

Operating Instructions

VIDEO DISC PLAYER **LaserDisc™** LD-V1000



THE INTERNAL MECHANISMS OF THIS PLAYER ARE HELD IN PLACE DURING SHIPMENT AND TRANSPORTATION BY A SHIPPING SCREW. BE SURE TO REMOVE THE SHIPPING SCREW BEFORE YOU ATTEMPT TO USE THE PLAYER. (REFER TO PAGE 5.)

THE OBJECTIVE LENS IS COVERED WITH A PROTECTIVE CAP TO PREVENT A DAMAGE AND KEEP OUT DUST DURING SHIPMENT AND TRANSPORTATION. THIS LENS CAP MUST BE REMOVED BEFORE OPERATING THE PLAYER. (REFER TO PAGE 5.)

IMPORTANT NOTICE

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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

SPECIFICATIONS

1. General

System Comply with MCA, Philips specifications
Disc Standard play video disc
Spindle motor revolutions 1800 RPM
Laser 6328 angstrom, He-Ne 1mV
Power requirements 120V AC, 60Hz
Power consumptions 60 watts
Operating temperature +5°C to +35°C
Dimensions 525(W) x 395(D) x 143(H) mm.
20-21/32(W) x 15-9/16(D) x 5-5/8(H) in.
Net weight (without package) 13kg (28.7 lbs)

2. Video Characteristics

Format NTSC specification
Video output
Level . . . 1Vp-p nominal, sync. negative, terminated
Impedance 75 ohms unbalanced
Terminal BNC type jack

3. Audio Characteristics

Audio output Two channels
Level 650mV nominal (1kHz 100% mod.
50 kilohms terminated)
Terminal Stereo pinjack

4. External Control

Terminal 24 pins, amphenol type

NOTE:

Specifications and the design subject to possible modification without notice, due to improvements.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before operating the appliance.

RETAIN INSTRUCTIONS — The operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and related instructions should be followed.

CLEANING — Unplug the appliance from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

WATER AND MOISTURE

- The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- Do not handle the power cord with wet hands. This is extremely dangerous because you may get an electric shock.
- Moisture forms in the operating sections of the appliance and the appliance's performance will be impaired if the appliance is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. To prevent this, let the appliance stand in its new surroundings for about an hour before switching it on, or ensure that the room temperature rises gradually.

ACCESSORIES — Do not place the appliance on an unstable cart, stand, tripod, bracket or table. The appliance may fall and possibly cause serious injury, or serious damage to the appliance. Place the appliance on a stable cart, stand, tripod, bracket or table.

VENTILATION — Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the appliance and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug or other similar surface. The appliance should not be placed near or over a radiator or heat register. It should not be placed in a built-in installation such as a rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION

- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

- Always take hold of the plug to unplug it from the power outlet; do not unplug it by pulling on the cord. The cord may be damaged if you keep pulling on it.

LIGHTNING — For added protection for the appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.

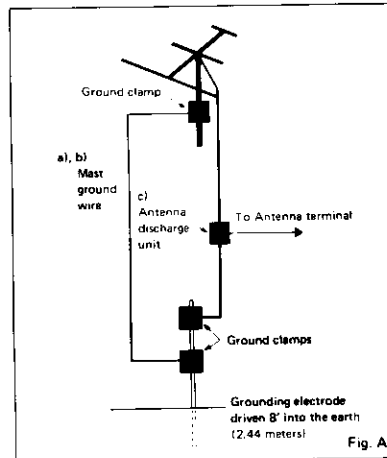
POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

FOREIGN OBJECTS AND LIQUID — Never push objects of any kind into this appliance through openings as they may contact dangerous voltage areas or other hazards. Be careful not to spill liquid of any kind on the appliance.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NEPA No. 70-1978 provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. A.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



- Use No. 10 AWG copper wire, No. 8 AWG aluminum wire, No. 17 AWG copper-clad steel wire, bronze wire or larger wire as ground wires for both mast and lead-in.
- Secure lead-in wire from antenna to antenna discharge unit and mast ground wire to house with stand-off insulators, spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.
- Mount antenna discharge unit as closely as possible to where lead-in enters house.

NON-USE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. Contact your nearest authorized Pioneer service center for all other servicing.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by an authorized Pioneer service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged;
- Objects have fallen onto, or liquid has been spilled into the appliance;
- The appliance has been exposed to rain;
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

REPLACEMENT PARTS — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

SAFETY CHECK — Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in safe operating condition.

IMPORTANT



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

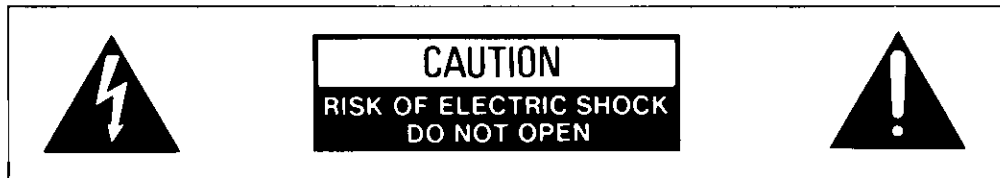


The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

NOTICE

The following warning labels appear on your videodisc player.

The warnings contained on these labels should be strictly adhered to:



Federal law requires the following warnings:

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

"Information to User"

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacture's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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 the receiving antenna

- relocate the equipment with respect to the receiver
- move the equipment away from the receiver
- plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems".

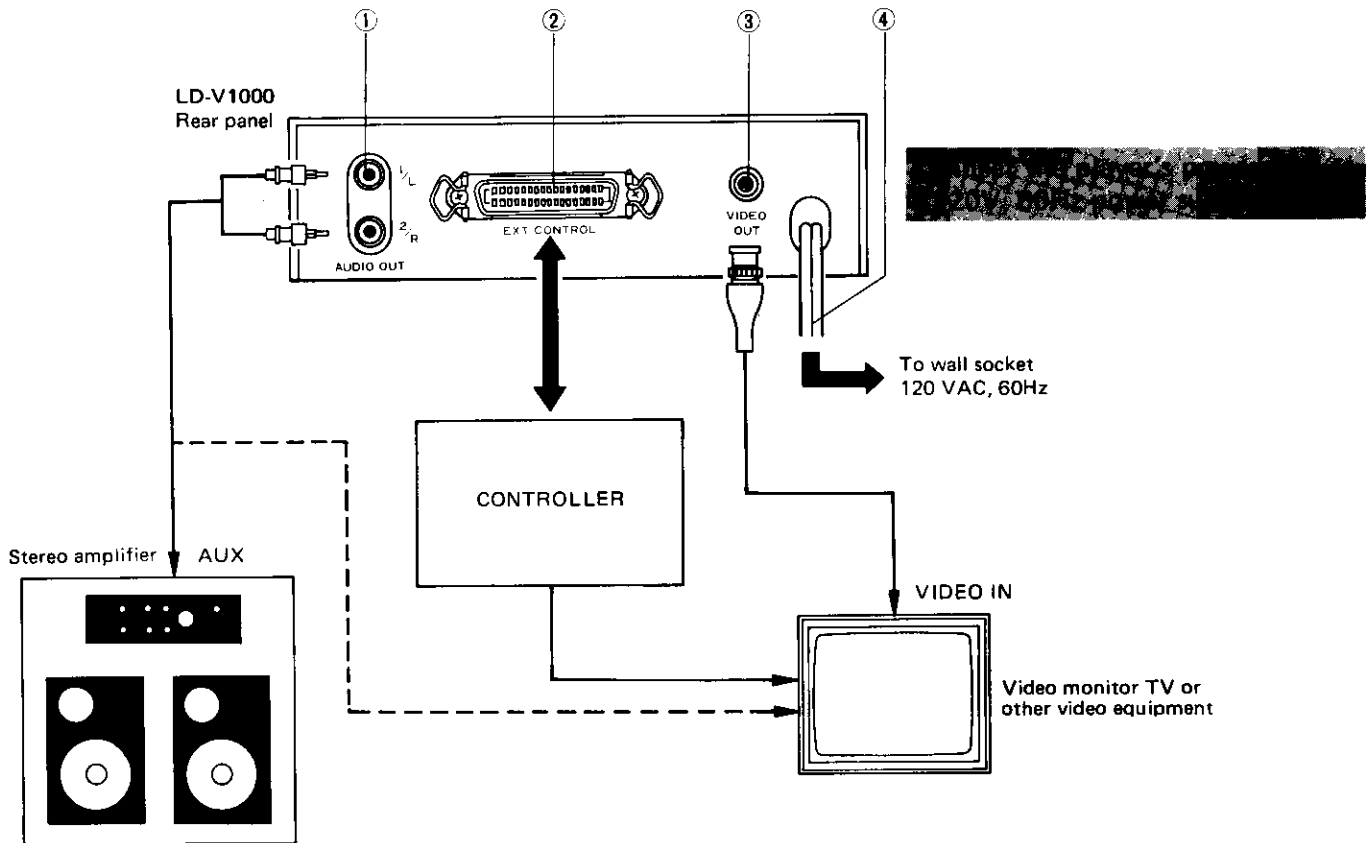
This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

The above instructions apply only to units which will be operated in the United States.

CONNECTIONS

Use the coaxial cable to connect the VIDEO OUT terminal on the player to the video input terminal on the monitor TV or other video equipment (terminated video input terminal). Audio output on the player should be connected to the audio inputs of the monitor TV (or other video equipment) or to the stereo system for audio reproduction.

NOTE:
The connections diagram shows only one example of the possible ways to perform connections. The method of connection differs depending on the control unit, video equipment and other units being used.



① AUDIO OUT

These jacks provide the left and right channel audio signals for connection to a stereo hi-fi system.

② EXT CONTROL

This terminal is used as an I/O port when the player is controlled by a controller.

③ VIDEO OUT

The terminal is for connection to a color video monitor TV or other video equipment (that have video input terminal). It provides the direct video signal.

④ POWER CORD

Plug this into a wall socket.

BEFORE OPERATION

OPENING AND CLOSING THE LID

- 1) Plug the AC power cord into a standard wall socket, then press the POWER button to turn on the player. (The red indicator above the button will light up.)
- 2) Press the REJECT/OPEN button to release the lid latch.
- 3) Then lift up at the front of the lid to open. Be careful not to force the lid beyond its normal fully open position.
- 4) When closing the lid, push down firmly so that the latch locks securely.

REMOVING THE SHIPPING SCREW

To prevent possible damage to the internal mechanism during shipment, a shipping screw is provided on the right of the objective lens.

This screw must be removed before the operation followed on opening the lid. Do not lose this shipping screw. It must be screwed back into the place if you ever need to ship or transport the player in future.

REMOVING THE LENS CAP

The objective lens is covered with a protective cap to prevent a damage and keep out dust during shipment. This lens cap must be removed before operating the player.

Save the lens cap and use it to protect the lens when the player is not in use for a long period of time or when shipping the player.

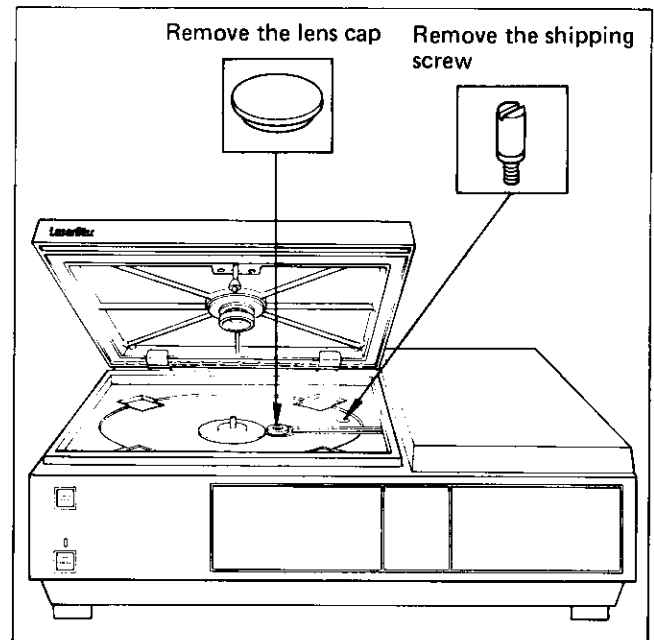
INSERTING AND REMOVING THE VIDEO DISC

- 1) Open the lid as described above.
- 2) With the label of the side you want to play facing up, place the video disc on the turntable. Be sure the center hole of the video disc stays in the convex spindle.
- 3) Shut the lid firmly. The disc clamp on the underside of the lid holds down the video disc magnetically. Then the video disc is ready to be played.
- 4) To remove the video disc, open the lid (as described above), hold the disc by both edges, and lift it off from the turntable. Replace the video disc in its jacket after use.

NOTES:

- Only open the lid when it is necessary to insert and remove the video disc. Otherwise, leave the lid closed to keep out dust and dirt.
- Only one video disc can be inserted at the same time.

This player is designed to operate on an AC power supply of 120V, 60Hz. Do not use it with a DC power supply or an AC power supply of a different voltage or frequency. Before using the player for the first time, be sure to remove the shipping screw and lens cap. The player will not operate properly if these parts are left in place.



Moisture forms in the operating sections of the player and the player's performance will be impaired if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or ensure that the room temperature rises gradually.

PRECAUTIONS

LOCATION

Place the player on a sturdy, level surface.

Avoid placing the player in locations subject to extremely high and low temperatures. In particular, do not use the player in a subject to direct sunlight, radiators, and other heating appliance. Heat can adversely effect the housing and internal parts. Also protect from high humidity, dust, smoke, steam, oil, and possible water spillage.

VENTILATION

Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the player and to protect it from overheating. These opening must not be blocked or covered. The openings should never be blocked by placing the player on a bed, sofa, rug or other similar surface

OPERATING TEMPERATURE

The player can be operated in an environment of between 5 and 35°C (41 to 95°F). Do not use the player in an extremely hot or cold environment.

POWER CORD

Handle the power cord by the plug. Do not pull out the plug by tugging on the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place furniture on the power cord or pinch the cord between two pieces of furniture. A damaged power cord can cause a fire or give you a strong shock.

DO NOT MOVE THE PLAYER WHILE IN OPERATION

Do not move or bump the player while a disc is being played since this could prevent the player from operating properly and may even result in a breakdown.

USE NTSC VIDEO DISC

This player is for exclusive use with NTSC color system, please use only NTSC video discs with the universally standardized Laser Vision symbol. The PAL system video disc cannot be used with this player.

DEFECTIVE DISCS

Disc rotation is at an extremely high rate of speed. Consequently, use of defective discs (cracked or severely warped) must be avoided.

TROUBLESHOOTING

Before concluding that the player is out of order, please refer to this troubleshooting guide to make sure that there is not a simple remedy for the problem. The vast majority of performance problems have their source in set up errors bad connections to other equipment, or malfunctions of other equipment.

Find trouble symptom on the chart below, and try the suggested remedies.

SYMPTOM	CAUSE	REMEDY
Lid does not open.	<ul style="list-style-type: none"> ● Power cord is not properly plugged into AC wall socket. ● Power switch is not turned on. ● Latch is not released. 	<ul style="list-style-type: none"> ● Plug in power cord. ● Turn on power switch. ● Press REJECT/OPEN button.
Disc does not rotate.	<ul style="list-style-type: none"> ● Power is not on. ● Lid is not shut completely. 	<ul style="list-style-type: none"> ● Plug in power cord. ● Turn on power switch. ● Push lid and close it firmly so latch locks.
Disc stops rotating soon after starting.	<ul style="list-style-type: none"> ● You are playing the unrecorded side of a disc. 	<ul style="list-style-type: none"> ● Turn over disc.
Disc rotates but there is no picture.	<ul style="list-style-type: none"> ● Wrong connection from player to video monitor TV. 	<ul style="list-style-type: none"> ● Make correct connections.
Picture quality is bad.	<ul style="list-style-type: none"> ● Bad connections between player and video monitor TV. ● Poor disc. 	<ul style="list-style-type: none"> ● Check all connections, particularly BNC type plugs. ● Try playing a different disc. If other discs give good quality, the problem is with that particular disc.

MAINTENANCE

Cleaning the player

- Use a soft, clean cloth to wipe off dust and dirt accumulated on the player. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt.
- Never use paint-thinner, benzene, or other solvents. They react with the surface and cause color changes and melting.

Video disc care

- Video discs are made of hard plastic. Use a soft cloth to lightly wipe off dust and dirt.
- Finger prints and dust on the video disc do not affect the recorded signal. However, excessive dirt may interfere with reproduced picture quality, so it is a good idea to keep the video discs clean.

- Therefore, it is best to handle video discs by the outer edges and center hole only, just as you would do with ordinary phonograph records.
- Always replace discs in their jackets after use. To prevent warping, keep discs away from high temperature and humidity.

Objective lens care

The objective lens is a key part of the player. Note that the lens surface must be clean in order to maintain best performance. Never try to touch the lens surface. Hold the lid closed to keep out dust and dirt unless it is necessary to open for installing and removing a video disc.

If an amount of dust or dirt becomes heavy enough, it may degrade picture quality. Dust can be removed from the lens with an air blower for a camera lens.