline battery Precautions:
If improperly used, the batteries may leak and cause corrosion. Therefore, observe the following:
- Install batteries according to the diagram.
- Do not mix old and new batteries, or carbon and alkaline battery types.
- Remove all batteries when not using the player for extended periods.
- **Do not charge, short-circuit, disassemble, heat, or dispose of in fire.**

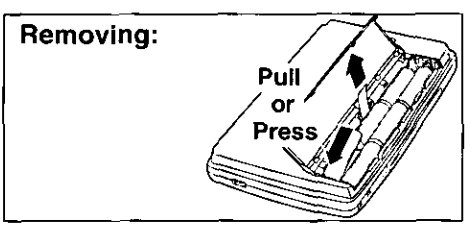


❶ Open the battery cover by sliding and lifting it up.

❷ Install six (6) "AA" size alkaline batteries (not supplied) placing the ribbon underneath them.
Make sure the polarities (+, −) match the diagram.

❸ Close the battery cover by pressing it down and sliding it back.

■ *Replacing the Batteries:*



Replace the batteries when blinking mark "▭" appears on the player's display.

Notes:
- When using alkaline batteries, you might notice the data transfer speed slows and access time increases.
- If the blinking mark "▭" appears on the player's display while using the alkaline battery with the Macintosh attached, quickly connect the AC adaptor. Otherwise the Macintosh may hang up.

- Power Save Function is effective (☞ P. 9).
- When an audio CD is played in the Normal mode on the player using alkaline batteries, the power automatically goes off after the last track has been played.

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Troubleshooting

If trouble occurs, check the following points before returning the player for service.

Trouble	Possible Cause	Solution
Turn on the POWER switch, but nothing appears on the display.	AC adaptor is not plugged into the outlet or DC IN jack correctly.	Plug in the AC adaptor correctly (☞ P. 9).
	The Auto Protect function of AC adaptor is working.	Disconnect the AC adaptor and connect it again after 2~3 minutes.
	The alkaline batteries or rechargeable battery are/is not installed correctly, or dead.	Install the alkaline batteries/ rechargeable battery properly, charge the rechargeable battery or replace with new batteries (☞ P. 27~30).
An audio CD is inserted and the power is on, but buttons on the player do not function.	When an audio CD is being played with Macintosh, ▶II/CHG, ⏮, ⏭ or MODE is pressed.	While playing an audio CD with Macintosh, these player's buttons do not function. Use the CDT Remote Panel to play an audio CD with Macintosh (☞ P. 21, 22).
The player can not be turned off.	System lockup.	Press RESET switch located at the bottom of player by using a pointed object like a pen (do not use a pencil).
Player (especially center spindle), rechargeable battery or AC adaptor is warm.		This is not abnormal. If they become hot, consult your dealer.
Disc cover can not be opened.	The LOCK switch is moved toward the rear of the player.	Move the LOCK switch to opposite direction.
The optional rechargeable battery can not be charged.	AC adaptor is not connected, the rechargeable battery is not installed or POWER switch of the player is not on.	Connect the AC adaptor, install the rechargeable battery or turn on the POWER switch of the player.
The optional rechargeable battery runs down too soon.	The rechargeable battery capacity has been reduced and the battery life has been shortened by being charged too often after using for short periods.	Refresh the rechargeable battery (☞ P. 29). If the battery runs down quickly even after refreshing, replace with new one (☞ P. 29).

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Trouble	Possible Cause	Solution
Transmission speed of data slows down.	Using the player with the alkaline batteries/rechargeable battery.	Use the AC adaptor.
	QuickTime is being used.	Please refer to "QuickTime playback" of the "CD-ROM ToolKit" in "Read Me for Panasonic" file in the supplied Setup disk (☞ P. 13).
"no dISC" message appears on player's display even after inserting a CD. Sound skips, or data can not be read.	CD is placed with the label side facing down.	Place the CD with the label side facing up (☞ P. 16).
	CD without COMPACT disc or COMPACT disc DIGITAL AUDIO mark is used.	Use the CD marked with COMPACT disc or COMPACT disc DIGITAL AUDIO.
	CD or the lens of the player may have become dirty.	Clean the CD or the lens of the player (☞ P. 36).
	CD is damaged.	Replace with another CD.
	Dust such as a hair lay on the disc spindle.	Clean the disc spindle.
	The player or/and CD are damp or moist, because the player or/and CD may have been moved from a cold place to a warm place.	Remove the CD from the player and do not use the player and CD for about 1 hour.
You can not listen to sound through the built-in speakers of the player.	Headphones are connected to the PHONES jack of the player.	Disconnect the headphones.
	The player's VOLUME control is set to "0".	Set the player's VOLUME control to a higher level.
	■ When listening to PC sound: The Audio cable is not connected to the player's LINE IN jack and to the Macintosh's Sound Output port properly.	Connect the Audio cable properly (☞ P. 25).
	■ When listening to PC sound: The volume of the Macintosh is set to low or the mute setting is on.	Adjust the Macintosh's volume to higher or click off the mute setting.
	■ When listening to an audio CD: The volume of CDT Remote Panel is set to left most.	Adjust the volume by setting it to right side (☞ P. 22).

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Trouble	Possible Cause	Solution
CD-ROM ToolKit icon does not appear when starting Macintosh.	CD-ROM ToolKit has not been loaded properly.	Reinstall the software (☞ P. 12~15).
CD-ROM ToolKit is not loaded properly. (When starting Macintosh, following icon appears.)	CD-ROM driver other than CD-ROM ToolKit is being used.	Remove the CD-ROM driver other than CD-ROM ToolKit from System Folder and restart your Macintosh.
Your Macintosh does not recognize the player (When starting Macintosh, following icon appears), or does not function properly.	Your Macintosh is not setup correctly.	Install the software by using the supplied Setup disk (☞ P. 12~15).
	Macintosh is turned on before turning on the player.	Turn on the player, then turn on your Macintosh.
	The SCSI cable is not connected to the player or to Macintosh properly.	Properly connect the SCSI cable (☞ P. 10, 11).
	The SCSI cable pin is bent or broken.	■ When using with PowerBook: Contact your dealer (or contact Panasonic Service Center at 1-800-PANA-SYS for users in continental United States). ■ When using with Desktop Macintosh: Contact the store which you purchased the SCSI cable.
	There are duplicate SCSI ID numbers for devices in your system.	Set a different SCSI ID number for each device in your system (☞ P. 37).
	The player's terminator is set to OFF.	Set the terminator to ON (☞ P. 37).
	Check the box next to the player's SCSI ID number on CD-ROM ToolKit Control Panel is not on.	Open the CD-ROM ToolKit Control Panel and check the box next to the SCSI ID number of the player (☞ P. 26).

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Trouble	Possible Cause	Solution
Malfunction of the Macintosh.	Turning off the player before ending the current job.	Turn on the player or reset the Macintosh (☞ P. 19).
The player does not appear on the list in the CD-ROM ToolKit Control Panel.	The player is not on or the cable is not connected properly.	Turn on the player or connect the cable properly.
	Using Macintosh with the terminator switch of the player OFF.	Turn the terminator switch ON (☞ P. 37).
	The player is conflicting with another device.	Set the different SCSI ID number for each device (☞ P. 37).
CD can not be mounted.	The player is not on, or the cable is not connected properly.	Turn on the player, or connect the cable properly.
	Check box next to the player's SCSI ID number on the CD-ROM ToolKit Control Panel is not ON.	Open the CD-ROM ToolKit Control Panel and check the box next to the SCSI ID number of the player (☞ P. 26).
	Unsupported CD-ROM format is loaded.	Load the CD-ROM such as Photo CD, HSF, High sierra, ISO 9660, Apple ProDOS .
	Mounted icon is not dragged to trash.	Drag the mounted CD to trash and then change the disc.
	File accessible to different format is installed in the System Extensions Folder.	Install Foreign File Access, Audio CD Access, High Sierra File Access and ISO 9660 File Access into System Extensions Folder.
Mounted CD can not be ejected.	Part of the file is currently in use.	Close the file which is currently in use in Finder and drag the icon.
	File is used in common.	Cancel the common use of the file.
Photo CD can not be read.	For use of Photo CD, QuickTime 1.5 or later and Apple Photo Access are required.	Install QuickTime 1.5 or later and Apple Photo Access into System Folder. These are available through resellers, on several on-line services and on AppleLink (☞ P. 20).

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Trouble	Possible Cause	Solution
Distorted sound is heard from the built-in speakers when connecting Audio cable to the player and the computer.	The volume of your Macintosh is set too high.	Lower the volume of your Macintosh.

Error Messages on Macintosh

Error Message	Possible Cause	Solution
This disk is unreadable by Macintosh.	Foreign File Access, Audio CD Access, High Sierra File Access, ISO 9660 File Access has not been loaded into the Extensions Folder.	Reinstall the software by using the supplied Setup disk.
	CPU accelerator is being used.	Some CPU accelerator can not use blind SCSI I/O. Select the **Options** from CD-ROM ToolKit Control Panel and click on the check box of "Use Slower Polled Non-Blind SCSI I/O" (☞ P. 26).
	■ When playing a CD Extra: The setting to read CD Extra is not on.	Select the **Options** from CD-ROM ToolKit Control Panel and click on the check box of "Upon CD inserts, search every track for possible data to mount" (☞ P. 20).
CD-ROM ToolKit will not be able to support one of your CD-ROM drives because it is already handled by another CD-ROM driver.	CD-ROM driver other than CD-ROM ToolKit is being used.	■ When using the player with other CD-ROM drive(s): Remove the CD-ROM driver other than CD-ROM ToolKit from System Folder. (☞ P. 12)
		■ When using only the player as a CD-ROM drive: Open the CD-ROM ToolKit Control Panel and click off the check box next to the other CD-ROM drive's SCSI ID No. (☞ P. 26)

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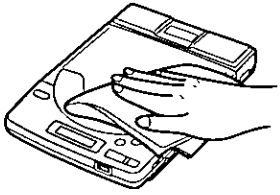
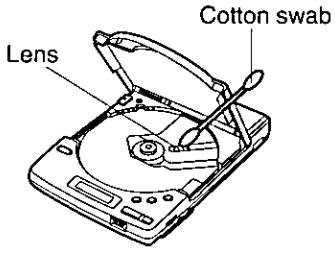
■ *Player:*

Cautions:

- Do not use benzine, thinner, etc.
- Do not use commercial lens cleaner.

Clean the outside of the player with a soft, dry cloth. 	Clean the lens with a dry cotton swab or a lens blower. 

■ *CD:*

Cautions:

- Do not use solvents such as benzine, record cleaners or anti-static spray for records.
- Do not touch the signal side.
- Do not attach the labels to the disc.
- Do not write on the surface of disc with a pointed object like a pen.

Wipe from the center to the edge with a dry, soft cloth.

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SCSI ID Number and Terminator Setting

■ *SCSI ID number:*

Each SCSI device connected to your Macintosh can be assigned an individual ID number (refer to the respective manuals). Be sure that the CD-ROM SCSI ID number is not same as another SCSI device connected to the Macintosh.
The factory setting of the player's SCSI ID number is set to **5**.

■ *Terminator:*

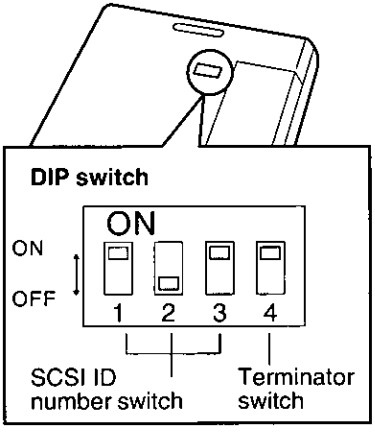
The factory setting is **ON**.

ON: When the player is connected to the Macintosh (☞ P. 19).
If SCSI devices are connected, set their terminators to OFF.

OFF: When using independently as an audio CD player (power consumption can be saved) (☞ P. 17).

Setting

Make sure that the player is off.
Set the SCSI ID number switch (1~3) or Terminator switch (4) ON/OFF by using a pointed object like a pen (do not use a pencil), and referring to the table below (for SCSI ID number).



Example: SCSI ID number=5
Terminator=ON

(For SCSI ID number setting)

SCSI ID number	SCSI ID number switch		
	1	2	3
0	OFF	OFF	OFF
1	ON	OFF	OFF
2	OFF	ON	OFF
3	ON	ON	OFF
4	OFF	OFF	ON
5	ON	OFF	ON
6	OFF	ON	ON
7*	ON	ON	ON

☐ : **Factory setting**

* Do not use "7" for player's SCSI ID number, since it is used for the Macintosh.

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Specifications

<table>
<tr><td>Operating Environment (under no damp or moist conditions):</td><td>Temperature: 5°C {41°F} to 35°C {95°F}
Humidity: 20% to 85% RH</td></tr>
<tr><td>Storage Environment (Non-condensing):</td><td>Temperature: −20°C {−4°F} to 55°C {131°F}
Humidity: 15% to 85% RH</td></tr>
<tr><td>Dimensions:</td><td>138 (W)×204 (D)×35 (H) mm {5.52″×8.16″×1.4″}</td></tr>
<tr><td>Mass {Weight}:</td><td>Approx. 515 g {1.135 lbs.} (without batteries)</td></tr>
<tr><td>Power Source:</td><td>Refer to the nameplate at the bottom of the unit.</td></tr>
<tr><td>Interface:</td><td>SCSI-2</td></tr>
<tr><td>SCSI Connector:</td><td>Half-pitch 50 pin</td></tr>
<tr><td>Buffer Size:</td><td>128 KB</td></tr>
<tr><td>Battery Life*1 [at 20°C {68°F}]:</td><td>• When using Panasonic “AA” size alkaline batteries continuously
<table>
<tr><td></td><td>PHONES jack</td><td>Built-in speakers*3</td></tr>
<tr><td>Audio CD*2</td><td>Approx. 3.5 h</td><td>Approx. 3 h</td></tr>
<tr><td>CD-ROM</td><td>Approx. 2.0 h</td><td>Approx. 2.0 h</td></tr>
</table>
• When using the optional rechargeable battery continuously
<table>
<tr><td></td><td>PHONES jack</td><td>Built-in speakers*3</td></tr>
<tr><td>Audio CD*2</td><td>Approx. 1.5 h</td><td>Approx. 1.5 h</td></tr>
<tr><td>CD-ROM</td><td>Approx. 1.0 h</td><td>Approx. 1.0 h</td></tr>
</table></td></tr>
<tr><td>Data Transfer Rate (when using AC adaptor):</td><td>1200 KB/s (8X Velocity mode)*4
150 KB/s (Normal Velocity mode)</td></tr>
</table>

*1 When using “SPATIALIZER” function, this may become shorter.
*2 When using the player with the terminator OFF.
*3 Rated at 30 mW+30 mW output.
*4 To conserve power, the data transfer rate becomes 600 KB/s under the following conditions.
- When using optional rechargeable battery or “AA” size alkaline batteries.
- When a warped CD vibrates or the disc is not properly seated.

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Access Time* (when using AC adaptor): (The information is based on the test results measured by Panasonic test software.)	1/3 stroke access time 180 ms typical Full stroke access time 280 ms typical	
Power Consumption:	• When playing CD-ROM Approx. 15 W [with AC adaptor] • When player is off Approx. 1 W [when AC adaptor is connected with 120 V outlet]	
Compatible CD, CD-ROM Format:	CD-DA (Audio CD) CD-ROM (Mode 1 and Mode 2 Form 1) CD-ROM XA (Mode 2 Form 2) Photo CD (Multisession) CD Extra	
Error Rates:	Soft read errors Hard read errors	Less than 10^{-9} Less than 10^{-12}
Audio Performance:		
Phones out (stereo):	S/N Output level	More than 80 dB (A Range) 14 mW (EIAJ) (impedance 16 Ω)
Line in (stereo):	Input level	1.2 Vrms or lower (impedance 10 kΩ or higher)
Built-in speakers:	Output level	1 W+1 W (impedance 8 Ω)
SCSI Cable (for PowerBook):	SCSI connector Cable length	Half-pitch 50 pin (pin type) HDI-30 Approx. 480 mm (without connector)
Audio Cable:	Plug Cable length	Ø3.5 mini stereo plug Approx. 800 mm

* When using optional rechargeable battery or "AA" size alkaline batteries, the access time increases.

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Option

The following option is available through your local Panasonic authorized parts distributor.

KXL-D30 Rechargeable Battery

FOR USERS IN CONTINENTAL UNITED STATES ONLY

Technical Support and Service Parts Calls

If you have read this manual and tried the troubleshooting procedures, and you are still having difficulty, please contact the store from which the unit was purchased. Panasonic Communications & Systems Company will repair this product with new or refurbished parts free of charge for two (2) years from the date of purchase.

You may also call the technical support telephone number (24 hours/7 days).

The technical support number is: 1-800-PANA-SYS (1-800-726-2797)

The service parts number is: 1-800-332-5348

Software drivers are sometimes up dated. You can download the latest driver or new setup disk via your modem.
Internet: www.PANASONIC.com
BBS: @ 201-863-7845

This product is designed for use only in the country where it was purchased.

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