Panasonic

Multimedia Portable CD-ROM with Sound

Model No. **KXL-D721**

Operating Instructions

Please read before using and store in a safe place.

Thank you for purchasing the Panasonic Multimedia Portable CD-ROM with Sound KXL-D721

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WARNING

• The power source voltage of this 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 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.

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Ad-Lib is a trademark of Ad Lib Inc.

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

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 44 6 µW
Wave length	780 nm
Emission duration	Continuous

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

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

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Table of Contents

Features

- *Portable CD-ROM player with Sound for Notebook Computer*
- *Double Speed External Drive*
  Transfer Rate 300 KB/s
  128 KB Memory Buffer
  Access Time 295 ms with AC Adaptor
  Operates on six (6) "AA" Batteries or AC Adaptor for Player
  Plays Audio CD, Photo CD Multisession Compatible
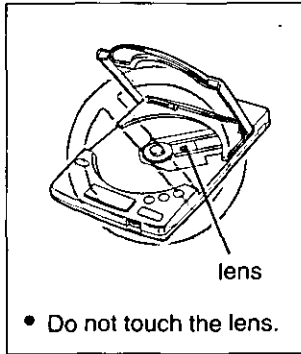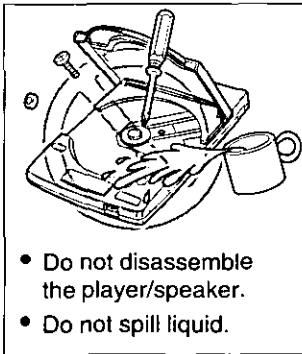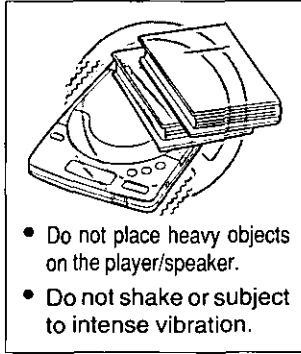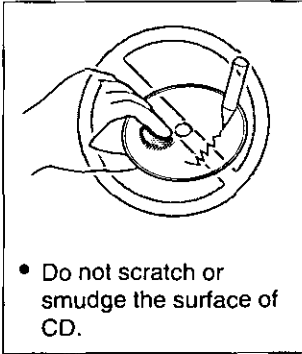- *Compatible with Window 95, Plug and Play PCMCIA Interface Card (Type II)*
- *Sound Blaster FM Sound Source for Windows and DOS Ad-Lib Compatible*
- *16 bit Quality Sound*
- *YAMAHA OPL3 Compatible FM Music Synthesizer*
- *Recording & Playback up to 44 1 kHz CD Quality Stereo Sound*
- *Microphone Included for Recording Voice Annotation*
- *Includes a Wide Array of Sound System Utilities & Audio Clip Library*
- *Includes 2 Compact Stereo Speakers by Battery Operation*

Accessories

Make sure that the following accessories are included with the player

AC adaptor (KX-WZ304) (☞ P 11)	**Sound/CD-ROM interface card** (☞ P 12)	**I/F Box and Cable** (☞ P 12)	**3 5″ Setup Disk #1** **3.5″ Setup Disk #2** (☞ P 16)
Speakers (L)+(R) (☞ P 13)	**Microphone** (☞ P 14)	**"AA" size alkaline batteries × 2** (for R-Speaker) (☞ P 13)	• Operating Instructions • Audio Applications Manual • Warranty card

Precautions

• Do not scratch or smudge the surface of CD.

• Do not place heavy objects on the player/speaker.

• Do not shake or subject to intense vibration.

• Keep disc cover closed to protect from dust.

• Do not disassemble the player/speaker.

• Do not spill liquid.

lens

• Do not touch the lens.

• Do not leave the product in a closed vehicle during hot weather, direct sunlight or near a heater.

• Do not play CD-ROM/audio CD while transporting.

• Do not use near any appliance that may cause vibration.

• Do not place speaker near the appliance which has cathode-ray tube (CRT) display for a long period since the magnetism may affect the CRT.

• Do not crush Sound/CD-ROM Interface Card.
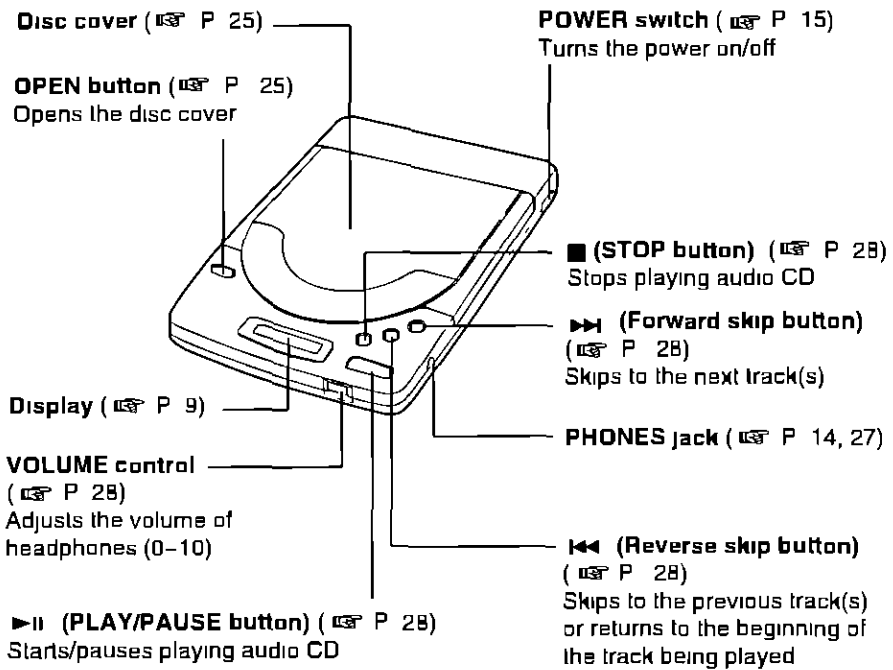
Important:

■ Please use CD-ROMs with the marking below.
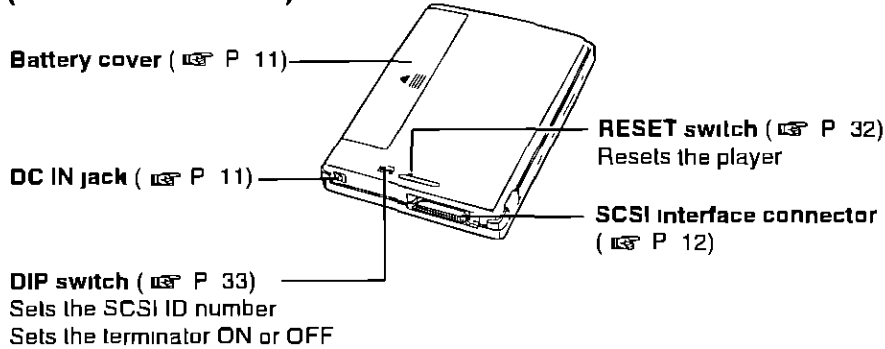
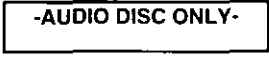■ Please use audio CDs with the marking below.

COMPACT

disc

COMPACT

disc
DIGITAL AUDIO

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Part Names and Functions

(Top view)

Disc cover (☞ P 25)

OPEN button (☞ P 25)
Opens the disc cover

Display (☞ P 9)

VOLUME control
(☞ P 28)
Adjusts the volume of
headphones (0-10)

▶‖ (PLAY/PAUSE button) (☞ P 28)
Starts/pauses playing audio CD

POWER switch (☞ P 15)
Turns the power on/off

■ (STOP button) (☞ P 28)
Stops playing audio CD

▶▶‖ (Forward skip button)
(☞ P 28)
Skips to the next track(s)

PHONES jack (☞ P 14, 27)

‖◀◀ (Reverse skip button)
(☞ P 28)
Skips to the previous track(s)
or returns to the beginning of
the track being played

(Rear/Bottom view)

Battery cover (☞ P 11)

DC IN jack (☞ P 11)

DIP switch (☞ P 33)
Sets the SCSI ID number
Sets the terminator ON or OFF

RESET switch (☞ P 32)
Resets the player

SCSI interface connector
(☞ P 12)

Display messages

Message/Indication	Description
-AUDIO DISC ONLY-	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 indication will appear
BUSY	When data from CD-ROM is sent to your computer, a blinking message "BUSY" will appear
no d/5C	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
on	When CD-ROM is inserted, a message "on" is displayed While CD-ROM or audio CD is recognizing, a blinking message "on" will appear
01 0000	Audio CD is recognized
OPEN	The disc cover is open

Part Names and Functions (Player and Display messages)

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Part Names and Functions

I/F Box
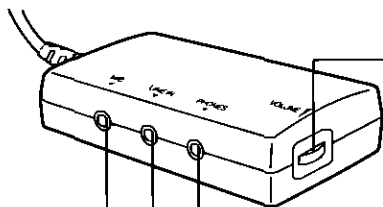
Volume control (☞ P 13)
Adjusts the volume of the speaker or headphones (not supplied) connected to the PHONES jack (0–10)

PHONES jack (☞ P 13)
Connects the supplied R-speaker or headphones (not supplied)

LINE IN jack (☞ P 14)
Connects to the player's PHONES jack or to the output jack of an audio device by using a commercially available audio connecting cable

MIC jack (☞ P 14)
Connects the supplied microphone for voice or music recording

Speakers
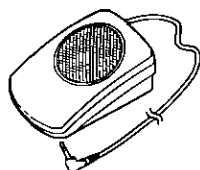
< L-speaker >   < R-speaker >
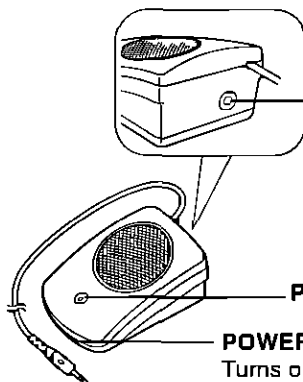
Jack (☞ P 13)
Connects the L (LEFT)-speaker

Power indicator (☞ P 13, 15)

POWER switch
Turns on(┃)/off(⏻) the speaker

< Bottom of R-speaker >

Battery cover (☞ P 13)

10
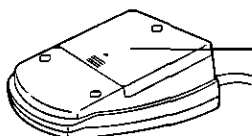
Power Supply

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

Using supplied AC adaptor

AC adaptor
(KX-WZ304)

AC
outlet
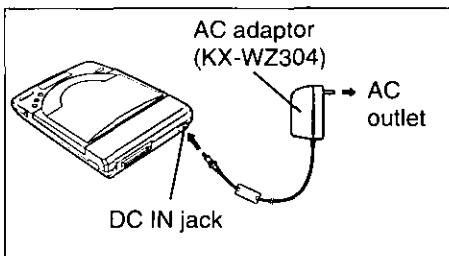
DC IN jack

Connect one end of the AC adaptor to DC IN jack and the other end to household AC outlet.

Caution:

• Use only the supplied AC adaptor (KX-WZ304), since other adaptors may damage the player.

Using batteries (not supplied)

Alkaline batteries are recommended.

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.**

Battery cover ❶

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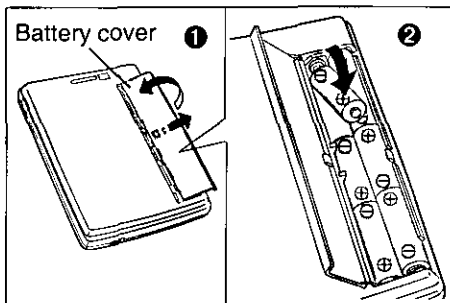
❶ **Open the battery cover by sliding and lifting it up.**

❷ **Install six "AA" size batteries (not supplied).**
Make sure the polarities (+, –) match the diagram.

■ *Replacing the Batteries:*

Removing:
Press
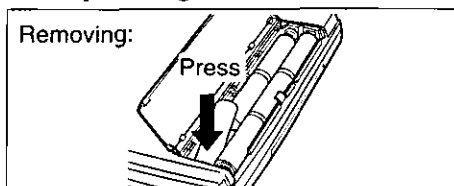
Replace the batteries when blinking mark "⊂▭▭" appears on the display.

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Connection

Connecting player to computer

Make sure that your notebook computer and the player are off and the player's terminator is set to ON (☞ P 33)

1 Connect the cable (" ▶ ☐ ◀" mark facing up) **to the Sound/CD-ROM Interface Card.**

2 Connect the cable to the player's SCSI interface connector

3 Insert the Sound/CD-ROM Interface Card ("Panasonic" side facing up) **to the PCMCIA card slot until it stops**

Note
* On some computers you might have to insert the card with the "Panasonic" side facing down The card is keyed so it can only be installed in the correct direction

■ *Disconnecting Sound/CD-ROM Interface Card:*

Tabs
❶
Card
❶ Cable
❷

Pull the cable while pressing the side tabs of the cable

Caution
* Do not pull the cable by force, since this can damage the card

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Connecting the speakers

Be sure that the power switch of the R-speaker is off and the volume control of the I/F Box is set to the lowest level. You can also connect your headphones to the PHONES jack of the I/F Box.

1 **Install the supplied two "AA" size alkaline batteries into R-speaker.**
Make sure the polarities (+, –) match the diagram.

❶   **❷**

2 **Connect the L-speaker to the jack of the R-speaker.**

3 **Connect the R-speaker to the PHONES jack of the I/F Box.**

Replacing the batteries

When the power indicator on R-speaker glows faintly and the playback sound becomes distorted or unstable, replace the batteries by following the instructions inside the R-speaker.
Please use alkaline batteries.

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 speaker for extended periods.
• **Do not charge, short-circuit, disassemble, heat, or dispose of in fire.**

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Connection

Connecting the microphone

The supplied microphone can be used to make recordings of voices or other acoustical audio sources For the detailed operation, refer to the enclosed Audio Applications Manual

Caution
• Use only the supplied microphone, otherwise proper operation is not guaranteed

Note
• Speakers may howl depending on the setting of the audio application (☞ P 10, 20, 25 in Audio Applications Manual)

Connect the microphone to the MIC jack of the I/F Box
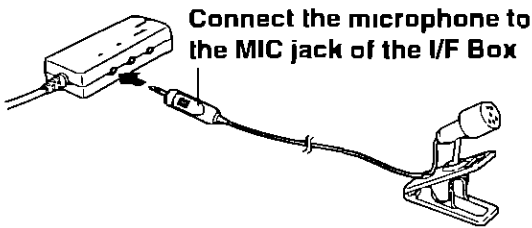
Connecting an audio connecting cable (not supplied)

When you wish to listen to (using the supplied speakers)/record an audio CD or the sound of CD-ROM which comes out of the player's PHONES jack, connect a commercially available audio connecting cable as illustrated in the diagram below
Other audio devices such as tape player can be substituted for the player

Note.
• Whenever you connect/disconnect an audio connecting cable, be sure that the volume of the player and I/F Box are set to the lowest level

2 **Connect the other end of the audio connecting cable to the LINE IN jack of the I/F Box.**

1 **Connect one end of the audio connecting cable to the PHONES jack of the player.**

14
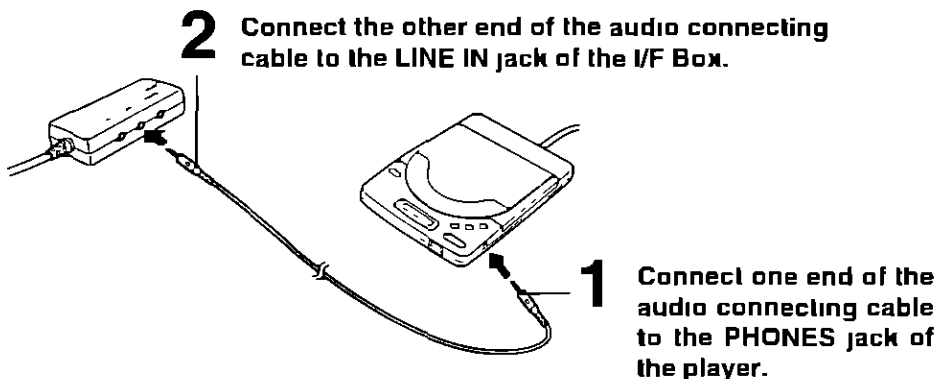
Power On

Player

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.
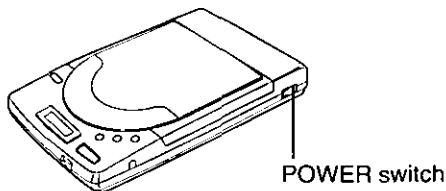
POWER switch

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

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 the power consumption. (Approximately 3.0 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 no button of the player is pressed for more than 4 minutes.

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 of the player is pressed.

Speakers

Turn on the speakers by switching the POWER switch on R-speaker to on (I) position.

Power indicator on R-speaker lights.

Power indicator
POWER switch
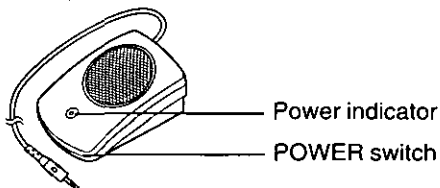
• When turning off the speaker, set the POWER switch on R-speaker to off (⏻) position.

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Connecting the microphone, audio cable / Power On

Software Installation

Before installing software

The supplied Setup Disks contain the drivers for this product and the Audio Applications software

Note
- If you are currently in Windows, please exit Windows for proper software installation

System requirements

The Setup Disks can be used only in an IBM or compatible computer with a 3 5″ floppy disk drive System requirements are
- IBM or IBM Compatible Computer
- 1 PCMCIA Type II Card Slot
- PCMCIA Controller i82365 compatible LSI or IBM Card Service (PCMCIA 1 07, 2 00) or SystemSoft (PCMCIA 2 01, 2 10) or Phoenix PCMPLUS (PCMCIA 2 00, 2 01, 2 10) or CardTalk
- MS-DOS 5 0 to 6 2 or PC DOS 5 0 to 6 3
- Windows 3 1, 3 11 or Windows 95
- 33 MHz 80486 or Faster Micro Processor
- 4 MB of Available Hard Disk Space
- 8 MB RAM Recommended

Note
- This product is not compatible with the notebook computer which has a built-in sound system device

Making back-up copy

Before installing software, it is recommended that you make a back-up copy and store the original in a safe place

Notes
- Use the DISKCOPY command of DOS to make a back-up copy Refer to your DOS manual for further information
- You may find it convenient to install the software directly onto your C drive (hard disk)

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Installing under Windows 3.1, 3.11

Make sure that the necessary devices are connected (☞P. 12~14) and the player and the computer are turned on (☞ P. 15).

1 Start Windows 3.1, 3.11.

2 Insert the supplied Setup Disk #1 into drive A (or B).

3 Select "Run..." from the File menu of the Program Manager.

4 Type A: (or B:)\SETUP and press (Enter).

"Multimedia Sound Kit Install Program" window appears.

5 Click (Continue).

The following window appears.

```
╔═══════════════ Multimedia Sound Kit Install Program ═══════════════╗
║                                                                      ║
║         Choose the desired operation by selecting a button:          ║
║                                                                      ║
║   ┌─────────────────────┐                                            ║
║   │  Driver Installation │  Install drivers and audio applications.  ║
║   └─────────────────────┘                                            ║
║   ┌─────────────────────┐                                            ║
║   │  Configure System    │  Configure drivers.                       ║
║   └─────────────────────┘                                            ║
║   ┌─────────────────────┐                                            ║
║   │Application Installation│ Install audio applications.             ║
║   └─────────────────────┘                                            ║
║   ┌─────────────────────┐                                            ║
║   │        Exit          │  Exit the Install program.                ║
║   └─────────────────────┘                                            ║
║                                                                      ║
╚══════════════════════════════════════════════════════════════════╝
```
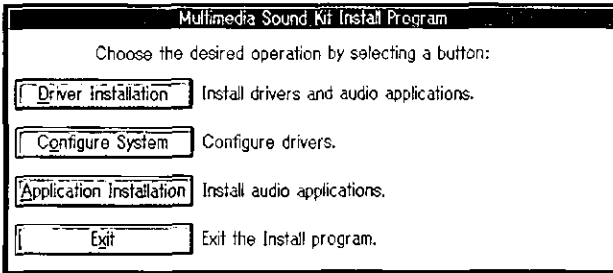
• If you want to install the drivers and Audio Applications software, go to next step.
• If you want to change the previous settings, select "Configure System" and follow the instructions on computer.
• If you want to install only Audio Applications software, select "Application Installation" and follow the instructions on computer.
• If you want to exit the install program, select "Exit" and follow the instructions on computer.

Before installing software /
Installing software under Windows 3.1, 3.11

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6 Click (**Driver Installation**)   "Driver Installation" window appears

```
╔═════════════════Driver Installation════════════════╗
║                                                      ║
║  If you want to install the software in a different directory  ║
║  type the name of the directory below                ║
║                                                      ║
║  Boot Drive      Windows Directory                   ║
║  ┌───────┐ ┌─┐   ┌──────────────────────────────┐    ║
║  │I-c-I  │ │▲│   │C \WINDOWS                    │    ║
║  └───────┘ └─┘   └──────────────────────────────┘    ║
║  Destination Directory                               ║
║  ┌──────────────────────────────────────────────┐   ║
║  │C \KMESOUND                                   │   ║
║  └──────────────────────────────────────────────┘   ║
║        ┌──────OK──────┐     ┌──────Exit──────┐       ║
║        └──────────────┘     └────────────────┘       ║
╚══════════════════════════════════════════════════════╝
```
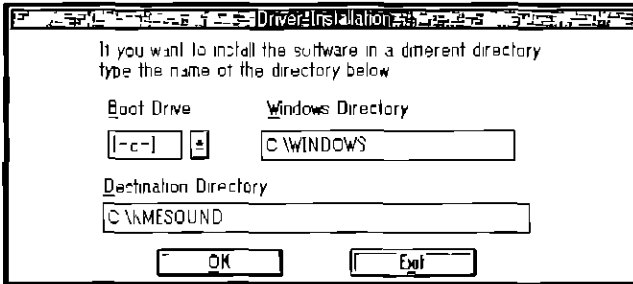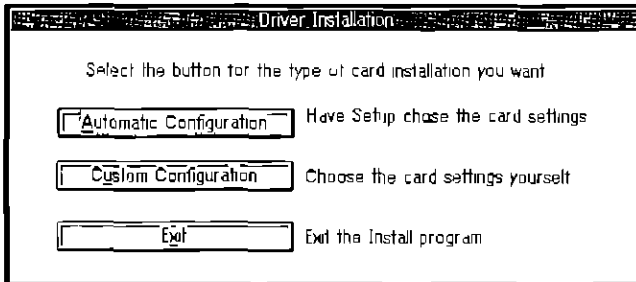
The default directory is **KMESOUND** If you want to install the driver in a different directory, type the directory name and go to next step

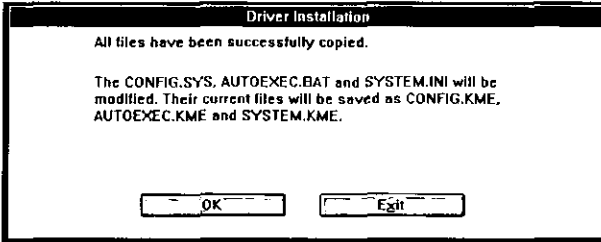**7** Click (**OK**)   The following window appears

```
╔═════════════════Driver Installation════════════════╗
║                                                      ║
║  Select the button for the type of card installation you want  ║
║                                                      ║
║  ┌──Automatic Configuration──┐  Have Setup chose the card settings  ║
║  └───────────────────────────┘                       ║
║  ┌───Custom Configuration────┐  Choose the card settings yourself   ║
║  └───────────────────────────┘                       ║
║  ┌──────────Exit─────────────┐  Exit the Install program            ║
║  └───────────────────────────┘                       ║
║                                                      ║
╚══════════════════════════════════════════════════════╝
```

* Unless you need to configure the card settings yourself, select "Automatic Configuration" to install the hardware driver
* If you encounter problems after installing software, select "Custom Configuration" and change the settings
* If you want to exit the install program, select "Exit" and follow the instructions on computer
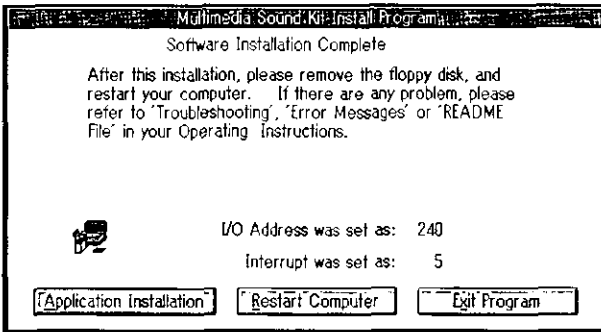
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8 Click [Automatic Configuration].

After copying files, the following message appears.

```
                    Driver Installation
  All files have been successfully copied.

  The CONFIG.SYS, AUTOEXEC.BAT and SYSTEM.INI will be
  modified. Their current files will be saved as CONFIG.KME,
  AUTOEXEC.KME and SYSTEM.KME.


        [       OK       ]    [       Exit       ]
```

9 Click [OK].

"Multimedia Sound Kit Install Program" window appears.

```
                Multimedia Sound Kit Install Program
               Software Installation Complete
  After this installation, please remove the floppy disk, and
  restart your computer.   If there are any problem, please
  refer to 'Troubleshooting', 'Error Messages' or 'README
  File' in your Operating Instructions.

           I/O Address was set as:   240
           Interrupt was set as:     5
  [ Application Installation ]  [ Restart Computer ]  [ Exit Program ]
```

- If you want to install the Audio Applications software, go to next step.
- If you want to exit the install program, select "Exit Program", exit the Windows, remove the Setup Disk #1 and then restart you computer.
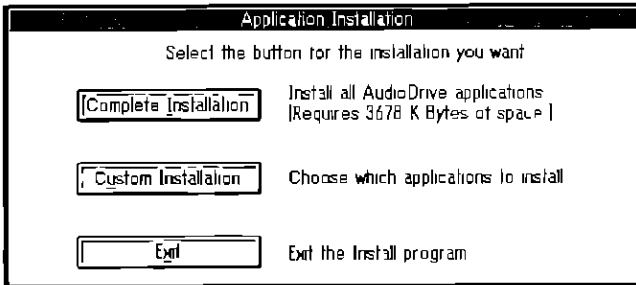
Software Installation

10 Click [**Application Installation**].

"Application Installation" window appears

```
▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓Application Installation▓▓▓▓▓▓▓▓▓▓▓▓▓▓▓

   Setup will install the audio applications in the following
   directory
   If you want to install the software in a different directory
   type the name of the directory below
   Destination Directory
   [ C:\PCAUDIO ]
           [   OK   ]        [   Exit   ]
```

The default directory is PCAUDIO If you want to install the Audio Applications in
a different directory, type the directory name, and go to next step

11 Click [**OK**]   The following window appears

```
                    Application Installation
       Select the button for the installation you want

   [ Complete Installation ]   Install all AudioDrive applications
                               [Requires 3678 K Bytes of space ]

   [  Custom Installation  ]   Choose which applications to install

   [          Exit         ]   Exit the install program
```

• If you want to install all Audio Applications software, go to next step
• If you want to select some Audio Applications, select "Custom Installation" and
  follow the instructions on computer
• If you want to exit the install program, select "Exit" and follow the instructions on
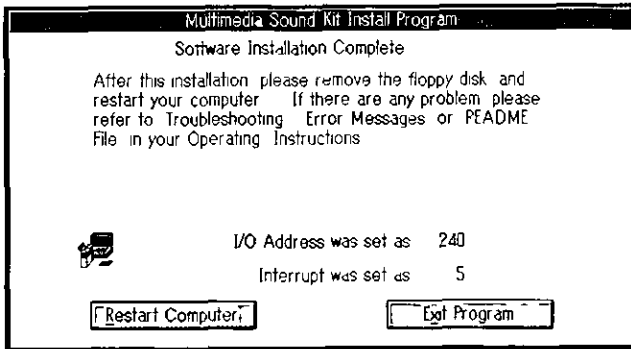 computer

20

12 Click (**Complete Installation**)

While copying files, the following "Confirm" window appears

```
┌─────────────────────────────────────────────┐
│ ▬         ▓▓▓▓▓▓▓▓Confirm▓▓▓▓▓▓▓▓            │
├─────────────────────────────────────────────┤
│                                               │
│  Please insert Disk #2 and press OK button    │
│  when ready                                   │
│                                               │
│        ┌──────────┐    ┌──────────┐           │
│        │   OK     │    │  Cancel  │           │
│        └──────────┘    └──────────┘           │
│                                               │
└─────────────────────────────────────────────┘
```
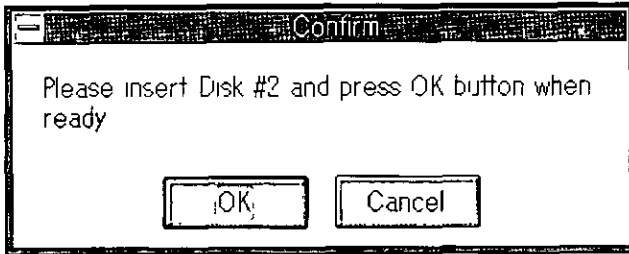
13 Remove the Setup Disk #1 and insert the Setup Disk #2, and then click (**OK**)

After copying files, "Multimedia Sound Kit Install Program" window appears

```
┌─────────────────────────────────────────────┐
│        Multimedia Sound Kit Install Program   │
│             Software Installation Complete     │
│                                               │
│  After this installation please remove the floppy disk and │
│  restart your computer   If there are any problem  please  │
│  refer to Troubleshooting  Error Messages  or  README      │
│  File in your Operating Instructions                       │
│                                               │
│   ▨      I/O Address was set as   240         │
│          Interrupt was set as     5           │
│                                               │
│  ┌─────────────────┐    ┌─────────────────┐   │
│  │ Restart Computer│    │  Exit Program   │   │
│  └─────────────────┘    └─────────────────┘   │
└─────────────────────────────────────────────┘
```

14 Click (**Exit Program**) and exit the Windows

15 Remove the Setup Disk #2 and then restart your computer.

Installing software under Windows 3 1, 3 11

Installing under Windows 95

Installing drivers

Three kinds of drivers need to be installed. To install these drivers, follow the instructions below.

1 Power on your computer.

Windows 95 automatically starts.

2 Power on the player (☞ P. 15) and insert the Sound/CD-ROM Interface Card to your computer's PCMCIA card slot (☞ P. 12, step 3).

"New Hardware Found" window appears only when the inserted card is not previously registered in Windows 95.

3 Click (OK).

"Driver from disk provided by hardware manufacturer" is selected and "Install From Disk" window appears.

4 Insert the supplied Setup Disk #1 into drive A (or B), and click (OK).

"New Hardware Found" window appears.

5 Click (OK).

"Install From Disk" window appears.

6 Click (OK).

"New Hardware Found" window appears.

7 Click (OK).

"Install From Disk" window appears.

8 Click (OK).

The initial screen appears and the drivers have been installed.

- If you want to install the Audio Applications software, perform the following steps (☞ P. 23).

Installing Audio Applications software

1 **Double-click the My Computer icon**

2 **Double-click the 3½ Floppy icon**

3 **Double-click the Setup icon**
"Application Installation" window appears

4 **Click [Install].**
"Application Installation" window of step 10 (☞ P 20) appears

5 **Follow the steps 11 to 13 (☞ P 20, 21)**

6 **Remove the Setup Disk #2 and then restart your computer.**

Installing software under Windows 95

Installing Windows 95 using the player

The Windows 95 operating system can be installed by inserting the Windows 95 CD-ROM into the player

1 Install the software by following the steps 1 to 15 (☞ P 17–21).

2 Insert the Windows 95 CD-ROM into the player

3 Start Windows 3 1, 3 11.

4 Select "Run " from the File menu of the Program Manager

5 Type D \SETUP and press ⎡Enter⎤.

(D drive letter assigned to a CD-ROM drive for example)
Windows 95 installation will complete
However, the KXL-D721 DOS driver will currently be in use by Windows 95 This does not yield optimum performance therefore, the KXL-D721Windows 95 driver should be installed by performing the following steps (☞ steps 6 to 9 below)

6 The following message appears when SETUP is completed

System Properties/Performance
ASPISMGR in CONFIG SYS forces MS-DOS compatibility mode Compatibility mode paging reduces overall system performance
PC Card (PCMCIA) devices are not using 32-bit support

Click ⎡OK⎤ to ignore this message Meanwhile, PCMCIA controller chip (i82365) is unavailable on Windows 95

7 Double click the PC Card (PCMCIA) icon inside the Control Panel to enable PCIC (PCMCIA controller chip) on Windows 95.

8 When prompted by the PC Card Wizard, select ⎡No⎤ and select ⎡Next>⎤. Then select ⎡Next>⎤ again

9 Then restart your computer, in order to enable 32 bit- support, click ⎡Finish⎤.

To install the software under Windows 95, refer to "Installing under Windows 95" (☞ P 22)

If you need more information, please refer to SETUP TXT file or GENERAL TXT file of Windows 95 about installing Windows 95 CD-ROM

Inserting / Removing a CD

Inserting a CD

To insert your CD, follow the instructions below

3 Close the disc cover.

2 Place a CD onto the center spindle, and press on the inner most part of CD.

Note
• CD should be placed with the disc's label facing up

1 Press ⊂⊃ to open the disc cover.

Removing a CD

After CD-ROM operation has finished, remove the CD by following the instructions below
Make sure that a blinking message "BUSY" does not appear on the player's display
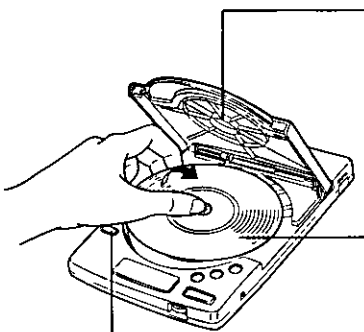
3 Close the disc cover

2 Carefully remove the CD by pressing the center spindle and lifting

Note
• Replace the CD in its original case

1 Press ⊂⊃ to open the disc cover

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CD-ROM / Audio CD Operation

After installing the software (☞ P 16), if you start your computer, you are ready to enjoy game/photo/audio CDs including the Audio Applications For details about the Audio Applications operation, refer to the enclosed Audio Applications Manual

Insertion/Removal with Power On (for DOS/Windows 3.1, 3 11)

If your computer has a Card Service, the Sound/CD-ROM Interface Card can be removed or inserted from/into the PCMCIA card slot of the compuer without turning off your computer However, when you start running your computer, make sure that the Sound/CD-ROM Interface Card is inserted into the PCMCIA card slot and the CD-ROM player is on If ASPIS365 SYS and ASPISDBK SYS are being used, Insertion/Removal with power on is not possible

Note

* If your computer has more than one slot, and if you want to re-insert the Sound/CD-ROM Interface Card, make sure to insert it into the same slot it was inserted before

Plug & Play (for Windows 95)

Windows 95 supports Plug & Play function as the new feature
This Sound/CD-ROM Interface Card supports this feature You can plug/remove this card in/from your computer When you turn on your computer, Windows recognizes and sets up your hardware automatically

CD-ROM operation

Before operation make sure that the Sound/CD-ROM Interface Card and I/F Box are connected to your computer and to the player properly and all other necessary audio devices are connected (☞ P 12–14) The player should be ON when the computer is turned on

Notes
* Some CD-ROMs are soundless
* The computer sound of some CD-ROMs can be listened through the player's PHONES jack Connect a commercially available audio connecting cable to the player's PHONES jack and to the I/F Box's PHONES jack (☞ P 14)

Audio CD Operation

Before operation make sure that the Sound/CD-ROM Interface Card and I/F Box are connected to your computer and to the player properly, and all other necessary audio devices are connected (☞ P. 12~14). The player should be ON when the computer is turned on.

Listening to an audio CD

You can listen to your audio CD through either the attached speakers or your headphones (not supplied).

■ *Using the Speakers:*

After connecting the speakers (☞ P. 13), connect a commercially available audio connecting cable to the player's PHONES jack and to the I/F Box's PHONES jack (☞ P. 14).

■ *Using your headphones:*

Connect it to the player's PHONES jack as the diagram illustrated below.
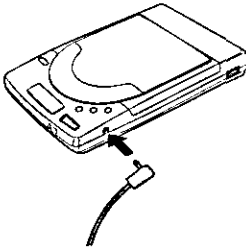
Note:
* Before playing an audio CD, make sure that the volume control of the player and/or I/F Box is set to lower level to avoid hearing very loud sound.

Playing an audio CD on computer

After inserting your audio CD into the player (☞ P. 25), you can enjoy playing your audio CD on your computer. If you are using DOS, install **audio CD control software** (not supplied) to operate an audio CD on computer. Media player (included with Windows) can also be used to listen to audio CDs.

Note:
* While playing an audio CD on your computer, you can not use ◯ , ◯ , ◯

and ⬚ buttons on player.

CD-ROM/Audio CD operation

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Playing an audio CD on player

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 set the player into stand alone play mode

Caution
* It is not safe to listen to headphones while driving a car

Be sure the volume control is set to lower level to avoid hearing very loud sound and all necessary devices are connected (☞ P 12–14)
You can play your audio CD by referring to the following table

Button	Function
►❚❚	Starts/pauses playing an audio CD
►►❙	Skips to the next track by pressing once
	Continues skipping tracks if you hold down
❙◄◄	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 you hold down
■	Stops playing an audio CD

Error Messages on Computer

When installing the software

The following messages appear only under Windows 3 1, 3 11

Message	Solution
The directory you typed is invalid	Use less than eight characters
Please type a full path with drive letter for example "C \KMESOUND"	Use only valid characters (refer to the DOS manual)
CONFIG SYS dose not exist in specified Drive	Specify the name of the drive containing CONFIG SYS in Boot Drive
Could not find the file *[Filename]* Please type the directory to look for this file	File indicated in [Filename] is not found Set the directory containing this file
Specified Window directory does not exist	Specify the correct directory-name in Windows Directory
PCMCIA Controller is not found Installation will be terminated	Make sure that your computer has PCMCIA slot
	Make sure that connection between your computer and card slot board has been made properly

README File

The README File on the supplied setup disk contains additional information on system troubleshooting and is copied to the hard disk (normally to C:\KMESOUND) during installation except Windows 95.

Read or print this file if you have difficulty installing the CD-ROM drive or sound function.

Viewing the README.TXT File in DOS

1 At the DOS prompt (C:\), type MORE <\KMESOUND\README.TXT

2 Press (Enter).

Viewing the README.TXT File in Windows 3.1, 3.11

1 Double-click the Notepad icon of Accessories.

2 Select "Open" from the File menu.

3 Double-click the copied directory name.
(Normally it is C:\KMESOUND)

4 Select the file name "README.TXT".

5 Click (OK).

Viewing the README.TXT File in Windows 95

In case of Windows 95, README File is not 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 #1.

3 Double-click the 3½ Floppy icon.

4 Double-click the README icon.

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Troubleshooting

Check the following points before returning the unit for service

Trouble	Possible Cause	Solution
Turn on the player's 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 11)
	The batteries are not installed into player correctly, or dead	Install the batteries into player properly or replace with new ones (☞ P 11)
The data of CD-ROM is not transmitted to your computer	Connection between the player and the computer is improper	Connect Sound/CD-ROM Interface Card and I/F Box to the player and to the computer properly (☞ P 12)
	There are duplicate SCSI ID numbers in computer system	Set different SCSI ID number for each device in your system (☞ P 33)
	The software is not installed correctly	Install the software correctly (☞ P 16)
	The interface cable of pin is bent or broken	Contact an Authorized Panasonic Service Center
	Terminator of the player is set to OFF when using the player with the I/F Box attached	Set the terminator of the player to ON (☞ P 33)
No sound can be listened or Power indicator on R-speaker does not light	The Speaker's POWER switch is turned off	Turn on the Speaker's POWER switch
	The batteries are not installed into R-speaker correctly, or dead	Install the batteries into R-speaker properly or replace with new ones (☞ P 13)
	Headphones/Speakers are not connected	Connect the headphones to the player's PHONES jack firmly or connect the speaker to the I/F Box's PHONES jack (☞ P 13, 27)
	Volume control of player or I/F Box are set to "0"	Set the volume control to a higher level
	L-speaker is not connected to R-speaker	Connect L-speaker to R-speaker properly (☞ P 13)
	Volume is set to the lowest level or Mute is selected in the Volume Control/Mixer application	Set the volume to a higher level or turn off the Mute in the Volume Control/Mixer application (☞ P 19, 20 in the Audio Applications Manual)

README File / Troubleshooting

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Troubleshooting

Trouble	Possible Cause	Solution
Transmission speed of data slows down	When using the batteries, the notebook computer has entered the power management mode	Set the CPU speed of the notebook computer faster in power management or use the AC adaptor
Buttons/POWER switch of player do not function		Press RESET switch located at the bottom by using a pointed object like a pen
"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 25)
	CD without ⊙disc or ⊙disc mark is used	Use the CD marked with disc or disc
	CD may have become dirty	Clean the CD (☞ P 34)
	CD is damaged	Replace with another CD
	The player or/and CD are moistened, because the player or/and CD may be moved from a cold place to a warm place	Remove the CD from the player and leave it out for 1 hour
You can not record using Microphone	Microphone is not connected to the MIC jack properly	Connect the Microphone to the MIC jack properly (☞ P 14)
	Volume of Mic is set to the lowest level or Mute is selected in the Recording Control application	Set the volume of Mic to a higher level or turn off the Mute in the Recording Control application (☞ P 17 in the Audio Applications Manual)
Windows 95 computer does not recognize CD-ROM	The Sound/CD-ROM Interface Card is not fully inserted, or the player is not turned on	After turning on the player, open the My Computer, Control Panel, System and then Device Manager and click "Refresh"
Speakers howl	The volume of Mic is set too high, or the Record Monitor is on	Lower the volume of Mic, mute the Record Monitor in Recording Control application or lower the volume of I/F Box (☞ P 17 in the Audio Applications Manual)

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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). Be sure that the CD-ROM SCSI ID# does not conflict (is not the same) as another SCSI device connected to the computer system. Normally personal computer's SCSI ID number is set to 7.
The factory setting for the CD-ROM drive is SCSI ID #5.

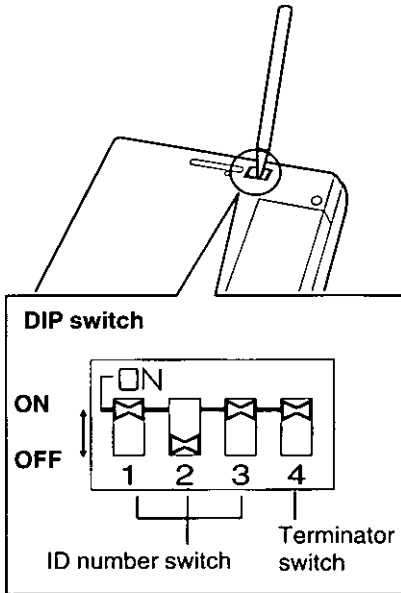## ■ Terminator:

Set the Terminator switch ON or 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.

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).

DIP switch

ON
OFF
1 2 3 4
ID number switch   Terminator switch

Example: ID number=5/Terminator=ON

(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.
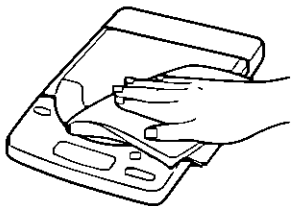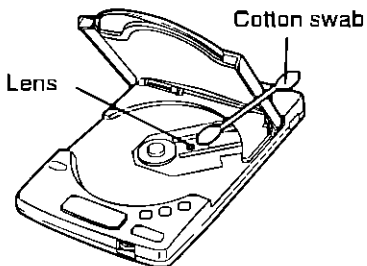
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Maintenance

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 Cotton swab Lens

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

Specifications

Operating Temperature	5°C {41°F} to 35°C {95°F}
Operating Humidity	20% to 85% RH
Storage Temperature	–20°C {–4°F} to 55°C {131°F}
Storage Humidity.	15% to 85% RH
Player.	
Dimensions	138 (W) × 204 (D) × 35 (H) mm {5 52″ × 8 16″ × 1 4″}
Mass {Weight}	0 39 kg {0 878 lb } (without batteries)
Power Source	Refer to the nameplate at the bottom of the unit
Interface	PCMCIA/SCSI I, II
Buffer Size	128 KB
Battery Life	Approximately 4 hours when playing audio CD at
(when using Panasonic	20°C {68°F}
alkaline "AA" size)	Approximately 2 hours when playing CD-ROM at
	20°C {68°F}
Power Consumption	•When playing CD-ROM
	12 W [with AC adaptor]
	4 2 W [with battery]
	•When playing audio CD
	6 5 W [with AC adaptor]
	2 8 W [with battery]
	•When player is off
	3 0 W [with AC adaptor]
Data Transfer Rate	150 KB/s (Normal Velocity mode)
	300 KB/s (Double Velocity mode)
Access Time	• With AC power source
	Access time*1 (Double Velocity mode)
	295 ms typical (1/3 stroke)
	Fullstroke access time*2 (Double Velocity mode)
	380 ms typical
	• With battery
	Access time*1 (Double Velocity mode)
	320 ms typical (1/3 stroke)
	Fullstroke access time*2 (Double Velocity mode)
	400 ms typical

*1 Access time, Average data read over the complete area from 00′ 02″ 00 block to 1/3 stroke track

*2 Fullstroke access time, Average data read over the complete area from 00′ 02″ 00 block to 59′ 58″ 74 block

The above information (*1, *2) is based on the test results measured by Panasonic internal test software

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Specifications

Player:	
Output Connector:	PHONES jack
Compatible CD-ROM Format:	CD-DA (CD) 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 80 dB (A Range) Output level 0.6 Vrms Audio CD Operation Play/Pause, Stop, Reverse skip, Forward skip Volume control Rotary (0–10)
Sound/CD-ROM Interface Card:	
Dimensions:	54 (W) × 85.6 (D) × 5 (H) mm {2.13″×3.37″×0.20″}
Mass [weight]:	0.04 kg {0.088 lb.} without cable
Card type:	Type II
DTE interface:	PCMCIA 2.1/JEIDA 4.2
Power source:	DC5V, approximately 160 mA
I/F Box and cable:	
Dimensions:	77 (W) × 45 (D) × 20.5 (H) mm{3.03″×1.77″×0.81″}
Mass [weight]	0.13 kg {0.286 lb.} with cable
Cable length:	I/F Box side: 200 mm (not including connector) Player side: 500 mm (not including connector)
Mic (Monaural) Input level:	200 mVrms or lower (impedance 2 k Ω or higher)
Line in (stereo) Input level:	1.2 mVrms or lower (impedance 30 k Ω or higher)

Phones out (stereo)
  Output level:
  Frequency response:
  Volume control:
	15 mW or lower
	±3 dB
	Volume Rotary (0–10)

Specifications

Speakers:	
Dimensions for 2 units:	68.2 (W) × 101 (D) × 45.8 (H) mm {2.69"×3.98"×1.80"}
R-speaker	
mass {weight}:	0.13 kg {0.286 lb.} (without batteries)
cable length:	800 mm (without connector)
impedance:	4 Ω
L-speaker	
mass {weight}:	0.1 kg {0.22 lb.}
cable length:	800 mm (without connector)
impedance:	4 Ω
Power Output:	0.2 W+0.2W (stereo speaker amplifier)
Battery power indicator:	Red LED indication on R-speaker
Battery type:	"AA" size alkaline battery × 2 into R-speaker
Battery life:	Approximately 30 hours
	when using Panasonic "AA" size alkaline battery under the condition of 18 mW+18 mW output at 20°C (68 °F)
Battery power on/off:	In front of R-speaker only (Battery only supplies power to speaker amplifiers. Power for Sound/CD-ROM Interface Card and I/F Box is supplied from PCMCIA slot.)
Sound:	
Number of quantization bits:	8 bit, 16 bit monaural/stereo recording
Sampling frequency:	5.5, 8, 11.025, 22.05, 44.1 kHz (Selectable)
Sound source:	FM synthesis (YAMAHA OPL 3 compatible) PCM (CODEC) (Recording and playing method)
Software compatibility:	•WAVE (recording/playback) and MIDI (playback) performed using Windows-compatible audio device driver •Sound Blaster FM sound source for Windows and Ad-Lib for DOS compatible

Specifications

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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

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.

MODEL NO. **KXL-D721**   NAME OF DEALER _____

SERIAL NO. _____   DATE OF PURCHASE _____

**Panasonic Communications & Systems Company,
Computer Products Division
Division of Matsushita Electric Corporation of America**
Two Panasonic Way, Secaucus, New Jersey 07094

**Panasonic Sales Company
Division of Matsushita Electric of Puerto Rico, Inc.**
San Gabriel Industrial Park, 65th Infantry Avenue KM. 9.5
Carolina, Puerto Rico 00630

Matsushita Electric of Canada Limited
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Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan