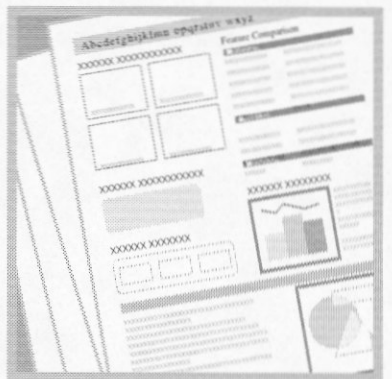
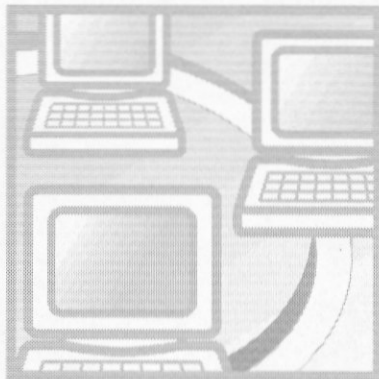
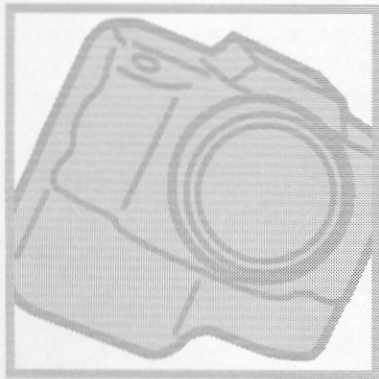
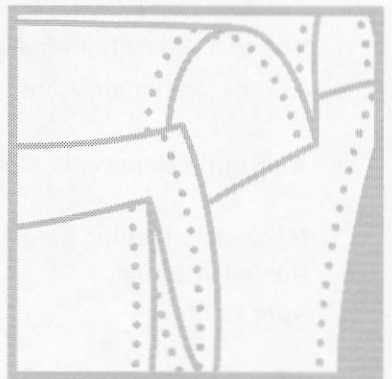
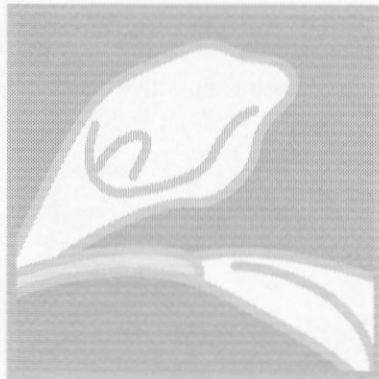
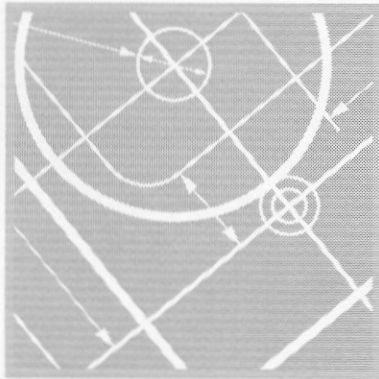
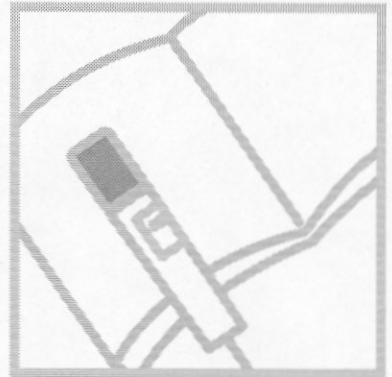
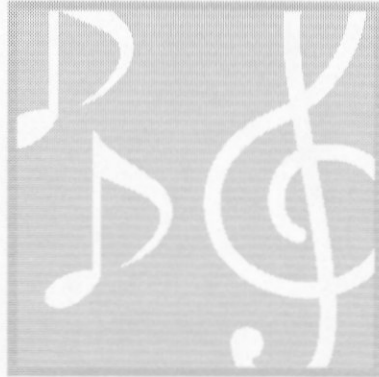
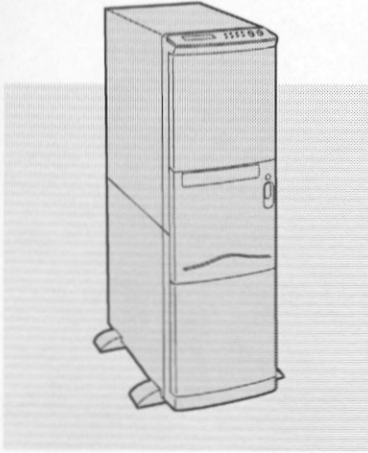


Panasonic

PD/CD-ROM Library Operating Instructions

Model **LF-J100A2**



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All other trademarks are property of their respective owners

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Matsushita Electric Industrial Co , LTD 1996
Printed in Japan
April 1996

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IMPORTANT SAFETY NOTICE

● FEDERAL COMMUNICATIONS COMMISSION (FCC) RADIO FREQUENCY INTERFERENCE STATEMENT

Class A Digital Device

Note :

This equipment has been tested and found to comply with the limits for a Class A Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Warning :

To assure continued FCC emission limit compliance, use only the provided grounded power supply cord and the shielded interface cable when connecting this device to the computer. Also, any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

For U.S.A.

LASER PRODUCT

Class I LASER Product

- This equipment is certified to comply with DHHS Rule 21 CFR Chapter I, Subchapter J in effect as of date of manufacture. (For U.S.A. only.)

This equipment is classified as a Class I LASER Product and there is no hazardous LASER radiation with the safety protection.

Caution :

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Do not open the top cover of the PD/CD-ROM Library and never touch the internal parts in order to avoid EXPOSURE TO INVISIBLE LASER RADIATION.
- When the power switch is On, do not place your eyes close to the front panel opening door and other opening to look onto the inside of the PD/CD-ROM Library.

LASER Specification

Class I LASER Product

Wave Length: 775 - 820 nm

Laser Power: No hazardous radiation is emitted with the safety protection.

● **INDUSTRY CANADA (IC)
STATEMENT OF CANADIAN INTERFERENCE-CAUSING
EQUIPMENT STANDARD**

Class A Digital Apparatus

Notification :

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Notification :

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

For CANADA

PRODUIT LASER

Produit laser de Classe I

- Cet appareil est certifié conforme à l'ordonnance DHHS 21 CFR, Chapitre I, Sous-chapitre J en vigueur à la date de fabrication. (Pour les E-U uniquement)

Cet appareil est classé comme produit LASER de classe I et il n'émet pas de rayonnement LASER dangereux avec la protection de sécurité.

Attention :

L'utilisation de commandes ou les réglages ou l'exécution de procédures autres que ceux spécifiés ci-après peuvent entraîner un risque d'exposition à un rayonnement dangereux.

- Ne pas ouvrir le couvercle supérieur de la Bibliothèque PD/CD-ROM et ne jamais toucher les pièces internes pour éviter tout risque D'EXPOSITION AU RAYONNEMENT LASER INVISIBLE.
- Lorsque l'appareil est sous tension, ne pas approcher les yeux de la porte d'ouverture du panneau avant ni des autres orifices pour regarder à l'intérieur de la Bibliothèque PD/CD-ROM.

Spécification LASER

Produit LASER de classe I

Longueur d'onde: 775 - 820 nm

Puissance du laser: Aucun rayonnement dangereux n'est émis avec la protection de sécurité.

IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord for this PD/CD-ROM Library must be selected according to the countries of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original power cord.

For the United States and Canada

- The voltage rating and the current rating of the power cord should be higher than the rated voltage and current of the PD/CD-ROM Library.
- The voltage rating of the power cord should be higher than the voltage of the power source.
- Requirements according to the voltage of the power source:

For installations where the input voltage is less than 125 V :

The male plug should be NEMA 5-15P style (Fig. 1) and be UL Listed and CSA Certified. The female receptacle of the cord must meet IEC 320 Requirements and resemble Fig. 2. The SJT type cord should be used. The SJT type cord should be the 3-wire grounding (earthing) type.

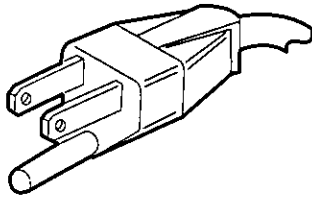


Fig. 1.

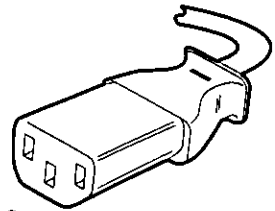


Fig. 2.

For installations where the input voltage is greater than 125 V :

The power cord (Fig. 3) should meet the requirements of U.S.A. and CANADA and be UL Listed and CSA Certified.

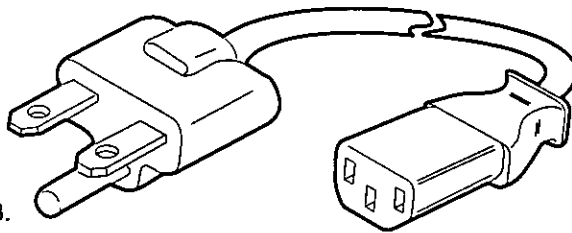


Fig. 3.

The female receptacle of the cord must meet IEC 320 Requirements, be rated for 250 V, 10 A and resemble Fig. 3. The male plug should be NEMA 6-15P style (Fig. 3), be rated for 250 V, 15 A and be UL Listed and CSA Certified. The SJT type cord should be used. The SJT type cord should be the 3-wire grounding (earthing) type and have the rating of No.16 AWG, 300 V.

REMARQUE IMPORTANTE A PROPOS DU CHOIX DU CORDON D'ALIMENTATION

Le cordon d'alimentation de cette Bibliothèque PD/CD-ROM devra être sélectionné en fonction du pays de destination et utilisé de façon à prévenir toute décharge électrique. Observer les directives ci-dessous si le cordon d'origine doit être remplacé.

Pour les Etats-Unis et le Canada

- La tension nominale et le courant nominal du cordon d'alimentation seront supérieurs à la tension et au courant nominaux de la Bibliothèque PD/CD-ROM.
- La tension nominale du cordon d'alimentation sera supérieure à la tension de la source d'alimentation.
- Prescriptions en fonction de la tension de la source d'alimentation:

Si la tension d'entrée est inférieure à 125 V:

La fiche mâle sera de type NEMA 5-15P (Fig. 1), figurer sur la liste UL et être certifiée ACNOR.

La prise femelle du cordon doit respecter les Prescriptions CEI 320 et elle aura la forme représentée à la Fig. 2.

Utiliser le cordon de type SJT.

Ce cordon de type SJT devra avoir une fiche avec mise à la terre (masse) trifilaire.

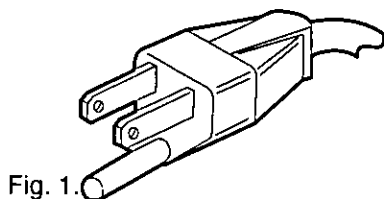


Fig. 1.

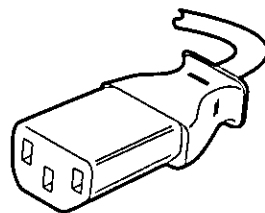


Fig. 2.

Si la tension d'entrée est supérieure à 125 V:

Le cordon d'alimentation (Fig. 3) devra respecter les exigences des Etats-Unis et du Canada, figurer sur la liste UL et être certifiée ACNOR.

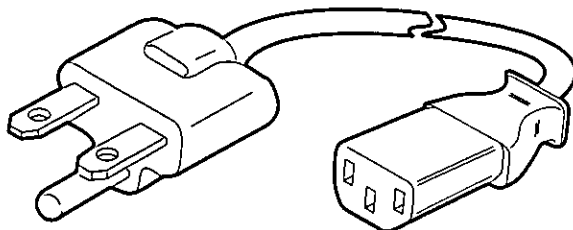


Fig. 3.

La prise femelle du cordon devra respecter les exigences CEI 320, avoir une capacité nominale de 250 V, 10 A et la forme représentée à la Fig. 3.

La fiche mâle devra être de type NEMA à 6-15 broches (Fig. 3.), avoir une capacité nominale de 250 V, 15 A, figurer sur la liste UL et être certifiée ACNOR.

Utiliser le cordon de type SJT.

Le cordon de type SJT devra avoir une fiche avec mise à la terre (masse) trifilaire et une capacité nominale de No. 16 AWG, 300 V.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all of these instructions.
2. Save these instructions for later use.
3. Follow all warnings and instructions marked on the product.
4. Unplug this product from the wall outlet before cleaning.
Do not use liquid cleaners or aerosol cleaners.
Use a damp cloth for cleaning.
5. Do not use this product near water.
6. Do not place this product on an unstable cart, stand, or table.
The product may fall, causing serious damage to the product.
7. This product should never be placed near or over a radiator or heat register.
This product should not be placed unless proper ventilation is provided.
8. This product should be operated from the type of power source indicated on the marking label.
If you are not sure of the type of power available, consult your dealer or local power company.
9. This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
10. Do not allow anything to rest on the power cord.
Do not locate this product where persons will walk on the cord.
11. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating.
Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
12. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock.
Never spill liquid of any kind on the product.
13. Except as explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing those covers that are marked "Do Not Remove" or "Do Not Disassemble" may expose you to dangerous voltage points or other risks. Refer all servicing in those compartments to service personnel.
14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally when the operating instructions are followed.
Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance, indicating a need for service.

Caution :

Never place your hands, fingers or force anything into the magazine slot area of the PD/CD-ROM Library.

NOTE:

When drives 3 and 4 are to be added, consult the dealer from whom you purchased the unit.

CONSIGNES DE SÉCURITÉ IMPORTANTES

1. Lire ce mode d'emploi jusqu'au bout.
2. Conserver ce mode d'emploi pour pouvoir s'y reporter ultérieurement.
3. Respecter tous les avertissements et instructions inscrits sur l'appareil.
4. Avant de nettoyer l'appareil, le débrancher de la prise secteur.
Ne pas utiliser de produits de nettoyage liquides ni en aérosol.
Nettoyer l'appareil à l'aide d'un chiffon humide.
5. Ne pas utiliser l'appareil au voisinage de l'eau.
6. Ne pas placer l'appareil sur une table roulante, un support ou une table instables.
L'appareil risquerait de tomber, ce qui l'endommagerait gravement.
7. Ne jamais placer l'appareil près de ou sur un radiateur ou un compteur thermique.
Ne pas l'installer d'une façon qui empêche une bonne ventilation.
8. L'appareil devra être alimenté sur la source indiquée sur la plaque signalétique.
En cas de doutes au sujet de l'alimentation à utiliser, consulter son magasin ou la compagnie d'électricité locale.
9. L'appareil est doté d'une fiche de mise à la masse à trois lames, c'est-à-dire une fiche ayant une troisième lame (la lame de mise à la masse). Cette fiche ne rentrera que dans une prise de courant de type "mise à la masse". Ceci est une mesure de sécurité. Si l'on ne parvient pas à insérer la fiche à fond dans la prise secteur, faire remplacer la prise déshabillée par son électricien. Ne pas rendre inutile la mesure de sécurité assurée par cette fiche de mise à la masse.
10. Veiller à ce qu'il n'y ait rien de posé sur le cordon d'alimentation.
Ne pas installer l'appareil de façon que l'on puisse marcher sur son cordon.
11. Si l'on utilise un cordon de rallonge, bien veiller à ce que l'intensité nominale totale des appareils branchés sur le cordon de rallonge ne dépasse pas l'intensité nominale du cordon de rallonge.
Par ailleurs, bien veiller à ce que la somme des appareils branchés dans la prise secteur ne dépasse pas 15 ampères.
12. Ne jamais rien enfoncer dans les fentes du coffret de l'appareil car ces objets, quel qu'ils soient, pourraient toucher des points soumis à des tensions dangereuses ou court-circuiter des pièces, provoquant un risque de feu ou de choc électrique. Ne jamais renverser aucun liquide d'aucune sorte sur l'appareil.
13. Sauf spécification contraire dans le mode d'emploi, ne pas tenter de réparer l'appareil soi-même. En ouvrant ou en retirant certains couvercles qui sont marqués "Ne pas retirer", ou "Ne pas démonter", l'on risque notamment de s'exposer à des tensions dangereuses. Confier toutes les réparations à un personnel qualifié.
14. Débrancher l'appareil de la prise secteur et s'adresser à un personnel de réparation qualifié dans les cas suivants :
 - A. Si le cordon ou la fiche d'alimentation sont endommagés ou effilochés.
 - B. Si du liquide a été renversé sur l'appareil.
 - C. Si l'appareil a été exposé à la pluie ou à l'eau.
 - D. Si l'appareil ne fonctionne pas normalement alors qu'on suit les instructions de fonctionnement.
On ne réglera que les commandes qui sont abordées dans le mode d'emploi; en effet, un mauvais réglage des autres commandes pourrait provoquer des dommages et nécessiteront souvent des réparations coûteuses par un technicien qualifié pour remettre l'appareil en ordre de marche.
 - E. Si l'appareil est tombé ou si son coffret a été abîmé.
 - F. Si l'appareil présente une altération nette de ses performances, signalant un besoin de réparation.

Attention :

Ne jamais placer les mains ni les doigts et ne rien insérer de force dans la fente du magasin de la Bibliothèque PD/CD-ROM.

REMARQUE:

Si l'on veut ajouter les lecteurs 3 et 4, consulter le magasin où l'on a acheté l'appareil.

IMPORTANT PRECAUTIONS

This PD/CD-ROM Library incorporates many sensitive optical components. To ensure optimum performance at all times, avoid using this PD/CD-ROM Library under the following conditions:

- In a location where cigarette smoke, humidity and air pollution are prevalent.
- While transporting in a closed vehicle or other location where ventilation is insufficient and the temperature could exceed 35 °C (95 °F).
- Where there are significant temperature or humidity changes.
- For long periods of time in direct sunlight.
- Near a heat outlet or heating appliance.
- When placed on an uneven, unstable or soft surface.
- Locations prone to vibration or shock.
- Near appliances generating strong magnetic fields.

Do not plug this PD/CD-ROM Library into an AC wall outlet where other appliances are consuming large amounts of power.

Do not ship/move PD/CD-ROM Library unit with PD/CD magazine inserted.

Never attempt to remove the cabinet screws or make any adjustments. Serious harm to both the user and equipment may result.

IMPORTANT NOTICE CONCERNING INSTALLATION

Warning :

For SETTING of PLUGGABLE EQUIPMENT — The socket-outlet must be near this equipment and must be easily accessible.

PD DISK DISPOSAL

Caution :

PD Disks contain tellurium which may be considered hazardous. Check and follow your local regulations before Disposal.

IMPORTANT NOTICE

FOR USER IN U.S.A.

Included with this booklet is a questionnaire which requests important information required by the U.S. Center for Devices and Radiological Health.

It should be filled out by the end-user/purchaser of this equipment — not the reseller.

If you are the end-user and this questionnaire card is missing, please call Panasonic at 1-800-PANA SYS and another will be promptly mailed to you.

Please also call 1-800-PANA SYS, if you require technical support.

This technical support hotline is available 7 days a week, 24 hours a day.

PRECAUTIONS DE SECURITE

La Bibliothèque PD/CD-ROM renferme un grand nombre de composants optiques sensibles. Pour garantir des performances optimales en tout temps, éviter d'utiliser la Bibliothèque PD/CD-ROM dans les conditions suivantes:

- Dans des endroits habituellement chargés de fumée de cigarette, humidité et pollution atmosphérique.
- En transport dans un véhicule fermé ou tout autre endroit où la ventilation est insuffisante et où la température peut dépasser 35 °C (95 °F).
- Dans des endroits soumis à des variations importantes de température ou d'humidité.
- Exposé en plein soleil pendant longtemps.
- Près d'une bouche de chaleur ou d'un appareil de chauffage.
- Sur une surface irrégulière, instable ou molle.
- Endroits sujets aux vibrations ou aux chocs.
- A proximité d'appareils engendrant des champs magnétiques puissants.

Ne pas brancher la Bibliothèque PD/CD-ROM dans une prise secteur qui alimente d'autres appareils consommant une grande quantité de courant.

Ne pas transporter/déplacer la Bibliothèque PD/CD-ROM avec le magasin PD/CD inséré.

Ne jamais tenter de retirer les vis du coffret ni d'effectuer des réglages.

Cela pourrait avoir de graves conséquences, tant pour l'utilisateur que pour le matériel.

REMARQUE IMPORTANTE CONCERNANT L'INSTALLATION

Avertissement :

Pour l'INSTALLATION d'un APPAREIL ENFICHABLE — La prise secteur devra se trouver près de l'appareil et être facilement accessible.

MISE AU REBUT DES DISQUES PD

Attention :

Les disques PD renferment du tellurium qui peut être considéré comme dangereux. Avant de mettre les disques au rebut, vérifier la réglementation locale et l'observer.

Introduction

Congratulations on your purchase of Panasonic's PD/CD-ROM Library!

Before using the unit, please be sure to read through these instructions in order to acquaint yourself with the proper procedures for its operation.

Keep the instructions in a safe place for future reference.

Features

Some features of this dual-purpose unit are listed below:

- Up to 10 magazines can be installed (with each magazine housing 10 disks).
- Both PD disks and CDs/CD-ROMs can be used
(although they cannot be housed in the same magazine).
- High-speed processing is enabled by dual-pickers mechanism.
(Disks can be exchanged at an average high speed of 6 seconds.)
- The compact design makes for space-saving installation.
- The unit's design which does away with a fan makes the product less vulnerable to dust.

PD

- 66GB of data recorded (with 10 PD magazines installed)
- Data can be written at high speeds by direct overwrite.
- Large amounts of data can be controlled in a limited space.

CD-ROM

- 4X Speed

Supported Formats:

- Kodak Photo CD
- Video CD
- CD-DA
- CD-I FMV

Use CD-ROM discs bearing this logo only:

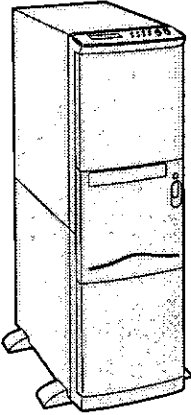


Use compact discs bearing this logo only:

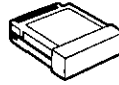


Kit Contents

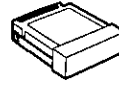
Before using your PD/CD-ROM Library, check that the items shown below were packed with the unit. If any of these items are missing or defective, please contact the dealer from whom you purchased the unit.



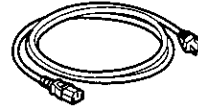
PD/CD-ROM Library (main unit)



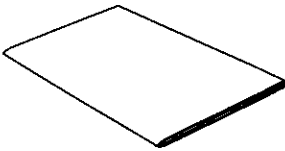
PD Magazine (1)



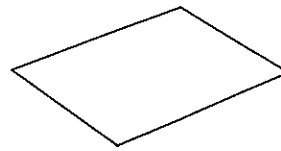
CD Magazine (1)



Power cord



Operating Instructions

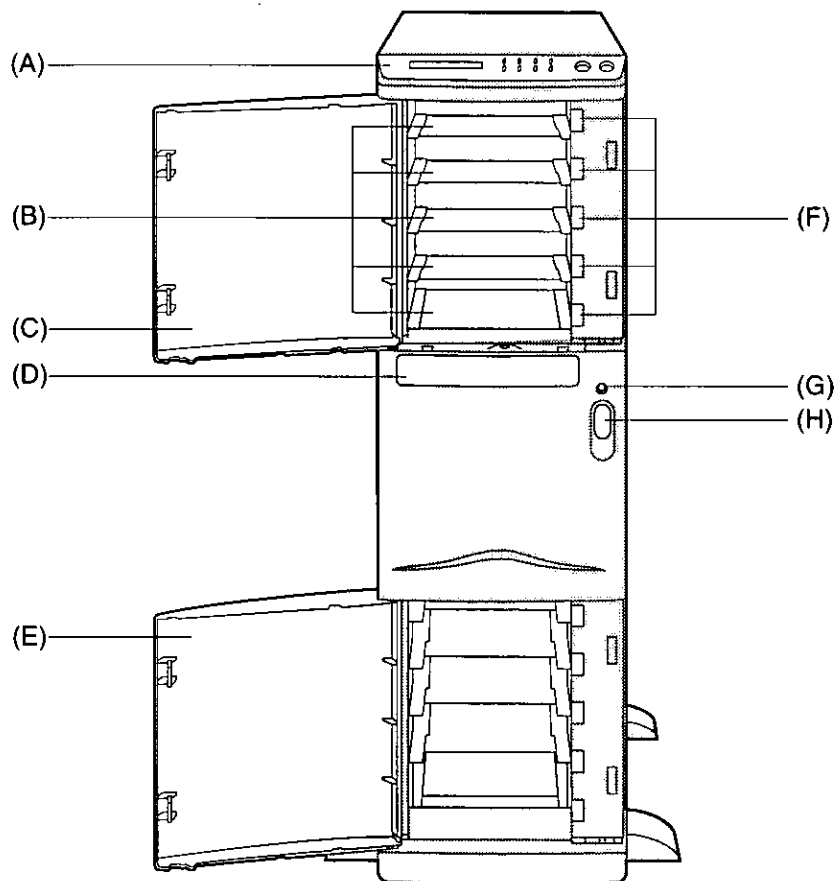


Warranty card

PLEASE read this instruction manual through to the end so that you can obtain in advance any information necessary for your intended applications.

Parts and Functions

Front Panel



(A) CONTROL PANEL

(B) MAGAZINE SLOT — A magazine is installed in this slot.

(C) TOP MAGAZINE BAY DOOR

(D) MAIL SLOT — This is used to insert and remove CD/CD-ROM.

(This is operated from the host computer.)

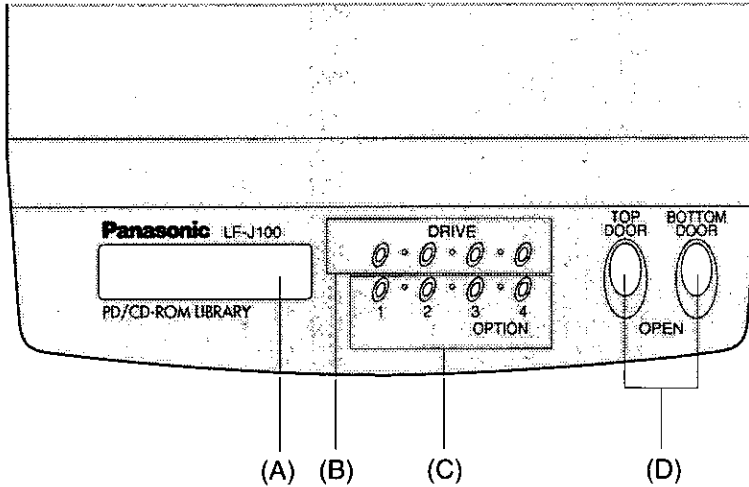
(E) BOTTOM MAGAZINE BAY DOOR

(F) MAGAZINE EJECT BUTTON — Press this to eject the magazine which has been installed on the left side.

(G) POWER LAMP — This lights up green when the power is turned on.

(H) POWER SWITCH — This turns the unit's power ON or OFF.

Control Panel

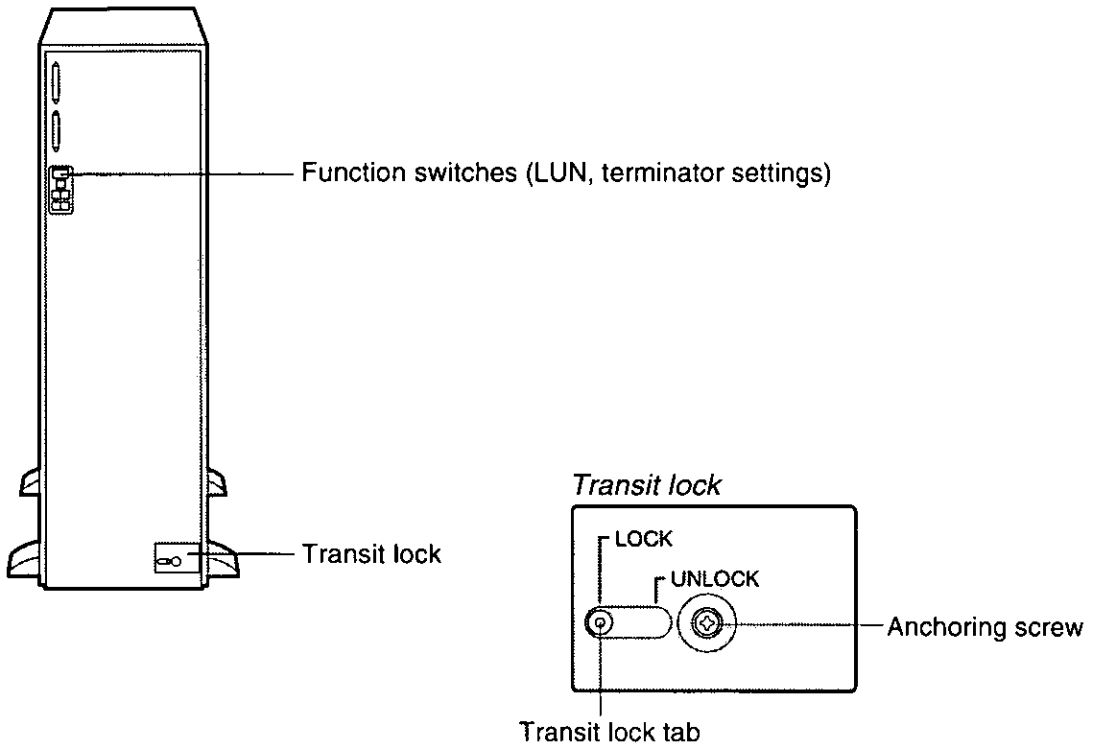


- (A) LIQUID CRYSTAL PANEL — This displays the unit's operating statuses and error codes.
- (B) PD/CD IDENTIFYING LAMP — This identifies the type of disk which has been installed in the internal drive.
- When it lights up orange: PD disk
When it lights up green: CD/CD-ROM disc
- (C) OPERATING LAMP — This lights up green while data being accessed.
- Green: CD or CD-ROM disc play
PD disk read/write when write cache is OFF
PD disk read when write cache is ON
Orange: PD disk write when write cache is ON
- (D) DOOR SWITCH — This releases the door lock.
(Release can be prohibited from the host computer.)

The PD/CD identifying lamps and operating lamps are for drives 1, 2, 3 and 4 from the left. (The lamps for drives 3 and 4 become effective when the drives have been added, and they do not normally light up.)

There are two door switches, for opening the MAGAZINE BAY DOORS. The left button, labeled "TOP DOOR", operates the door lock for the TOP MAGAZINE BAY DOOR. The right button, labeled "BOTTOM DOOR", operates the door lock for the BOTTOM MAGAZINE BAY DOOR.

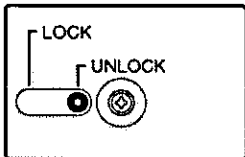
Before Operation



Releasing the transit lock

When installing the unit, turn the power off and set the transit lock tab to the UNLOCK position status by following the steps described below.

1. Loosen the anchoring screw.
2. Move the transit lock tab to the right until it clicks in the UNLOCK position.



3. Tighten the anchoring screw.
(A failure or malfunction will occur if the screw is not tightened.)

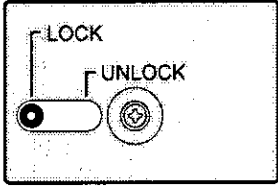
Setting the transit lock

When the unit is to be moved or transported, set the transit lock tab to the LOCK position by following the steps described below.

1. Eject all the magazines housed inside the unit.
2. Turn off the power and set function switch 2 to ON.
3. Turn on the power. (The following details are displayed on the liquid crystal panel about 140 seconds later.)

SHIP LOCK
OPERATOR REQUEST

4. Loosen the anchoring screw.
5. Move the transit lock tab to the left until it clicks in the LOCK position.



6. Tighten the anchoring screw. (A failure or malfunction will occur if the screw is not tightened.)
7. Set function switch 2 to OFF.
8. Turn off the power.

NOTE :

When drives 3 and 4 are to be added, consult the dealer from whom you purchased the unit.

NOTE :

Function switches 1, 3 and 4 are not used.

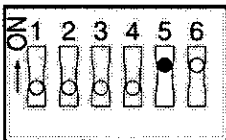
LUN Setting

Up to 8 logical units are supported by a single SCSI device (SCSI ID), and a logical unit number (LUN) is allocated to each of these logical units.

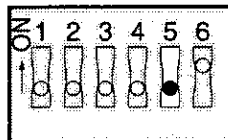
- When set to the 1LUN mode, PD disks and CDs/CD-ROMs are used with LUN0.
- When set to the 2LUN mode, PD disks are used with LUN0 and CDs/CD-ROMs with LUN1.

The LUN mode should be set to match the specifications of the software device driver to be used.

- ON (1LUN mode)



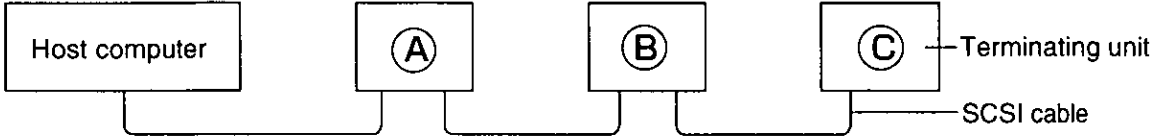
- OFF (2LUN mode)



The factory default setting is OFF.

Terminator Setting

Example of SCSI daisychain connections

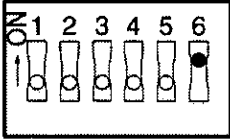


The total length of the SCSI cable from the host computer to the terminating unit must be less than 6 meters.

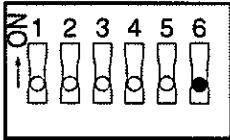
“Terminator” refers to the terminating resistance.

The proper settings must be made for a SCSI daisychain connection.

- When a unit is the terminating unit (as with **C** in the figure above); set switch 6 to the ON position(up) thus enabling termination



- When a unit is not the terminating unit (as with **A** and **B** in the figure above); set switch 6 to the OFF position(down) thus disabling termination

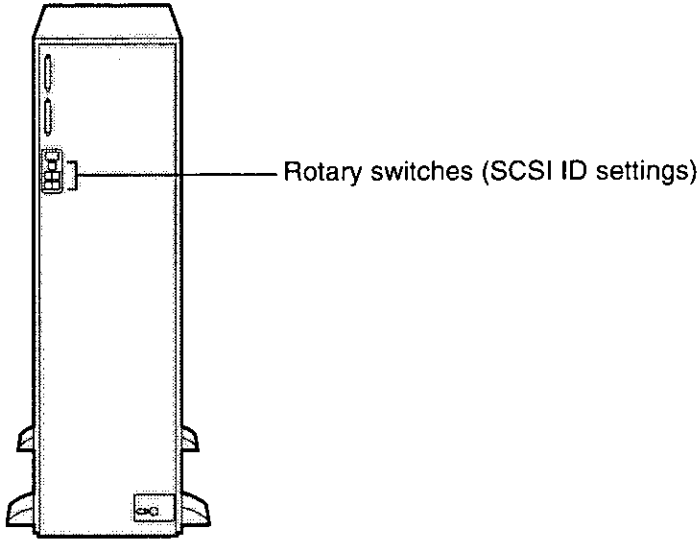


The factory default setting is ON.

NOTE :

Do not connect an external terminator when the terminator is set to ON.

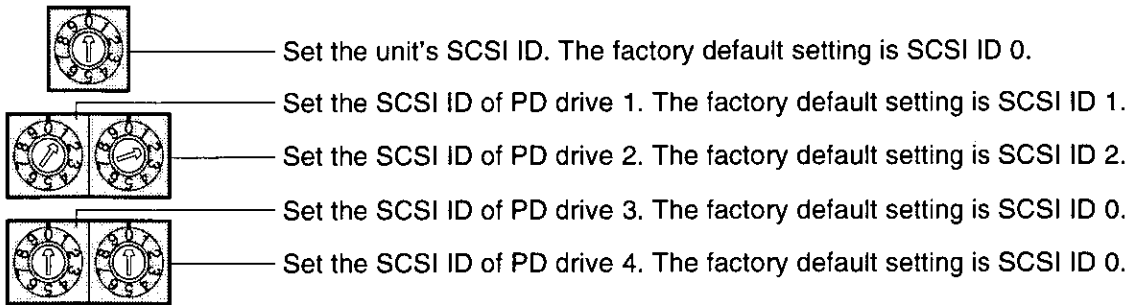
This will result in a double termination so that normal operation is disabled.



SCSI ID Setting

The SCSI IDs are the identifying numbers which enable the host computer to identify each SCSI device.

These IDs must be set in such a way they do not duplicate the IDs of the other SCSI devices connected on the same SCSI bus.



NOTE :

Generally, the SCSI IDs are set as follows:

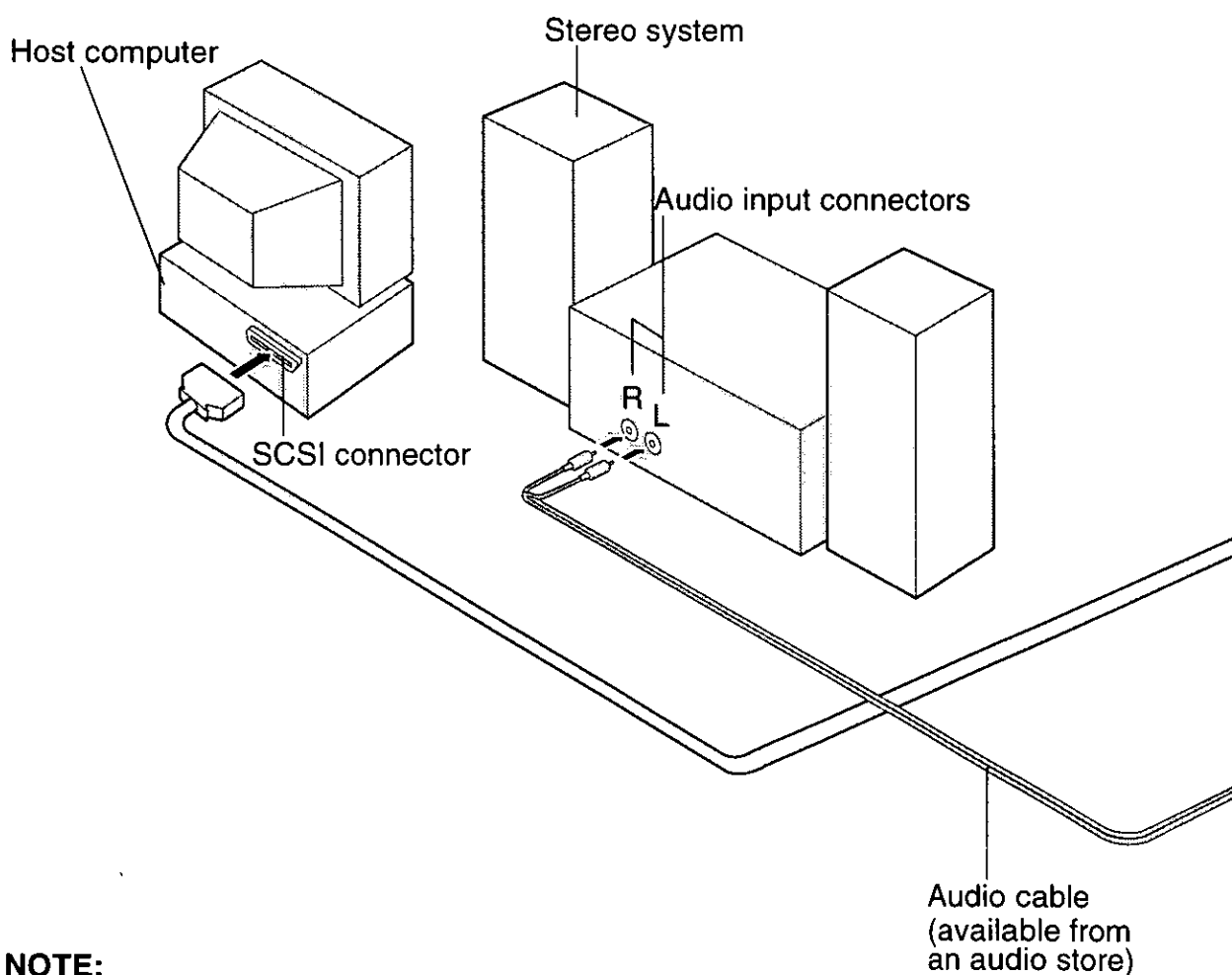
- Hard Disk Drive=0
- CD-ROM Drive=3
- SCSI Host Adapter=7

Check the IDs of other SCSI devices (refer to the devices documentations), and take care not to use the same setting.

Connections

Before connecting the units

- Check that the power to all the units is off.
(Connecting the units with the power on must be avoided.)
- Install the units on a flat and stable surface.
- Connect the appropriate cables securely.

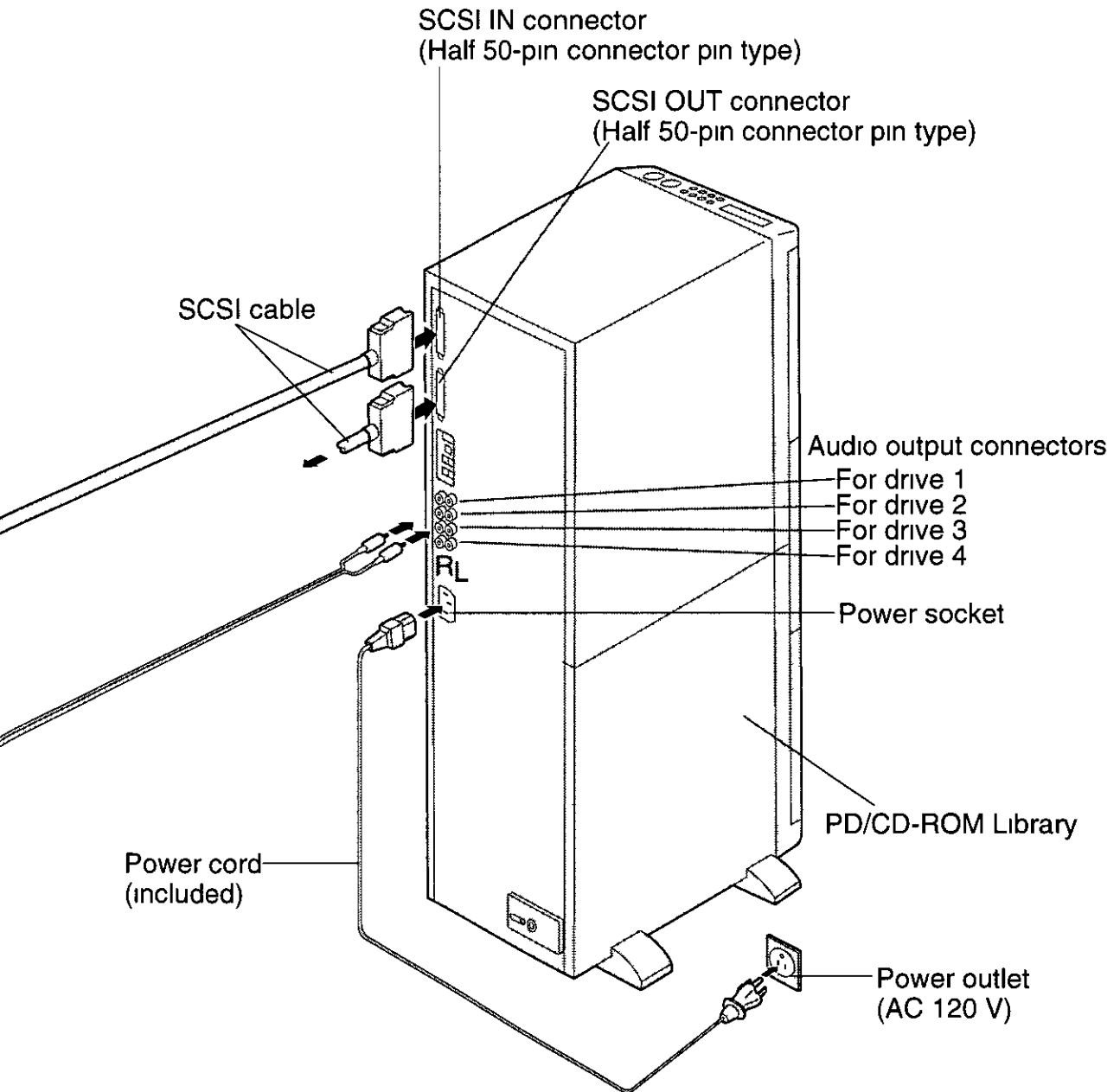


NOTE:

- Up to 7 SCSI units can be connected to the SCSI interface board.
This unit uses up to 5 logical SCSI units, depending on the number of drives installed.
Each drive installed takes up 1 logical SCSI unit.
The units changer also takes up 1 logical SCSI unit.
- The total length of all SCSI cables in a SCSI chain must not be more than 6 meters long.
The SCSI cable inside PD/CD-ROM Library is about 2.6 meters long.

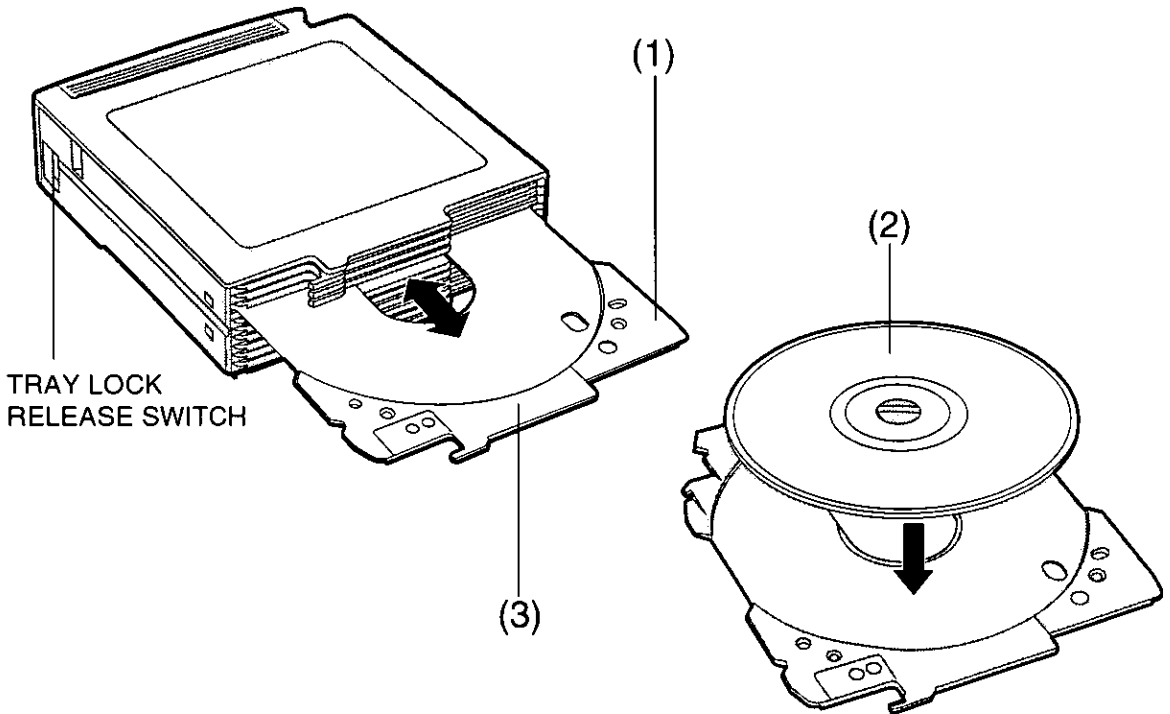
Installing the device driver

The device driver (optional accessory) is a software program enabling data to be transferred between the PD/CD-ROM Library and host computer. The device driver (which differs according to the operating system used) must be installed in the host computer.



Operation

Loading a CD/CD-ROM into the CD magazine



(1) Eject the tray horizontally while keeping the TRAY LOCK RELEASE SWITCH depressed.

(2) Load the CD/CD-ROM with its label surface facing up.

(3) Insert the tray horizontally. (It clicks into position.)

NOTE:

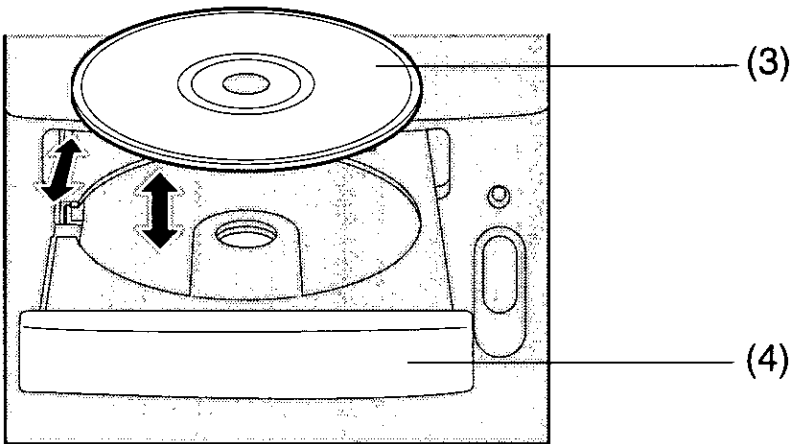
- Do not eject more than one tray at a time.
- When removing the discs, take care not to drop them.
- Do not place two or more CDs/CD-ROMs on one tray.
- Insert the tray properly into the magazine. Insert it horizontally making sure it is not tilted.

Removing the CD/CD-ROM from the CD magazine

- (1) Eject the tray from the magazine horizontally while keeping the magazine's TRAY LOCK RELEASE SWITCH depressed.
- (2) Remove the CD/CD-ROM.

Exchanging a CD/CD-ROM via the mail slot

- (1) Press the power switch to turn on the unit's power. (The power lamp now lights up green.)
- (2) Execute the exchange command from the host computer. (The mail slot now opens.)



- (3) Exchange the CD/CD-ROM. (Place the CD/CD-ROM with its label surface facing up.)
- (4) Press the mail slot gently.

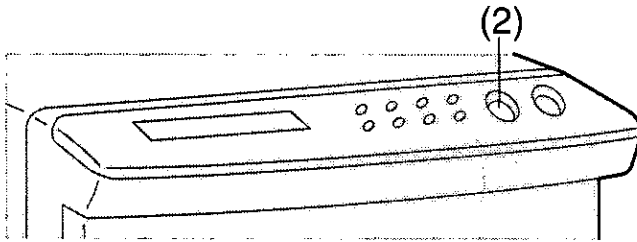
NOTE:

- Under no circumstances must the PD disk be ejected from the PD magazine. If it has been ejected in error, take extra care in handling it, and return it to the PD magazine immediately. Similarly, if the PD disk has appeared from the mail slot in error, return it immediately. Marks, scratches and dirt on the PD disk may destroy the data and make it impossible for data to be saved on it properly.
- An 80 mm CD adapter cannot be used.

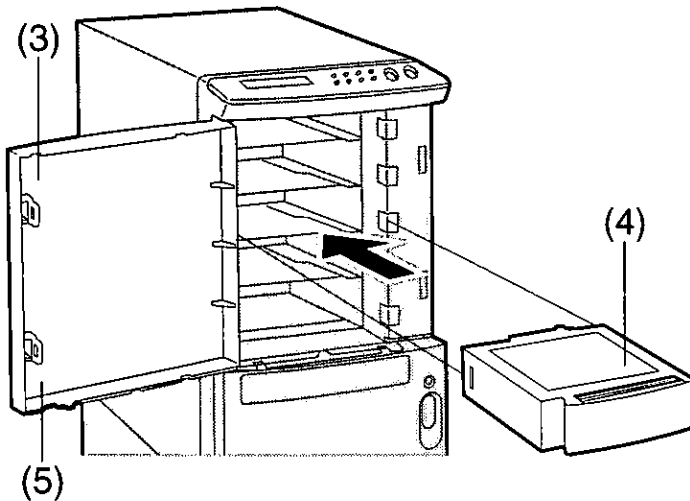
Loading the magazine into the unit

(at, for example, the third slot from the top of the top magazine bay)

(1) Press the power switch to turn on the unit's power. (The power lamp now lights up green.)



(2) Press the TOP DOOR Switch. (TOP DOOR opens slightly.)



(3) Open TOP DOOR.

(4) Load the magazine into the third slot from the top.

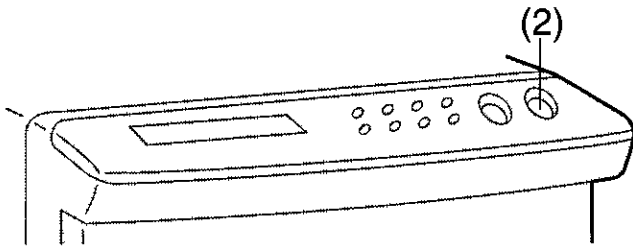
(5) Close TOP DOOR.

(6) The unit automatically operates to identify the magazine (this operation is known as initialization).
(When 10 magazines have been inserted, this step takes about 5 minutes to complete.)

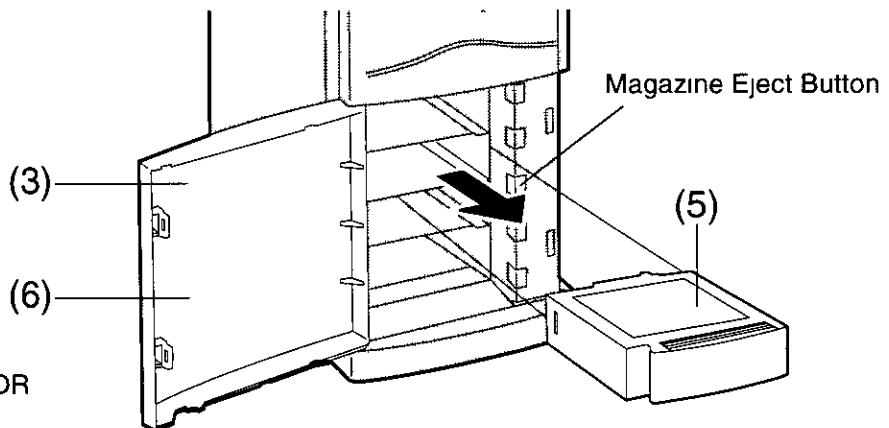
Removing the magazine from the unit

(from, for example, the third slot from the top of the bottom magazine bay)

- (1) Press the power switch to turn on the unit's power (The power lamp now lights up green)



- (2) Press the BOTTOM DOOR SWITCH (BOTTOM DOOR opens slightly)



- (3) Open BOTTOM DOOR
- (4) Push the Magazine Eject Button for the third slot from the top
The magazine will pop out slightly
- (5) Remove the magazine into the third slot from the top
- (6) Close BOTTOM DOOR

NOTE:

- To open one of the MAGAZINE BAY DOORS, press the corresponding DOOR SWITCH
Do not force the door open without pressing the DOOR SWITCH
This will result in a failure
- Do not insert the magazines with undue force
- Do not open the doors while the unit is operating
- Exchange the magazines while the power is on
Remember that if the doors are opened and the unit's power is turned off and then turned back on again, all the inserted magazines will be initialized

Liquid crystal panel displays

The operating messages which are displayed on the liquid crystal panel are as follows.

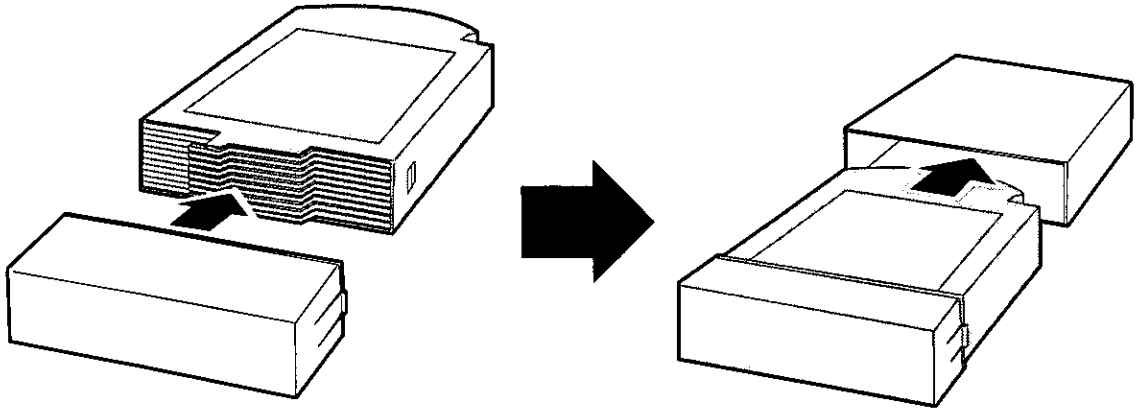
<u>Operating message display</u>	<u>Description</u>
MAIL SLOT CD_REQUEST	The CDs/CD-ROMs are loaded and ejected from the mail CD slot.
NORMAL INITIALIZE	The magazines are being initialized. (This is done automatically when the power is turned on and when a MAGAZINE BAY DOOR has been closed.)
NORMAL DOOR PREVENT	The door is now locked. (This display remains for 5 seconds.)
NORMAL DOOR INHIBIT	With a disk loaded in the internal drive: The function which automatically returns the disk to the magazine is prohibited.
CAN'T OPEN DOOR PUSH BUTTON	Has any object been placed in front of the door?
CHECK MAGAZINE PUSH BUTTON	After the magazine has been inserted, the tray juts out of the magazine. (Has the tray been inserted correctly in the magazine?)
NORMAL DOOR OPEN	The door is open.
NORMAL READY	Now standing by for a command from the host computer.
NORMAL MOVE	An operating command has been received from the host computer.
SHIP LOCK OPERATOR REQUEST	The transit lock can now be set.
BOOT-NORMAL	Now saving control software data. If any of these conditions have occurred during normal use, consult the dealer from whom you purchased the unit.
* ----- -----	Asterisk in upper left corner of display indicates that the PD/CD-ROM Library is receiving command from the host computer.

The error messages which are displayed on the liquid crystal panel are as follows.
 When an error has appeared, check the "remedial action."

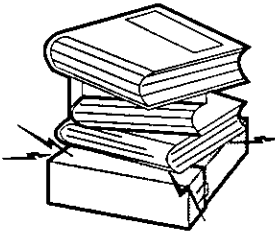
<u>Error message display</u>	<u>Description</u>	<u>Remedial action</u>
CODE U10 OPERATOR REQUEST	The transit lock is in the lock status.	Refer to page 16 of the manual and release the transit lock.
CODE U13 OPERATOR REQUEST	The SCSI ID setting is incorrect.	Refer to page 19 of the manual and set the SCSI ID properly.
CODE U14 OPERATOR REQUEST	The transit lock fails to lock.	Remove all the magazines from the unit and set the transit lock to the lock status.
CODE F□□ LIBRARY ERROR CODE F□□ DRIVE ERROR (□ denotes a number.)	When CODE F□□ has appeared, consult the dealer from whom you purchased the unit.	

Magazine Handling

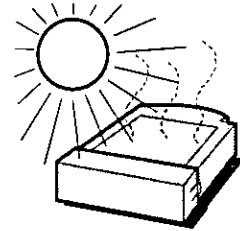
Cap the magazine and insert it in its case for storage.



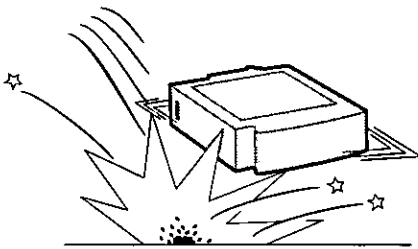
DO NOT place objects on top of a magazine.



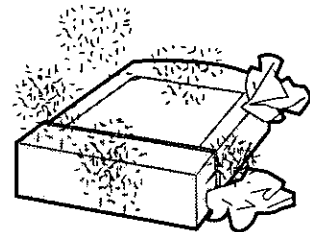
DO NOT leave in direct sunlight.



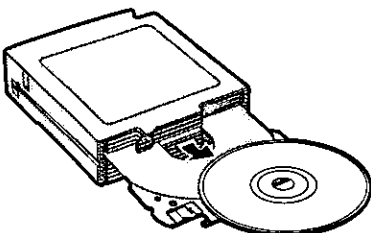
DO NOT drop or bend.



DO NOT store magazine in areas with large amounts of dust and other contaminants.

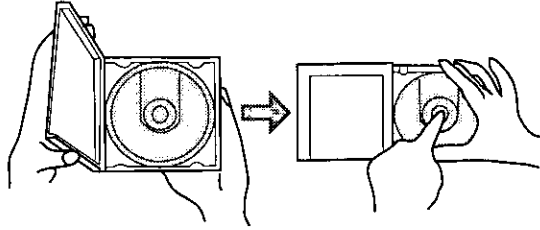


DO NOT remove PD disk from PD magazine.

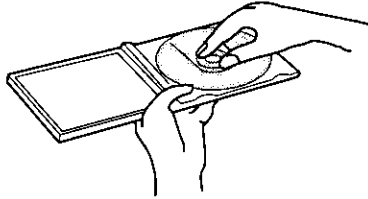


CD and CD-ROM Disc Handling

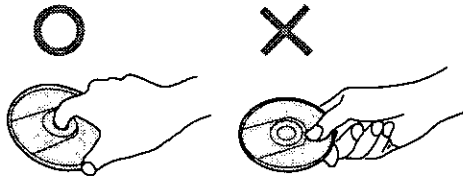
To remove a disc from its case, press down on the center holder and lift the disc out.



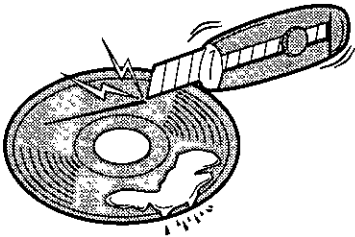
To put the disc back in its case, press down on the label side so that the disc will go over the center holder.



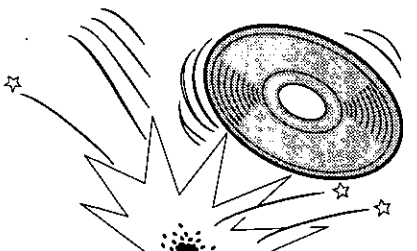
When holding a disc, DO NOT touch the disc surface.



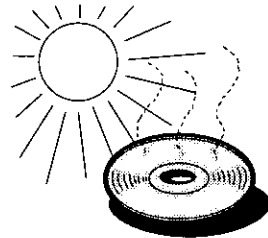
DO NOT scratch or mark the disc.



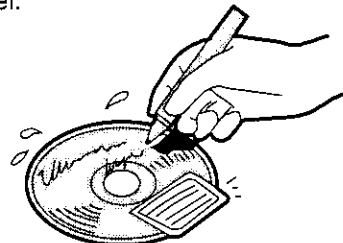
DO NOT drop or bend.



DO NOT leave in direct sunlight.



DO NOT write or stick paper on the front panel.



Troubleshooting

<u>When this occurs</u>	<u>Possible cause</u>	<u>Refer to Page</u>
No power	● Has the power cord been connected correctly?	21
The mail slot fails to open	● Is the power on?	23
The mail slot fails to close	● Is the power on?	23
The host computer fails to start	● Has the SCSI ID been set correctly?	19
The unit will not operate when an attempt is made to operate it from the host computer	<ul style="list-style-type: none"> ● Is the power on? ● Has the terminator been set correctly? ● Are the unit and host computer connected correctly? ● Is the total length of the SCSI cable(s) less than 6 meters? ● Has the device driver been installed correctly? 	23 18 20, 21 20 21
PD disk cannot be read or written to	<ul style="list-style-type: none"> ● Has condensation formed in the unit? ● PD magazines not supported by the unit cannot be used. ● Has the LUN function been set correctly? 	— 32 17
CD or CD-ROM cannot be read	<ul style="list-style-type: none"> ● Has condensation formed in the unit? ● CD/CD-ROM not supported by the unit cannot be used. ● Is the CD dirty? (Wipe clean with a soft cloth.) ● Is the CD scratched, cracked or warped? (Do not use.) ● Has the LUN function been set correctly? ● Are you using the correct software program for playing CDs and CD-ROMs? ● Verify that the CD disc is inserted in the CD magazine so that label side is up. ● Has the CD been placed correctly on the tray? 	— 12 35 29 17 — 22 22
No sound from the stereo system	● Have the unit and stereo system been connected correctly?	20, 21

If, after following these procedures, your PD/CD-ROM Library still does not operate, please call the Panasonic Technical Support Hotline at 1-800-PANASYS (1-800-726-2797) for assistance.

Specifications

PD/CD-ROM Library

Power requirements	AC100 — 240 V	50/60 Hz
Current consumption	1.2 — 0.6 A	

Characteristics (main unit)

Memory size	Max. 66 GB
No. of magazines installed	Max. 10
No. of disks accommodated	Max. 100
Disk exchange time	Average 6 s
Pickers	2 units
Interface	SCSI-2
Internal SCSI cable length	2.6 m
SCSI connector	Half 50-pin connector pin type
No. of internal drives	2 (max. 4)

Characteristics (drive unit)

Seek time	PD	165 ms
	CD-ROM	195 ms
Sustained data transfer rate	PD	518 — 1,141 KB/s
	Audio mode	150 KB/s
	CD-ROM 4X speed mode	600 KB/s
Data transfer rate (SCSI)	Synchronous	Max. 5.0 MB/s
	Asynchronous	Max. 3.3 MB/s
Disk speed	PD	2,026 min ⁻¹ (rpm)
	Audio mode	200 — 530 min ⁻¹ (rpm)
	CD-ROM 4X speed mode	800 — 2,120 min ⁻¹ (rpm)
Error rate (after correction)	Less than 1.0×10^{-12}	
Output level (impedance)	1.0 Vr.m.s (47 k Ω)	
Applicable CDs and CD-ROMs	CD-ROM Mode-1 CD-DA, Video CD, CD-I CD-ROM XA Mode-2, Form-1, Form-2, PhotoCD	

Environment

Ambient temperature	During operation	5 °C — 35 °C (41 °F — 95 °F)
	During storage	-20 °C — 50 °C (-4 °F — 122 °F)
Humidity (no condensation)	During operation	10 %RH — 80 %RH
	During storage	8 %RH — 90 %RH

Construction

Dimension (W × H × D)	210 × 700 × 416 mm (8 ⁵ / ₁₆ " × 27 ⁹ / ₁₆ " × 16 ⁷ / ₁₆ ")
Weight (Excluding magazines)	18 kg (39.6 lbs.)

Specifications and external design are subject to change without notice because of product improvements.

Magazine

		PD Magazine	CD Magazine
Model number		LM-RP6500A	LM-CD10A
Disks installed		PD Disk	Limited to CDs supported
Disk installation method		Tray	Tray
Max. number of disks installed		10	Max. 10
Ambient temperature	During operation	5 °C — 60 °C (41 °F — 140 °F)	5 °C — 60 °C (41 °F — 140 °F)
	During storage	-10 °C — 60 °C (14 °F — 140 °F)	-10 °C — 60 °C (14 °F — 140 °F)
Humidity (no condensation)	During operation	10 %RH — 80 %RH	10 %RH — 80 %RH
	During storage	8 %RH — 90 %RH	8 %RH — 90 %RH
Dimension (W × H × D)		129.5 × 39 × 153 mm (5 1/8 " × 1 9/16 " × 6 1/16 ")	129.5 × 39 × 153 mm (5 1/8 " × 1 9/16 " × 6 1/16 ")
Weight		0.45 kg (0.99 lbs.)	0.295 kg (0.65 lbs.)

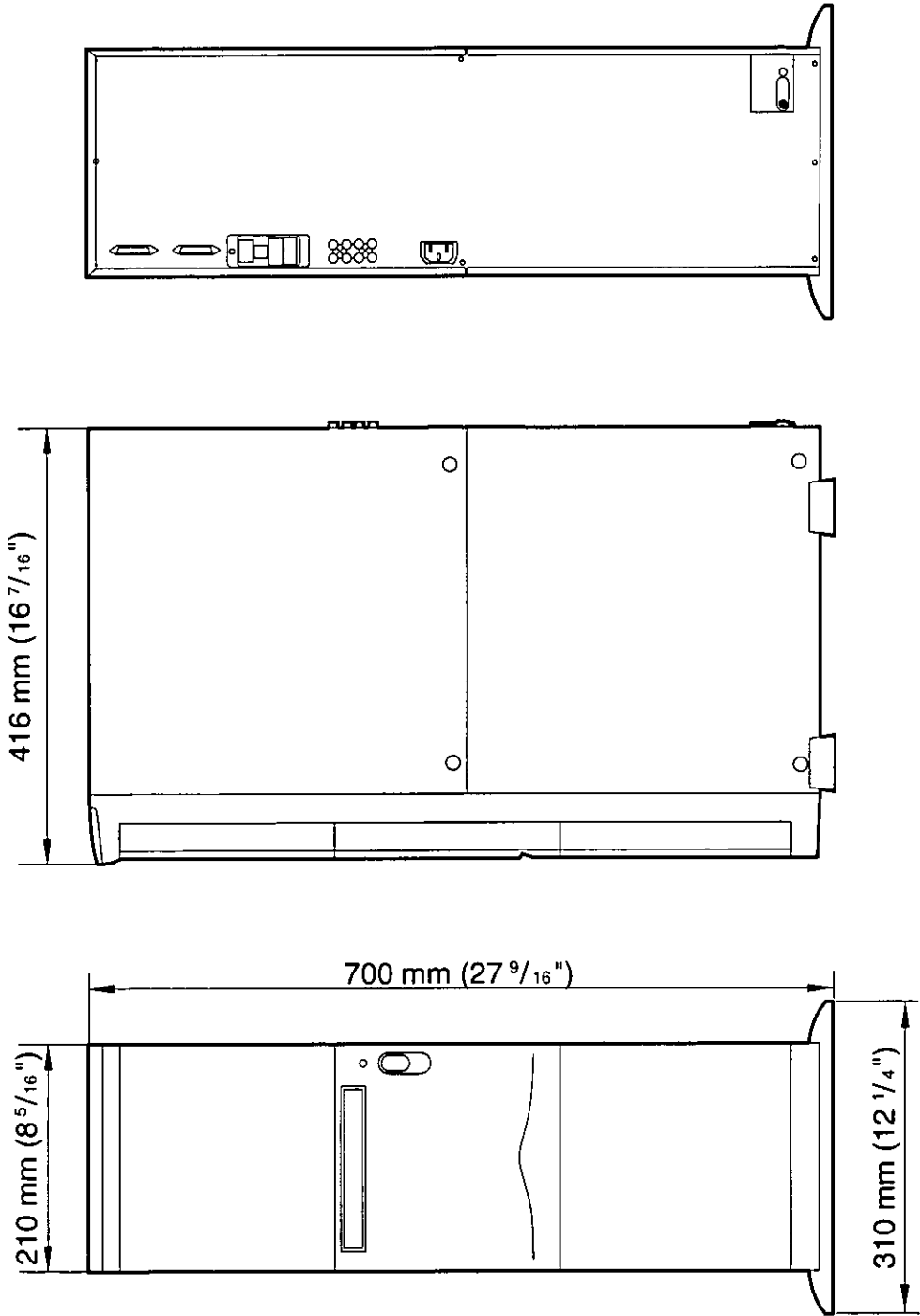
Specifications and external design are subject to change without notice because of product improvements.

PD Disk

Type	Phase-change rewritable
Disk diameter	120 mm (4 3/4 ")
Memory size disk/user	668 MB / 664 MB (single sided)
Bytes/sector	512
Sector/track (Disk format)	30 — 66 (Zone CAV)
Track pitch	1.20 μ m
Disk life (Estimated)	More than 15 years

Specifications and external design are subject to change without notice because of product improvements.

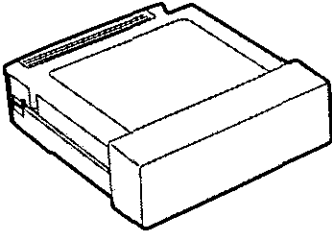
External view



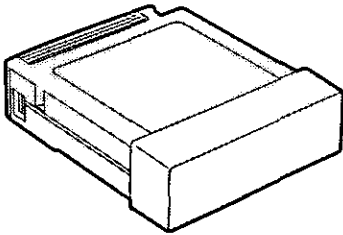
Specifications and external design are subject to change without notice because of product improvements.

Optional Accessories

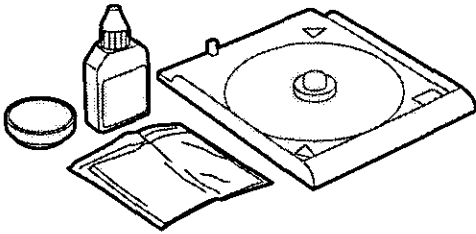
LM-RP6500A PD Magazine



LM-CD10A CD Magazine



LF-K022DC PD/CD Disk Cleaner
"Not for use with PD magazine bare disk. (LM-RP6500A)"



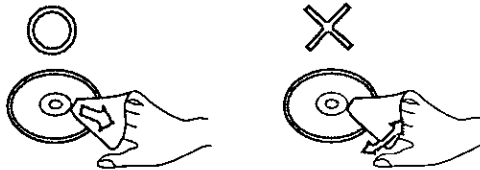
Maintenance

Maintaining the unit

- Turn off the power and disconnect the power plug from the outlet
- Do not use benzine, paint thinners or other solvents
- Remove dirt by wiping the surface lightly using a soft cloth (To remove stubborn stains, soak the cloth in a diluted solution of neutral detergent, wring it out well, and wipe away the stains)
- About once a year consult your dealer about having the unit inspected

CD/CD-ROM discs

If a disc is dirty, wipe it with a soft cloth moistened with water and remove any remaining moisture with a dry cloth. Be sure to wipe the disc from its center towards its edge.



If condensation has formed on a disc because it has suddenly been brought into a warm room, etc., wipe it off using a soft dry cloth.

Technical Support

To answer questions or requests from customers who have bought the Panasonic PD/CD-ROM Library, the following Hotline is available for Panasonic customers. Please do not hesitate to call us.

The Hotline number is 1-800-PANASYS (1-800-726-2797)

This number is available 24 hours a day, 7 days a week.

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