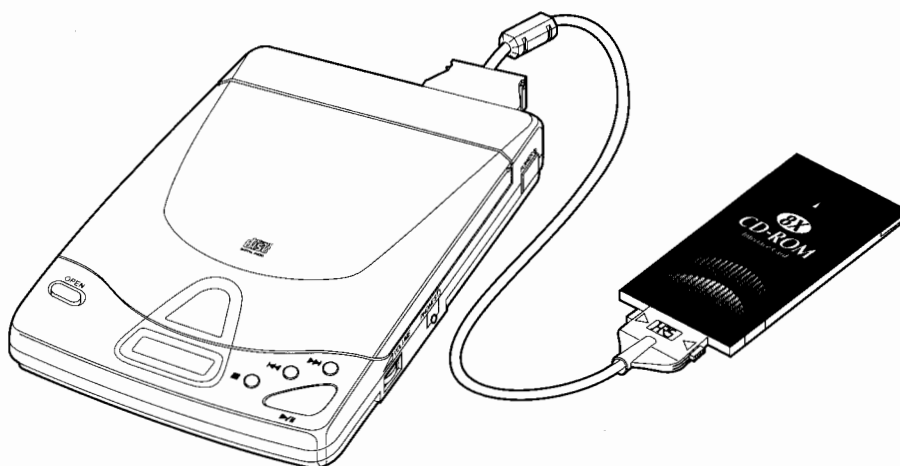


8X CD-ROM PLAYER



Model No. **HP J2927A**

Operating Instructions



Please read before using.

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

WARNING

- To prevent fire or shock hazard, do not expose this product to rain or any type of moisture.

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 μ W
Wave length	790 nm
Emission duration	Continuous

(These values are measured at a distance of 200 mm from the objective lens surface.)

IBM and PC-DOS are trademarks of International Business Machines Corporation.
Microsoft®, MS-DOS® and Windows® are registered trademarks of Microsoft Corporation in the United States and/or other countries.
Photo CD is a trademark of Eastman Kodak Company.

All other acknowledgments are trademarks of registered trademarks of their respective holders.

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

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 amount of space between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult with a 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.

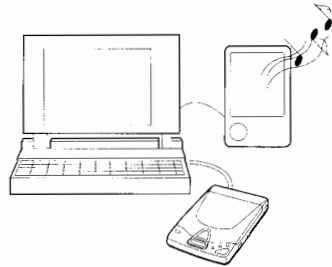
FCC Warning: To assure continued FCC emission limit compliance, the user must use only the recommended shield interfacing cable when connecting to a host computer. Also, any unauthorized changes or modifications to this equipment would void the users authority to operate this device.

■ Features:

- Can be connected to a notebook/desktop computer which has a PCMCIA card slot with supplied PC Card and PCMCIA Cable. (☞ P. 10, 11)
- Can be connected to a desktop computer with the purchase of a SCSI board and SCSI cable. (☞ P. 11)
- Both CD-ROM and audio CD can be played when attached to your computer. (☞ P. 17, 18)
- Can be used independently as an audio CD player. (☞ P. 19)
- MPC1, MPC2 * Compatible.

*The capability differs depending on the personal computer or software.

**Use the player with a
computer (☞ P.17, 18)**



Sound system devices
may be required.

**Use the player
independently (☞ P.19)**



Headphones are
necessary.

Important:

- Please use CD-ROMs
with the marking below.

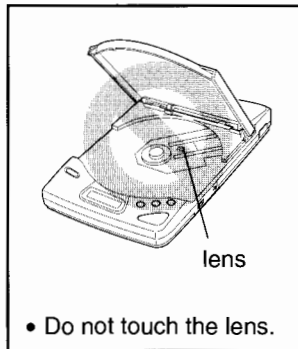
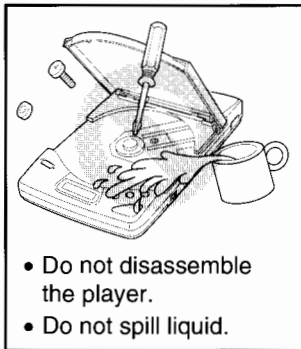
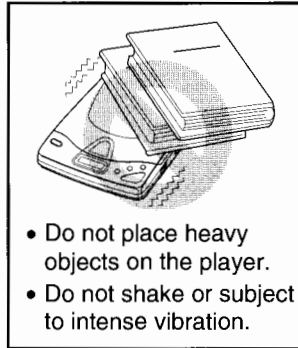
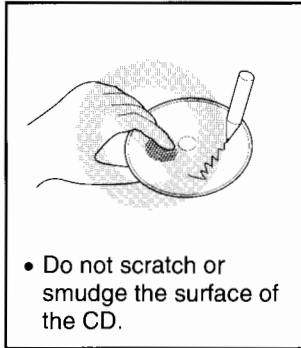
**COMPACT
disc**

- Please use audio CDs
with the marking below.

**COMPACT
disc
DIGITAL AUDIO**

Precautions

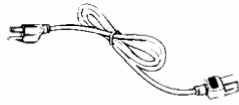
- The power source voltage of this AC Adaptor is listed on the nameplate. Only plug the AC Adaptor into an outlet with the proper voltage to avoid risk of fire or electronic shock.
- When you operate this equipment, the outlet should be near the equipment and easily accessible.



- Do not play the CD-ROM/audio CD while transporting.
- Do not use near any appliance that may cause vibration to this unit.
- Do not drop or jar the player.

Accessories

The following accessories are included with the player.



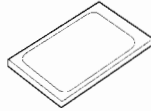
Power Cord
(P. 9)



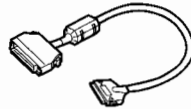
AC Adaptor
(P. 9)



Connector Adaptor
(P. 9)



**PC Card
(Interface Card)**
(P. 10)



PCMCIA Cable
(P. 10)



Setup Disk
(P. 13)
[Before opening,
please read p.30.]

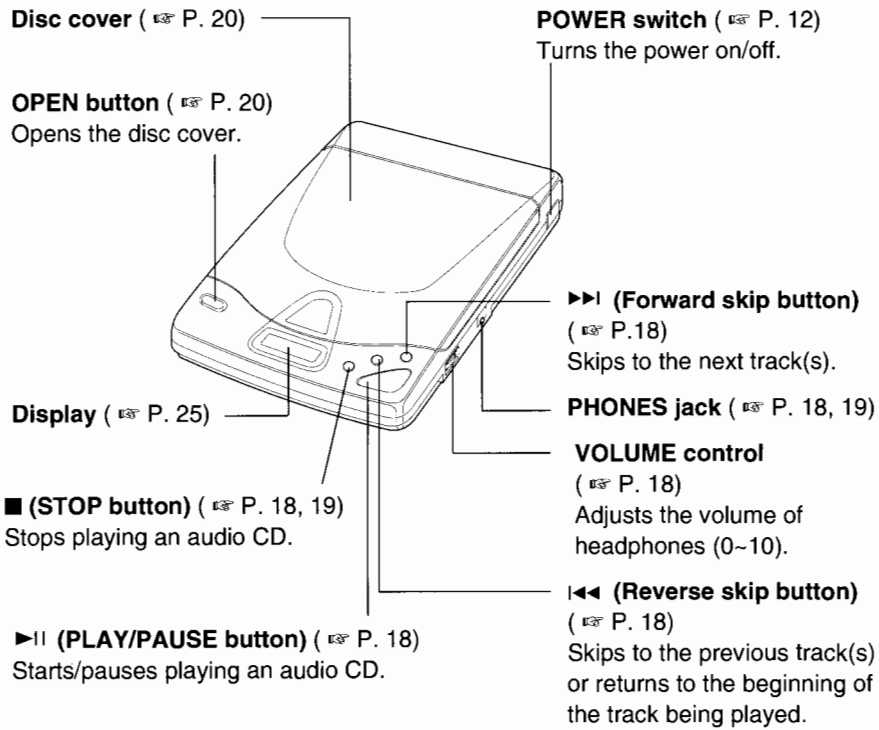
- Operating instructions

Table of Contents

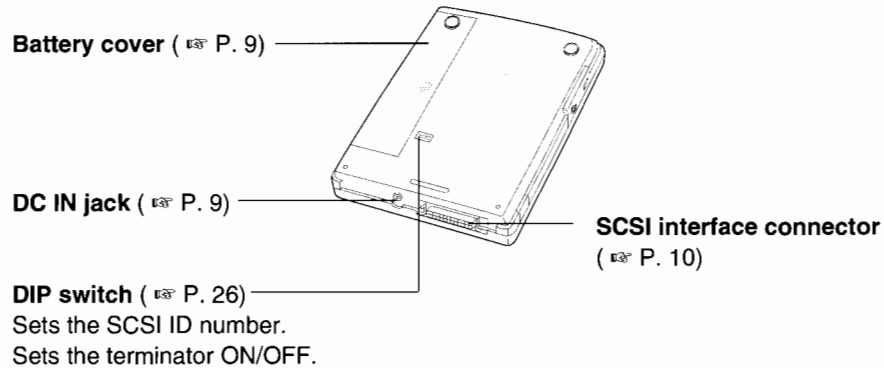
Precautions	5		
Accessories	6		
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Part Names

Top view



Rear/Bottom view

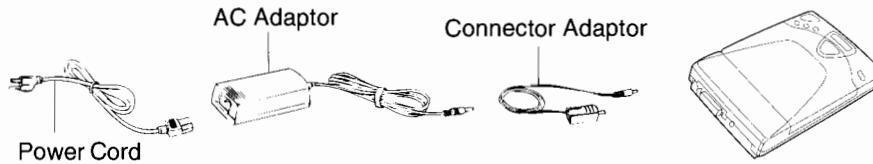


Power Supply

This player can be used by using either the supplied AC Adaptor or batteries (not supplied).

Using supplied AC Adaptor

Connect one end of the Connector Adaptor to the DC IN jack and the other end to the AC Adaptor. Connect one end of the power cord to the AC Adaptor and the other end to an AC outlet.



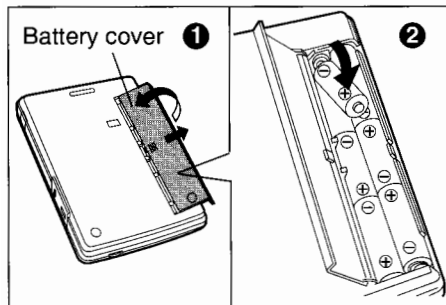
Using batteries

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

Battery Precautions:

If used improperly, the batteries may leak and cause corrosion or burns. 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 batteries in fire.



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

2 Install six "AA" size batteries (not supplied).

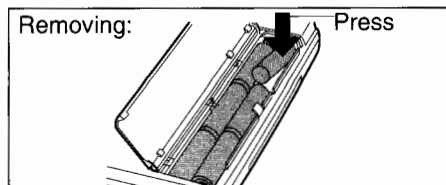
Make sure the polarities (+, -) match the diagram.

3 Close the battery cover.

Note:

- If you use the player with batteries, the Data Transfer Rate and Access Time may slow down (P. 28).

■ Replacing the Batteries:



Replace the batteries when a blinking mark " " appears on the display.

Connecting the Player to a Computer

To a notebook computer

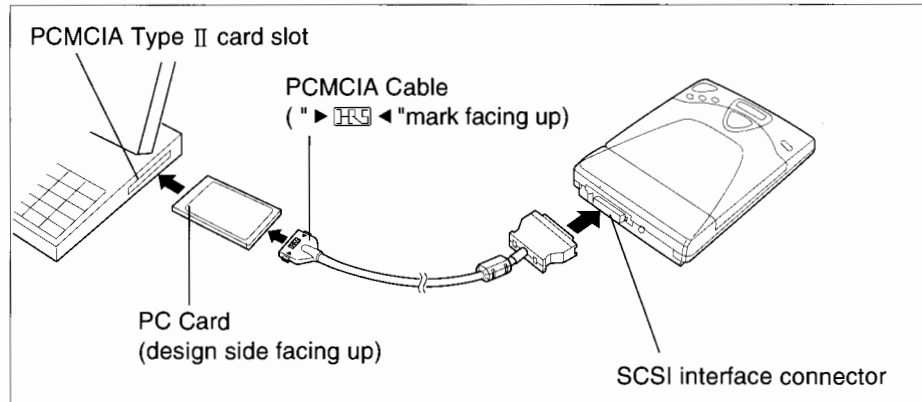
You can connect the player to a notebook computer with a PCMCIA Type II card slot by using the supplied PC Card and PCMCIA Cable.

Note:

- Use only the supplied PC Card and PCMCIA Cable with this player.
- You can hear computer sounds by installing a sound system device (P. 17).

Make sure both the computer and player are off and connect firmly as shown in figure.

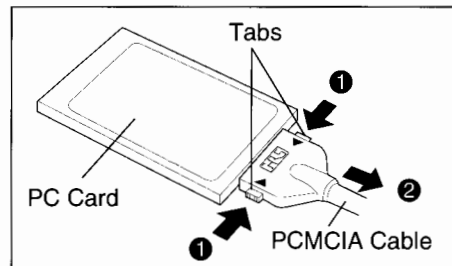
However, using under Windows 95, you can remove or insert the PC Card from/into the PCMCIA card slot of the computer without turning off your computer (P.15, 16).



Note:

- On some computers you might have to insert the PC Card with the design side facing down.
The card is keyed so you will only be able to install it in the correct direction.

■ Disconnecting the PC Card from the PCMCIA Cable:



Pull the PCMCIA Cable while pressing in the side tabs.

Caution:

- Do not pull the PCMCIA Cable by force, since this damages the PC Card.

To a desktop computer

A SCSI board and SCSI cable *1 are required.

For further information, refer to your SCSI interface manual.

If your desktop computer has a PCMCIA card slot, you can connect the player to a computer by using the supplied PC Card and PCMCIA Cable. Refer to "To a notebook computer" (P. 10).

Note:

- *1 • Use a shielded SCSI cable of 1.5 m (4.9 ft.) or shorter.
- Plug the half-pitch or full pitch end of the SCSI cable into the computer and the half-pitch end into the player.

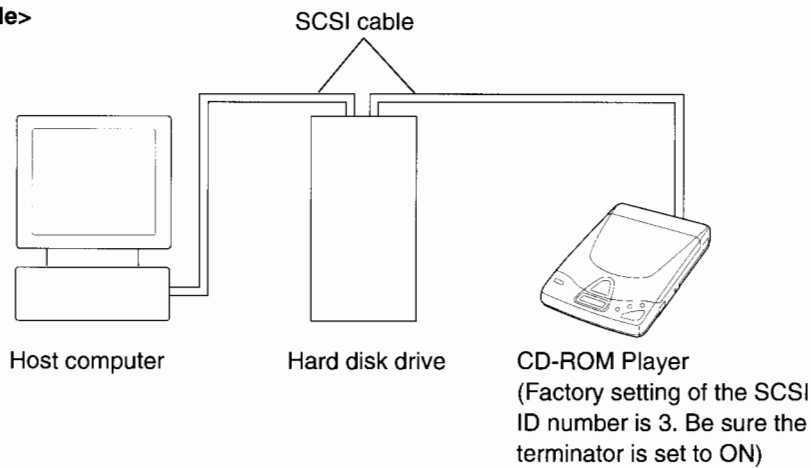
2

■ 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 setting the SCSI ID number and terminator of this player, refer to "SCSI ID Number and Terminator" (P. 26).

<Example>



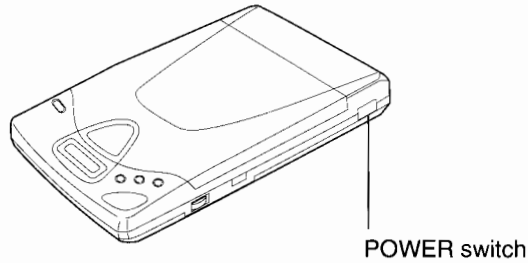
Note:

- You can hear computer sounds by installing a sound system device (P. 17).

Power On

Turn on the player by pressing the **POWER** switch, and then turn on the computer.

A blinking message "on" appears on the display of the player.



- When turning off the player, press the **POWER** switch again.
The display message(s) will disappear.

Note:

- If you turn on the computer before the player, the player cannot be recognized and may not operate.
- If "BUSY" is displayed, do not turn off the player.
(The computer may not operate. In this case, re-set the computer.)
- If the player is not used for an extended period, unplug the AC Adaptor from both the player and AC outlet to save power consumption. (Approximately 1.0 W power is consumed when the player is OFF and the AC Adaptor is connected.)

■ **Power Save Function:**

Your player enters the Sleep Mode under the following conditions to save power.

- When using the player with your computer, if no command is sent to the player from the computer for more than 4 minutes.
- When using the player independently, if a button is not pressed for more than 4 minutes while the player is on standby.

During the Sleep Mode, the laser and spindle motor stop.

The player automatically re-starts when it receives a command from the computer or a button on the player is pressed.

Software Installation

You need to install software so that your computer can read a CD-ROM. Make sure that you have connected the player to your computer (P. 10, 11), and both the player and your computer are turned on (P. 12).

System requirement

The Setup Disk can be used only in an IBM or IBM compatible computer with a 3.5" floppy disk drive.

System requirements:

MS-DOS 6.2, PC DOS 6.3 to 7.0, Windows 95, Windows 3.1, 3.11

Making back-up copy

Before installing the software, it is recommended that you make a back-up copy by referring to your computer's manual and store the original in a safe place.

Installing under DOS

Before installing the software, make sure either of the following is installed. (Only for DOS/Windows 3.1, 3.11 user)

- **Card Manager** (Card Services/Socket Services) [supplied with your computer]
 - When using a computer with PCMCIA card slot.For more information about Card Manager, refer to your computer manual. Even if a Card Manager is not installed and your computer has PCMCIA Controller i82365 100% Compatible LSI, a program (ASPIO365.SYS) that will operate your CD-ROM will be automatically installed.
- **ASPI Manager** [usually supplied with the SCSI board]
 - When using a computer with SCSI board.

Note:

- If you are currently in Windows 3.1, 3.11, please EXIT Windows 3.1, 3.11 for proper software installation.

2

Power On / Software Installation

Software Installation

To install the software in your C drive, follow the steps below:

- 1** Insert the supplied Setup Disk into drive A.
- 2** Type **A:** and press **Enter**.
- 3** Type **INSTDOS** and press **Enter**. The following message appears.

```
CD-ROM Drive Software Installation Program
Version 1.00*1
All Rights Reserved, (C) COPYRIGHT 1996
KYUSHU MATSUSHITA ELECTRIC CO.,LTD.

Press [Esc] to quit, any other key to continue.
```

- 4** Press any key except for **Esc**, and follow the instructions on your computer screen.

After restarting the computer, the following message appears which indicates that the software installation is complete.

Note:

- If you want to confirm a message, press **Pause** to pause the message. To resume, press any key.
- If the message does not appear, refer to "Troubleshooting" (P. 23).

```
CD-ROM Device Driver
KMECD Ver. 1.71*1 (950829)*2
All Rights Reserved, (C) COPYRIGHT 1994 KYUSHU MATSUSHITA ELECTRIC CO., LTD.
(C) Copyright 1994 RATOC System, Inc. Osaka, Japan

CD-ROM SCSI ID NO : 3*3: MATSHITAKME UJDCD850 1.00*1
Device name: PCMCIA CD
```

and then,

```
MSCDEX Version 2.23*1
Copyright (C) Microsoft Corp. 1986-1993. All rights reserved.
Drive D*4: = Driver PCMCIA CD unit 0
```

- *1 Version number may change.
- *2 Date may change.
- *3 SCSI ID number assigned to a CD-ROM drive.
- *4 A drive letter assigned to a CD-ROM drive.

If an error message appears, refer to "Error Messages on the Computer" (P. 21) or "Troubleshooting" (P. 23).

Installing under Windows 95

Check that the PCMCIA Card 32-bit Driver for Windows 95 has been active in your computer and install the software.

Note:

- Do not insert the PC Card into the PCMCIA card slot of your notebook computer before this operation has been done.

■ Checking the PCMCIA Driver

- 1** Power on your computer and start up the Windows 95.
- 2** Double-click the My Computer icon.
- 3** Double-click the Control Panel icon.
- 4** Double-click the PC Card (PCMCIA) icon.

If the status of the PCMCIA Card slot appears :

→ The PCMCIA Card 32-bit Driver has been already active.

- 5** Click **Cancel** to end. (→To the next page)

If the PC Card (PCMCIA) Wizard appears :

→ The PCMCIA Card 32-bit Driver has not been active.

Follow the steps below to activate the driver.

- 5** Select **No** and click **Next >**.
- 6** Click **Next >** again in the next screen.
- 7** Click **Finish**.
System Settings Change window appears.
- 8** Click **Yes** to exit the Windows 95.
- 9** Power on your computer and restart the Windows 95.
(→ To the next page)

Software Installation

After checking the PCMCIA Card 32-bit Driver has been installed (see the previous page), install the software by following the steps below.

■ Installing the software

- 1 Make sure that the PCMCIA Cable is connected to the PC Card and player.** (P.10)
- 2 Power on the player (P.12) and then insert the PC Card into your computer's PCMCIA card slot.**
A "New Hardware Found" window appears only when the inserted card is not previously registered in Windows 95.
- 3 "Driver from disk provided by hardware manufacturer" is selected and click **OK**.**
The "Install From Disk" window appears.
- 4 Insert the supplied Setup Disk into drive A, and then click **OK**.**
The initial screen appears and the driver has been installed.

Plug and Play (Windows 95)

The supplied PC CARD supports "Plug and Play".

You can remove or insert the PC Card from/into the PCMCIA card slot of the computer without turning off your computer.

(However, do not remove the PC Card while "BUSY" is displayed on the player and the computer is running. If you remove the PC card, click the PC card icon of the Task bar and cancel the using of PC card following the screen messages.) If you turn on the computer, Windows 95 will automatically recognize the hardware.

Using the Player with a Computer

After software installation (P. 13), you are ready to play game/photo/audio/video CDs.

Insertion/Removal with Power On (For DOS/Windows 3.1, 3.11)

If your computer has a Card Service, PC Card can be removed or inserted from/into the PCMCIA card slot of the computer without turning off your computer.

However, when you start running your computer, make sure that the PC Card is inserted into the PCMCIA card slot and the player is on. If ASPIO365.SYS and ASPIOMGR.SYS are being used, Insertion/Removal with power on is not possible. With Windows 95, Insertion/ Removal is possible at any time.

Note:

- If your computer has more than one slot, and if you want to re-insert the PC Card, make sure to insert it into the same slot it was inserted before.

Playing a CD-ROM

- To listen to the computer sound of CD-ROM, it needs for the desktop computer user to install Sound Blaster [Creative Technology Ltd.], etc. It is recommended to install the Panasonic Sound Card CF-VEW211 for the notebook computer user.
- To play Video CD or CD-i, Commercial MPEG Boards [REAL Magic LITE (SIGMA DESIGNS Ltd.) is recommended] are required on the computer side.

Note:

- Some CD-ROMs are soundless.
- The computer sound of some CD-ROMs can be listened to only through the PHONES jack of the player.

1. If your sound system device has a Line-in jack:

Connect an audio connecting cable (not supplied) to the Line-in jack of the sound system device and to the PHONES jack of the player.

2. If your sound system device has not a Line-in jack:

Connect your headphones to the PHONES jack of the player.



3

Software Installation /
Using the Player with a Computer

Playing an audio CD

You can play an audio CD with a computer through the following methods.

For DOS users:

Install audio CD control software (not supplied.)

For Windows 3.1, 3.11 users:

Install the device driver "[MCI] CD Audio" (supplied with Windows 3.1, 3.11) and use the Media Player in Accessories.

For details, refer to the manual for Windows 3.1

For Windows 95 users:





Click **start**, then select the menu in order of "Program (P)", "Accessories", "MultiMedia" and use the Media Player or CD Player.

For details, refer to the manual for Windows 95.

You can listen to the audio CD through either of the following methods.

- Connect your headphones or amplified speaker to the PHONES jack of the player.
- Connect one end of an audio connecting cable (not supplied) to the Line-in jack of your sound system device and the other end to the PHONES jack of the player.

Note:

- While playing an audio CD with your computer, buttons ,  and  on the player cannot be used.
- Without displaying "BUSY" on the player, you can stop the CD revolving by pressing the STOP button ().

Using the Player Independently

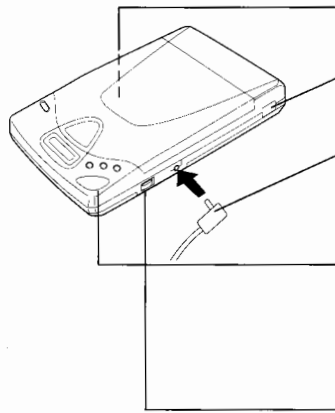
Playing an audio CD



If you are using batteries, you can enjoy listening to music under stable conditions. It is recommended not to play an audio CD while walking or jogging. If you want to play an audio CD without disconnecting from your computer, be sure to open and close the disc cover before playing to guarantee the player's buttons function properly.

WARNING

- Do not use headphones while driving a car. It is illegal in many areas. Headphones may reduce your ability to hear other sounds, and may lead to an accident.





Be sure the **VOLUME** control is set to 2~4 to avoid hearing very loud sound.



- 1 Insert an audio CD (P. 20).
- 2 Press **POWER** switch to turn on the player.
- 3 Plug your headphones (not supplied) into the **PHONES** jack.
- 4 Press  .
While operating audio CDs, the following display appears.
 ← Elapsed time
↑ Audio CD's track number
- 5 Adjust the volume with the **VOLUME** control.

Note:

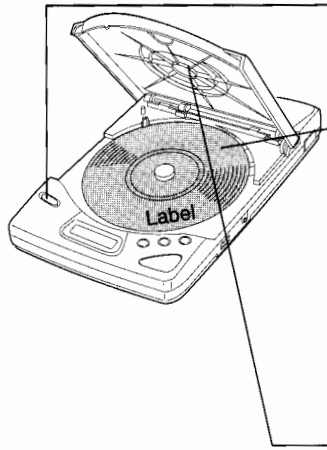
- You can also listen to music by connecting amplified speakers (not supplied).
- If you set the Terminator switch OFF, you can use the player with less power consumption (P. 26).


Button	Function
	Starts/pauses playing an audio CD.
	Skips to the next track by pressing once. Continues skipping tracks if pressed continuously.
	Returns to the beginning of the track being played by pressing once. Skips to the previous track by pressing once when the elapsed time is 00:00. Continues reversing tracks if pressed continuously.
	Stops playing an audio CD.

3

Using the Player with a Computer/
Using the Player Independently

Inserting a CD



1 Press ^{OPEN}  to open the disc cover and then raise it.

2 Match the center hole of the CD to the center spindle and insert the CD so that the signal face of the CD does not touch the outer parts. (If the signal face is damaged, the data on the CD may not read normally.)

Note:


- CD should be placed with the disc's label facing up.

3 Close the disc cover.

Removing a CD

Make sure that the blinking message "BUSY" does not appear on the player's display.



1 Press ^{OPEN}  to open the disc cover and then raise it.

2 Press the center spindle with your finger and remove the CD carefully by picking up the end of the CD.

Note:

- If "BUSY" is displayed on the player while using it with a computer, do not open the disc cover. (The computer may not operate.)
- Replace the CD in its original case.

3 Close the disc cover.

Error Messages on the Computer

When Installing Software

Message	Recommendation
Illegal Directory Name!	<ul style="list-style-type: none">• Do not use more than eight characters.• Do not use invalid characters such as "\", "×", etc.
Disk Error!	<ul style="list-style-type: none">• Make sure that your floppy disk or hard disk is not damaged.• Do not install the CD-ROM Drive Software onto a protected disk.
File not found!	<ul style="list-style-type: none">• Make sure that CD-ROM Drive Software has been installed onto a disk inserted into drive A.
Your computer does not have PCMCIA slot!	<ul style="list-style-type: none">• Re-install the software correctly.• Make sure that your computer has a PCMCIA slot.• Make sure that the connection between your computer and the Card Slot Board has been made properly.
MSCDEX.EXE was not found!	<ul style="list-style-type: none">• Copy MSCDEX.EXE to the directory "DOS" from DOS floppy disk and reset your computer. The path may be invalid.

When restarting the computer after installing software

Refer to the following items of the README File (P. 22).

1. ASPI Manager
2. CD-ROM Device Driver
3. Microsoft MS-DOS CD-ROM Extension (MSCDEX.EXE)

README File

The README File on the supplied Setup Disk contains additional information on system troubleshooting and it is copied to the hard disk (normally to C:\CDRM8) during installation, except for Windows 95.

1. ASPI Manager
2. CD-ROM Device Driver
3. Microsoft MS-DOS CD-ROM Extension (MSCDEX. EXE)
4. Sample CONFIG.SYS Files
5. Supplement
6. Troubleshooting Guide

Read or print this file if you have difficulty installing the CD-ROM player.

Viewing the README.TXT File in DOS

- 1** At the DOS prompt (C:\), type MORE <\CDRM8\README.TXT
- 2** Press **Enter**.

Viewing the README.TXT File in Windows 3.1, 3.11

- 1** Double-click the Notepad icon in Accessories.
- 2** Select "Open" from the File menu.
- 3** Double-click the directory name.
(Normally it is C:\CDRM8)
- 4** Select the file name "README.TXT".
- 5** Click **OK**.

Viewing the README95.TXT File in Windows 95

When installing under Windows 95, the README95 File is not automatically copied to the hard disk. To view the file, follow the instructions below.





- 1** Double-click the My Computer Icon.
- 2** Insert the supplied Setup Disk.
- 3** Double-click the 3¹/₂ Floppy Icon.
- 4** Double-click the README95 Icon.

Troubleshooting

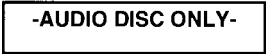




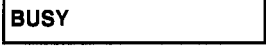
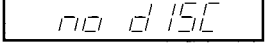
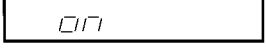

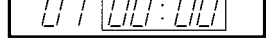
When trouble occurs, check the following points before returning the player for service.

Problem	Possible Cause	Solution
POWER switch is on, but nothing appears on the display.	The AC Adaptor is not plugged into the outlet or DC IN jack correctly.	Plug in the AC Adaptor correctly (P. 9).
	The batteries are not installed correctly or are dead.	Install the batteries properly or replace with new ones (P. 9).
The CD-ROM data is not transmitted to your computer.	The PCMCIA Cable or PC Card is not connected to the player or the computer properly.	Properly connect the PCMCIA Cable or PC Card (P. 10).
	The SCSI Cable is not connected to the player or the desktop computer properly.	Properly connect the SCSI Cable.
	There are duplicate SCSI ID numbers in the computer system.	Set different SCSI ID numbers for each device in your system (P. 26).
	The software is not installed correctly.	Install the software correctly (P. 13).
	The terminator switch of the player is set to OFF.	Turn the terminator switch ON (P. 26).
You cannot listen to sound.	The headphones are not connected.	Connect the headphones to the PHONES jack firmly (P. 19).
	VOLUME control is set to "0".	Set the VOLUME control to a higher level.
Transmission speed of data slows down.	The notebook computer has entered the power management mode.	Set the CPU speed of the notebook computer faster in power management.
	Using alkaline batteries with the computer.	Use the AC Adaptor.

Troubleshooting

Problem	Possible Cause	Solution
The Buttons/ POWER switch of the player do not function.	_____	Disconnect the AC Adaptor / remove the batteries and then connect the AC Adaptor / install the batteries.
"no dISC" message appears on the 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. 17).
	CD without  or  mark is used.	Use CD marked with  or  .
	CD may have become dirty.	Clean the CD (P. 27).
	CD is damaged.	Replace with another CD.
	The player and/or CD are damp or moist, because the player and/or CD may have been moved from a cold place to a warm one.	Remove the CD from the player and do not use the player and CD for 1 hour.

Display Messages on Player

Message/Indicator	Description
	With a CD-ROM inserted in the player, if you press  ,  , or  , a blinking message "AUDIO DISC ONLY" will appear.
	When the battery is low, this blinking indicator will appear.
	When data is being transferred, a blinking message "BUSY" will appear.
	CD is not inserted. CD inserted cannot be recognized.
	When the CD-ROM is inserted, the message "on" is displayed. While the CD-ROM or audio CD is recognizing, a blinking message "on" will appear.
	The disc cover is open.
	An audio CD is recognized.



SCSI ID Number and Terminator

■ SCSI ID number:

Each SCSI device connected to your computer system has an individual ID number (refer to the respective manuals). Normally personal computer's SCSI ID number is set to 7. The factory setting of the CD-ROM player's SCSI ID number is set to 3.

■ Terminator:

Set the Terminator switch ON/OFF according to the player's condition.

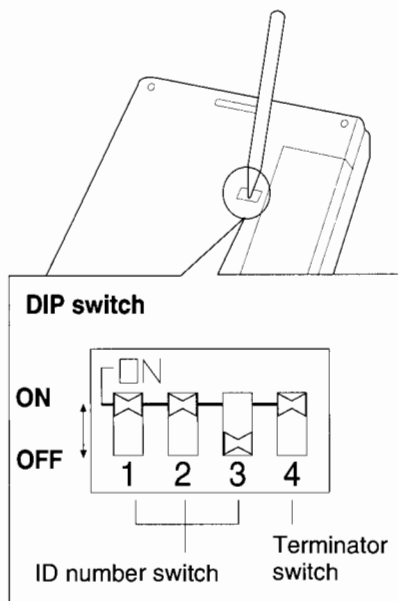
ON: • when the player is connected to the computer system.

OFF: • when using independently as an audio player with battery (P. 19).

The factory setting is **ON**.


Setting

Turn the ID number switch (1~3) or Terminator switch (4) ON/OFF by using a pointed object like a pen, and referring to the table below (for ID number).



(For SCSI ID number setting)

ID number	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.

Example: ID number=3 / Terminator=ON

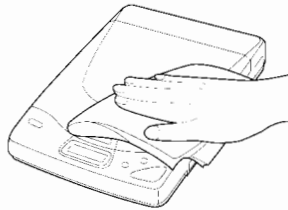
Maintenance

CD-ROM Player

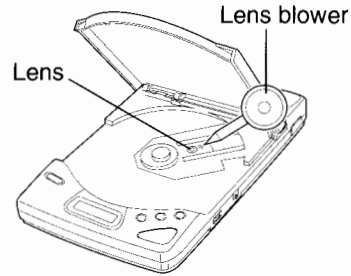
Cautions:

- Do not use benzine, thinner, etc.
- Do not use a 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 labels to the disc.
- Do not write on the surface of the disc with a pointed object like a pen.

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



Specifications

Power Source:	Refer to the nameplate on the bottom of the unit.
Interface:	SCSI-2 (Player), PCMCIA 2.1 (Interface card)
SCSI Connector:	Half-pitch 50-pin
Buffer Size:	128 KB
MPC:	MPC level2, level3 (The capability differs depending on the PC or software.)
Operating Temperature:	5°C {41°F} to 40°C {104°F}
Operating Humidity:	20% to 80% RH
Storage Temperature:	-20°C {-4°F} to 55°C {131°F}
Storage Humidity:	15% to 90% RH
Dimensions:	138 (W) × 196 (D) × 38 (H) mm {5.43" × 7.72" × 1.5"}
Mass {Weight}:	0.435 kg {0.959 lbs.} (without batteries)
Battery Life: (when using Panasonic alkaline "AA" size batteries)	Approximately 4 hours when playing an audio CD at 20°C {68°F} Approximately 2 hours when playing CD-ROM at 20°C {68°F}
Power Consumption:	<ul style="list-style-type: none"> • When playing CD-ROM (with PCMCIA SCSI Card) 14 W [with AC Adaptor] • When the player is off 1.0 W [with AC Adaptor]
Data Transfer Rate: (when using AC Adaptor)	150 KB/s (Normal Velocity mode) 1200 KB/s (8X Velocity mode)*
Access Time:	<ul style="list-style-type: none"> • With AC power source: Access time (8X Velocity mode) 180 ms typical (1/3 stroke) Fullstroke access time (8X Velocity mode) 300 ms typical

*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.

Specifications

Output Connector:	PHONES jack	
Compatible CD-ROM Format:	CD-DA (CD), CD-R, VIDEO CD*, CD-i*, CD Extra CD-ROM (Mode 1 and Mode 2 Form 1) Photo CD Multi-session CD-ROM XA (Mode 2 Form 2)	
Error Rates:	Soft read errors	Less than 10 ⁻⁹
	Hard read errors	Less than 10 ⁻¹²
Audio Performance (Stereo Headphones):	Frequency response	20 Hz~ 20 kHz
	S/N	More than 75 dB (A Range)
	Output level	0.6 Vrms
PC Card and PCMCIA Cable:	Card type	PCMCIA Type II
	Power source	DC 5 V, approximately 80mA (Typ.)
	SCSI Connector	Half-pitch 50-pin
	Cable Length	350 mm (without connector)
	Data transfer rate	7 MB/s (MAX.)
	PCMCIA SCSI Card	
	Dimensions	54 (W) × 85.6 (D) × 5 (H) mm {2.13" × 3.37" × 0.20" }
	Mass (Weight) (with cable)	120 g {0.3 lbs.}

* To use VIDEO CD or CD-i, a MPEG Board (sold separately) is required.

System Requirements

For notebook computers:	<ul style="list-style-type: none"> • IBM and IBM compatible computer • PCMCIA 2.1 (TYPE II) card slot PCMCIA controller i82365 100% compatible LSI or IBM Card Service (PCMCIA 1.07, 2.00) or SystemSoft (PCMCIA 2.01, 2.10) or Phoenix PCPLUS (PCMCIA 2.00, 2.01, 2.10) • MS-DOS 6.2, PC DOS 6.3 to 7.0, Windows 95, Windows 3.1, 3.11
For desktop computers:	<ul style="list-style-type: none"> • IBM and IBM compatible computer with a SCSI Board including ASPI Manager • MS-DOS 6.2, PC DOS 6.3 to 7.0, Windows 95, Windows 3.1, 3.11

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