

Operating Instructions

CD CDV LD PLAYER

LaserDisc

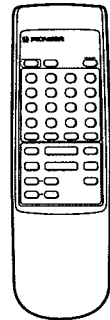
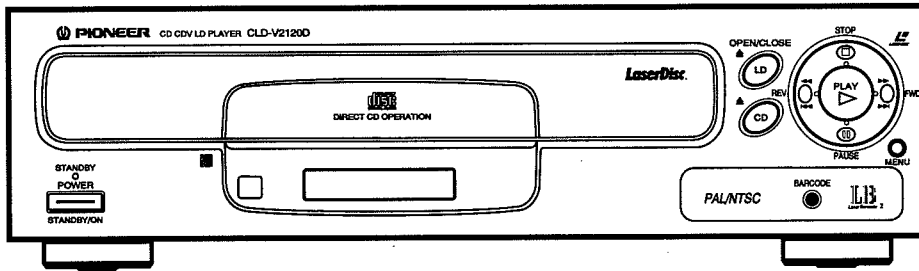
CLD-V21200

COMPACT
disc
DIGITAL AUDIO

L
LASER DISC

LB
LaserBarcode 2

PAL/NTSC



Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference. In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

WARNING:

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

IMPORTANT



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to 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 to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

 **PIONEER**
The Art of Entertainment

IMPORTANT

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code :

Blue : Neutral
Brown : Live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor or the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows :

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug.

NOTE

After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost replacement fuse covers can be obtained from: your dealer.

Only 5 A fuses approved by B.S.I. or A.S.T.A to B.S. 1362 should be used.

IMPORTANT

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.

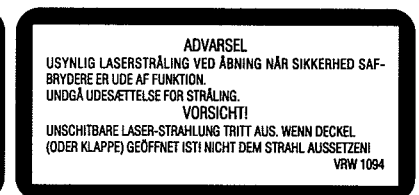
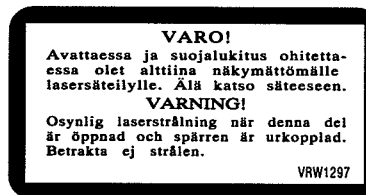
Refer all servicing to qualified personnel.

The following caution label appear on your player.

Location: On the rear panel of the player



On the bonnet of the player



- *"This product complies with the Low Voltage Directive (73/23/EEC), EMC Directives, (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC)*

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

CONTENTS

<p>PRECAUTIONS 4</p> <p>ACCESSORIES 5</p> <p>REMOTE CONTROL OPERATIONS 5</p> <p>DISCS 6</p> <p>CARE OF DISCS 7</p> <p>CONNECTIONS 8</p> <p>NAMES AND FUNCTIONS 10</p> <p>TO SWITCH THE FORMAT BETWEEN PAL AND NTSC 12</p> <p>TO CHANGE THE SCREEN DISPLAY LANGUAGE MODE 13</p> <p>TO PLAY AN LD, CDV, OR CD 14</p>	<p>TO SEARCH FOR A PARTICULAR CHAPTER/TRACK 16</p> <p>TO SEARCH FOR A PARTICULAR TIME/FRAME 17</p> <p>TO PLAY ALL CHAPTERS/TRACKS IN RANDOM ORDER 17</p> <p>EXTRA PLAYBACK (CAV discs only) 18</p> <p>TO PLAY ONLY DESIRED SCENES/TRACKS 19</p> <p>TO REPEATEDLY PLAY A DESIRED PASSAGE 20</p> <p>OPERATION WITH THE OPTIONAL BARCODE READER 21</p> <p>DISPLAY SWITCHING 22</p> <p>TROUBLESHOOTING 23</p> <p>SPECIFICATIONS 26</p>
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■ This player may be used with LaserDiscs, Compact Discs, and Compact Discs with Video bearing the following symbols:

(LASERDISC SYSTEM)/(LaserVision Disc)*



This is the unified symbol mark of LASERDISC (LaserVision videodisc).

* LaserDisc players and discs which bear this symbol and use the same television system, are mutually compatible.

(Compact Disc)



(CD VIDEO SYSTEM)**



(8 cm Compact Disc)



** CD Videodiscs are recorded with subcodes, which are the non-audio recordings of TOC data such as track numbers, index numbers, etc. However, there are some discs without these marks.

PRECAUTIONS

If it becomes necessary to transport or ship this unit in the future, be sure to first remove the disc (if loaded), and retract the disc table to its closed position. Then turn the power off, and, after the "OFF" display goes out on the display, disconnect the power cord.

INSTALLING THE PLAYER

- Place the player on a stable platform next to the television and stereo system to be used with the player.
- Do not place heavy objects such as a television or TV monitor on top of the player.
- Do not place the player on top of your TV set or TV monitor. Also, keep the player away from devices such as cassette decks which are sensitive to magnetic fields.

DO NOT INSTALL THE PLAYER IN THE FOLLOWING LOCATIONS

- In a place subject to direct sunlight.
- In humid or poorly ventilated places.
- In extremely hot or cold places.
- In a place subject to vibrations.
- In a dusty place.
- In a place subject to soot, steam or heat (in a kitchen, etc.)

AVOID SOURCES OF HEAT

Do not put the player on sources of heat, such as an amplifier. When installing with audio components on a rack, avoid components that generate heat, by placing the player below such components where there is adequate ventilation and not much dust. Avoid placing the player on surfaces such as shaggy carpets, beds, and sofas which may block ventilation under the player and cause damage.

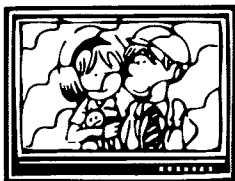
CAUTION

Even when the player is in the pause mode, the disc-drive motor is still revolving. Since leaving the player in this condition can shorten the lifetime of the motor, do not leave the player in the pause mode for long periods of time. Also, to prevent the damage to the screen, do not use the unit for long periods of time under conditions in which the screen display (monitor) has been displayed characters (for example, power-ON mode, CD PLAY or PAUSE).

With LD discs, if playback is paused for about 20 minutes, the player will automatically enter stop mode.

STRIPE PATTERNS APPEARING ON A TV PROGRAM

Stripe patterns may appear during a TV program if the player unit is turned on, depending on the quality of reception of the TV station. This is neither a malfunction of the television nor the player. If stripes appear while watching the TV, or when watching the TV for long periods of time, turn the player off.



When FM or AM stations are being received, signal noise may be generated if the player is turned on. Turn off the player when not in use. Also, if there is signal noise when receiving radio stations with an indoor antenna, adjust the position or direction of the antenna.

CONDENSATION

Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired.

To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging 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 the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord regularly. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CAUTION WHEN INSTALLING IN A RACK HAVING A GLASS DOOR

Be careful to install so that when the disc table is opened by remote control it does not hit the glass door. Strong force against movement of the disc table may cause breakdown.

CLEANING CARE

Use a soft, dry cloth for cleaning. For stubborn dirt, soak the cloth in a weak detergent solution; wring well first and wipe. Use a dry cloth to wipe it dry. Do not use any volatile agents such as benzine or paint thinner, as they may damage the surface of the player.

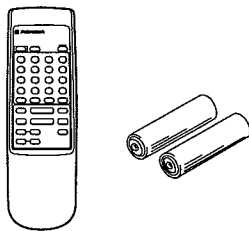
Abnormal functioning of this unit may be caused by static electricity, or other external interference. To restore normal operation, unplug the AC power cord and then plug it in again.

Only one disc can be loaded at any one time. Loading a LaserDisc, a Compact Disc, a 8 cm Compact Disc or a Compact Disc with Video on top of one another may result in a breakdown, or in scratching of the discs. Please only load one disc at a time.

ACCESSORIES

When unpacking the player, first check to make sure that all of the accessories listed below are supplied.

- Remote control unit
- Size "AA" (IEC R6P) dry cell battery x 2



- Operating instructions

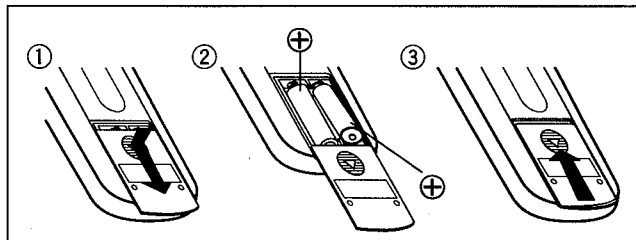
REMOTE CONTROL OPERATIONS

INSERTING BATTERIES INTO THE REMOTE CONTROL UNIT

Open the battery compartment cover on the back of the remote control unit.

Insert size "AA" (IEC R6P) dry cell batteries into the battery compartment in accordance with the indications (\oplus , \ominus) inside the compartment.

Close the cover of the battery case.



Incorrect use of batteries may cause leakage or rupture.

Always be sure to follow these guidelines:

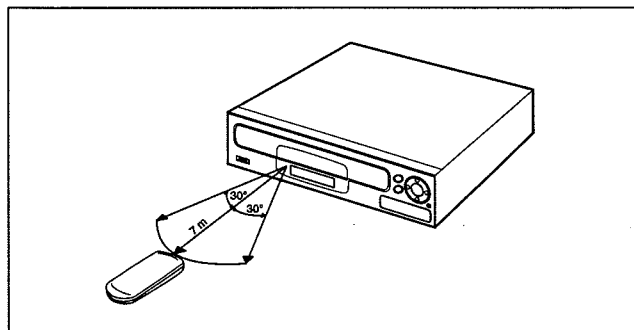
- Always insert batteries into the battery compartment correctly matching the positive \oplus and negative \ominus polarities, as shown by the display inside the compartment.
- Never mix new and used batteries.
- Batteries of the same size may have different voltages, depending on brand. Do not mix different brands of batteries.

When the unit is not to be used for a long period of time (more than one month), remove the batteries to prevent them from leaking inside the compartment. If leakage occurs, wipe up the liquid inside the compartment and replace the batteries with new ones.

Remote controllable range

Angle: Within 30 degrees to the left and right of the center line

Distance: Less than 7 m



NOTES FOR USING THE REMOTE CONTROL UNIT:

- If a plug is connected to the CONTROL IN terminal at the rear of the player, remote control operations cannot be done with the remote control unit aimed at the player's remote sensor. Aim the remote control unit at the control component display's sensor instead.
- If the player is used simultaneously with another appliance using infrared rays, the player may operate improperly. Should this happen, change the place of installation so that improper operation does not occur.
- If the range of operation of the remote control unit becomes too short, replace the batteries.
- If the remote sensor is in a position where it receives strong light such as sunlight or fluorescent light, control may not be possible.

DISCS

LD GLOSSARY

Chapter number

Chapter numbers are used to indicate the boundaries of the sections on a disc, similar to the "chapters" in a book. If chapter numbers are recorded on a disc, it is so indicated on the jacket of the disc, etc. Chapter numbers can be used to search for desired chapters (Chapter Search).

Frame number

Frame numbers are the numbers assigned to each picture frame on a CAV disc. Frame numbers can be used to search for desired frames (Frame Search).

Time number

Time numbers indicate the time elapsed from the beginning of a CLV disc. Time numbers can be used to search for desired scenes (Time Search).

CDV/CD GLOSSARY

Track number

Track numbers indicate the boundaries of the sections, or "tracks", on a disc. Track numbers are assigned consistently throughout the audio part and video part of a CDV disc. Track numbers can be used to search for desired tracks (Track Search).

TOC

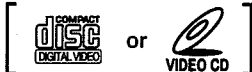
Every CD/CDV-type disc is provided with a section called TOC (Table Of Contents) at the beginning of the disc. The TOC section is just like the table of contents of a book, and contains information on the contents (number of tracks, playing time, etc.) of the disc.

- Some LD discs are not provided with a TOC section.

Discs other than those noted above cannot be played back with this player. (Example: Video CD, CD-ROM, LD-ROM, Hi-Vision LD, etc.)

Caution

VIDEO CD



cannot be played with this player.

The Video CD is a disc holding up to 74 minutes of digital video and audio signals, when recorded in the MPEG format.

LD DISCS

The CLD-V2120D can play both LD Discs and Compact Discs. Unlike conventional phonograph records, these discs are played back from the inside edge out.

LD Discs are available as both active play discs and long play discs.

• ACTIVE PLAY (CAV) DISCS

Active play discs are played at constant angular velocity (CAV).

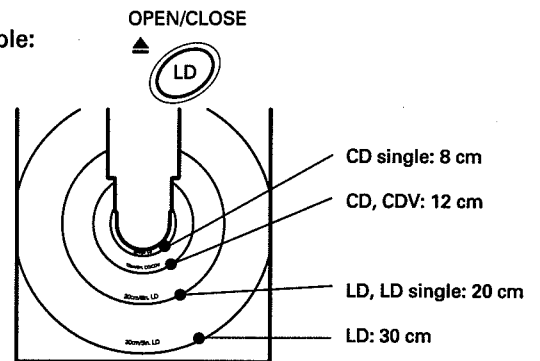
• LONG PLAY (CLV) DISCS

These discs are played back at constant linear velocity (CLV), and are therefore able to play for a longer time than active play discs.

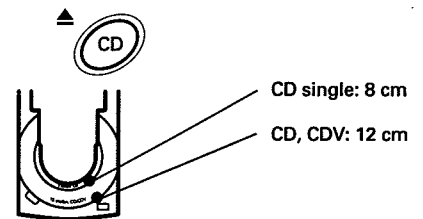
HOW TO PLACE A DISC

Place the disc in the correct position by using the appropriate disc guide groove.

LD disc table:



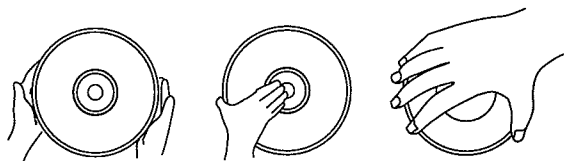
CD disc table:



CARE OF DISCS

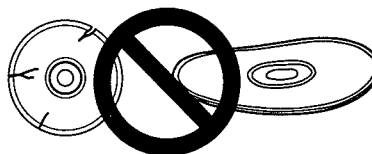
How to hold discs

When loading or removing discs, try not to touch their playing surfaces.



NEVER PLAY CRACKED OR WARPED DISCS.

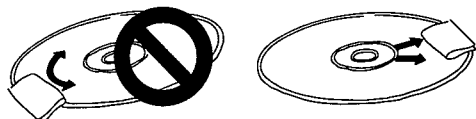
- The disc revolves in the player at a high speed when it is played. Never play a cracked, scratched or warped disc. This may damage the player or cause it to malfunction.



Cleaning

Fingerprints or other dirt on the disc may affect sound and picture quality.

To clean your discs, use a soft clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt or fingerprints.



Do not wipe in a circular direction
(Concentric scratches in the disc groove tend to cause noise.)

Gently wipe from the inside toward the outer edge.

Discs must not be cleaned with record cleaning sprays, or static prevention sprays, etc. Also do not use volatile liquids such as benzine, or thinner, etc.

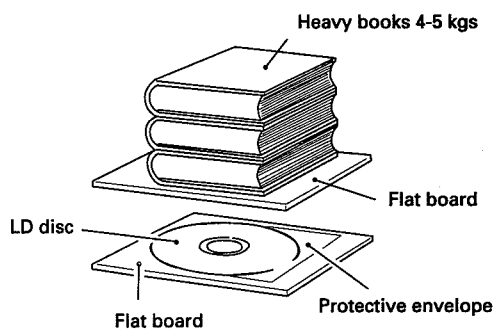
After using discs, store them upright.

After playing a disc, always remove it from the player and return it to its jacket. Then store it standing upright away from heat and humidity.

- Store discs carefully. If you store discs at an angle, or stacked on top of each other, discs may become warped even when in their jackets.
- Do not leave discs in locations such as the seat of car, which may become excessively hot.

If an LD disc is warped...

If an LD disc is warped, put the disc into its protective envelope, and then place it between two flat boards. Then place heavy books on top of the boards so that approximately 4 to 5 kgs is applied. Leave the disc like this for a day or so. This may correct the warp.



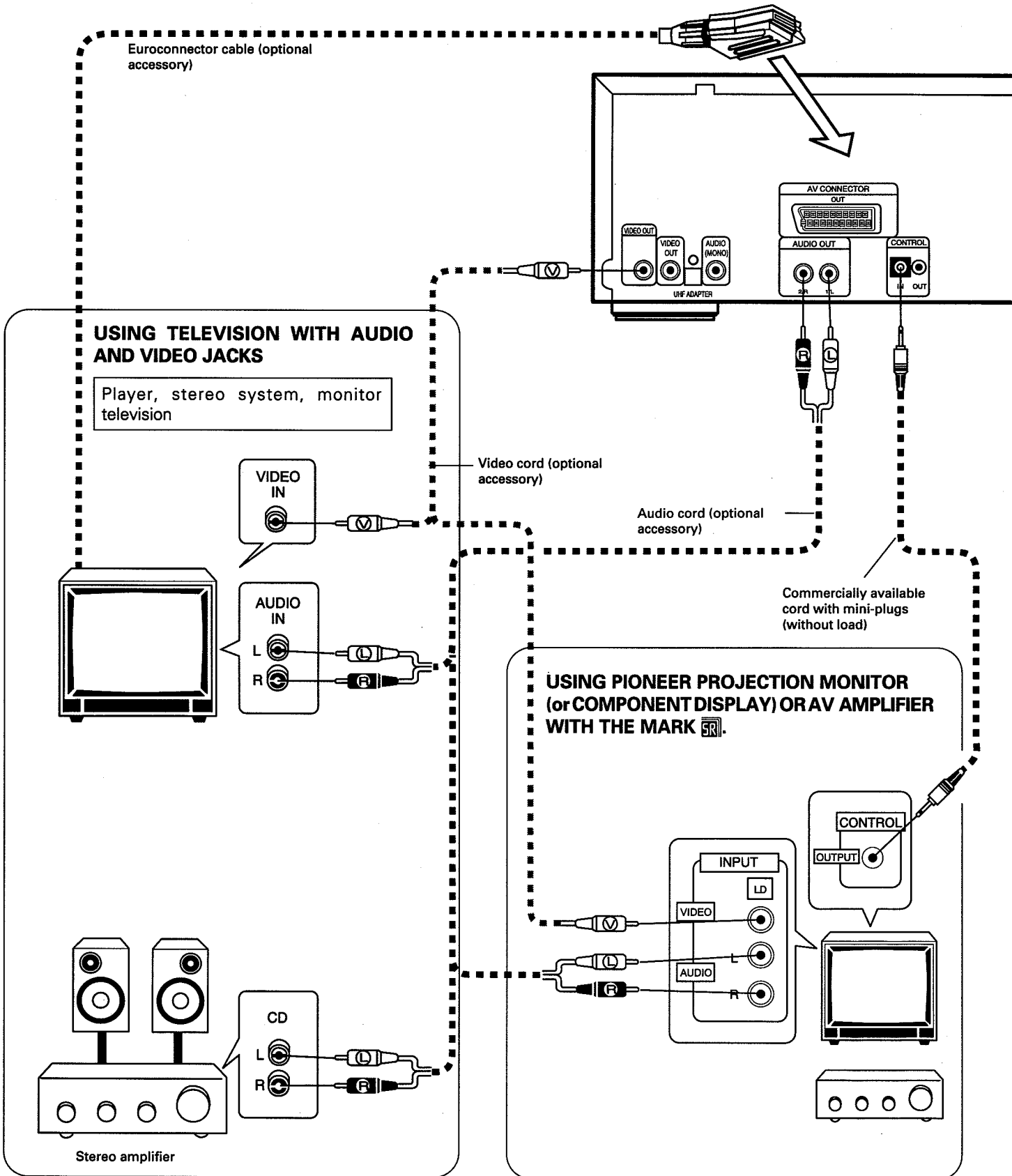
CAUTION WHEN USING THE DISC

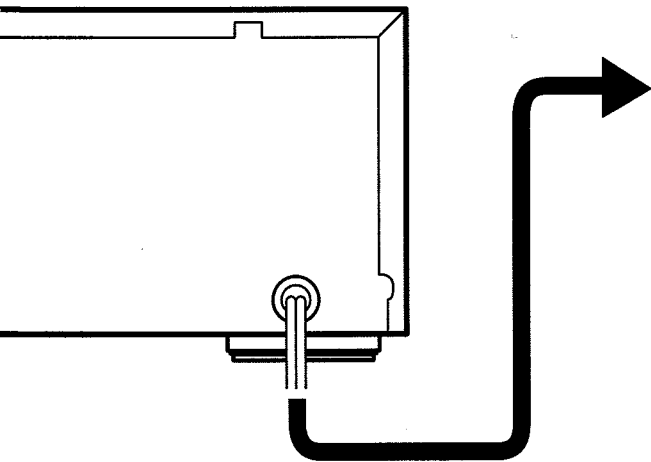
All rights reserved.

Unauthorized public performance, broadcasting or copying is a violation of applicable laws.

CONNECTIONS

Before making or changing the connections, be sure to disconnect the power cord of this unit from the AC outlet.





PLUG THE POWER CORDS INTO AN AC OUTLET

Plug the AC power cords of the player, stereo amplifier and TV set into an AC outlet.

When the power cord of this unit is connected to an AC outlet, power is supplied to the unit's internal memory (such as the last memory) even when the POWER switch is off (STANDBY). Therefore, be sure to connect the power cord directly to a wall outlet. If the power cord is connected to an outlet such as a switched outlet on an amplifier, the various memory contents will be erased whenever the amplifier's power switch is turned off.

Connections to a stereo amplifier

Connect the player's AUDIO OUT jacks to the stereo amplifier input jacks; AUX, CD, LD or VDP.

NOTE:

Do not connect these jacks to your stereo amplifier's PHONO input jacks.

THE SR MARK

System control can be performed when the player is combined with an optional AV amplifier, which can provide centralized control of Pioneer products with the SR mark.

Connect the VIDEO OUT jack of the player to the video disc video input jack of the AV amplifier and connect the AUDIO OUT jacks of the player to the audio input jacks of the AV amplifier.

Connect the CONTROL OUT jack of the AV amplifier to the CONTROL IN jack of the player using a commercially available cord with mini-plugs (without load).

- For details concerning the connection and operation methods, please refer to the operating instructions for the AV amplifier.

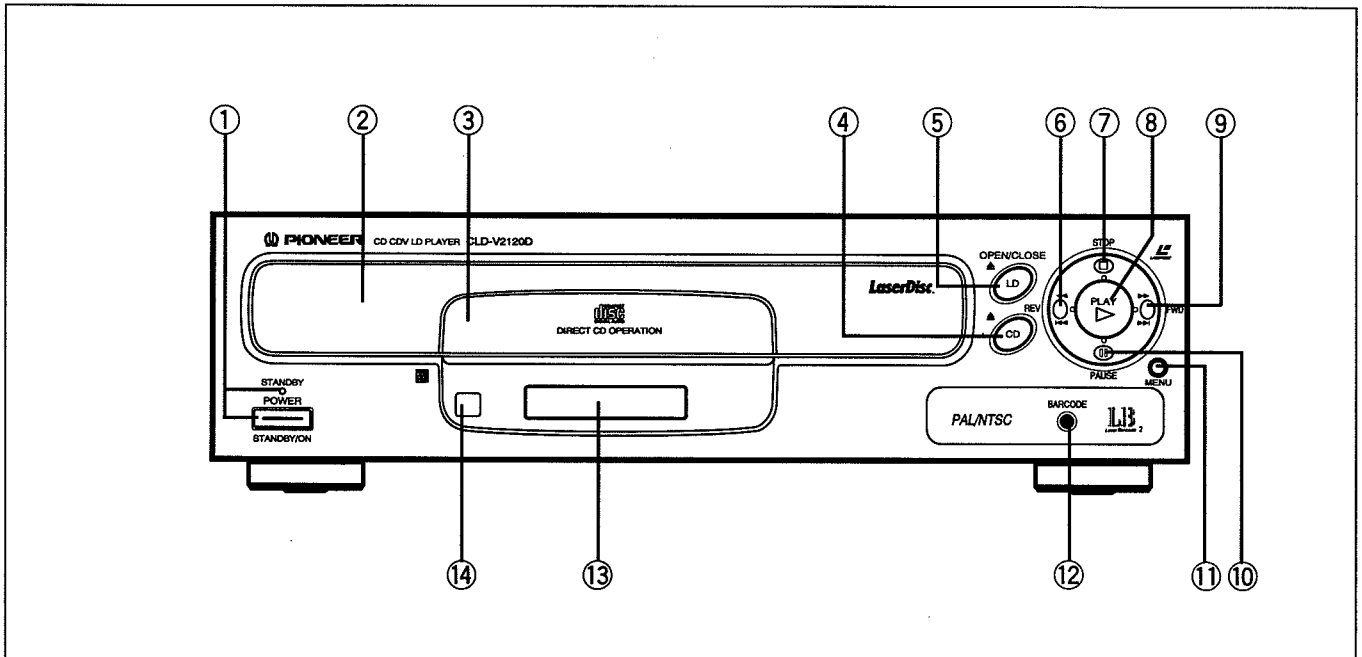
USING TELEVISION WITH AUDIO AND VIDEO JACKS

- Connect the VIDEO OUT jack of the player to the video input jack of the monitor television.
- Connect the AUDIO OUT jacks to the stereo amplifier AUX, CD, LD, VDP or other jacks, except the PHONO input jacks. The television speakers can also be used by connecting the television audio input jacks and the player AUDIO OUT jacks, however connection to a stereo amplifier is recommended to obtain superior audio playback quality for Compact Discs and LaserVision Discs. Do not change the television antenna connections.
- When using a video TV monitor (or TV) with AV CONNECTOR terminal, connect the AV CONNECTOR terminal to the AV CONNECTOR OUT terminal of the player. Use an optional Euroconnector cable.
- Connect the power cord to an AC wall outlet.

NAMES AND FUNCTIONS

Front Panel:

A detailed description is provided on the indicated page(s).



① **POWER STANDBY/ON switch and STANDBY indicator**

Press to turn the power on and off.

② **Disc table ... p. 6**

③ **CD disc table ... p. 6**

④ **CD OPEN/CLOSE (▲) button ... p. 14**

⑤ **LD OPEN/CLOSE (▲) button ... p. 14**

⑥ **Track/manual search (i◀◀ ◀◀i) button ... p. 15**

⑦ **STOP (■) ... p. 14**

⑧ **PLAY (▶) ... p. 14**

⑨ **Track/manual search (▶▶ ▶▶i) button ... p. 15**

⑩ **PAUSE (||) ... p. 14**

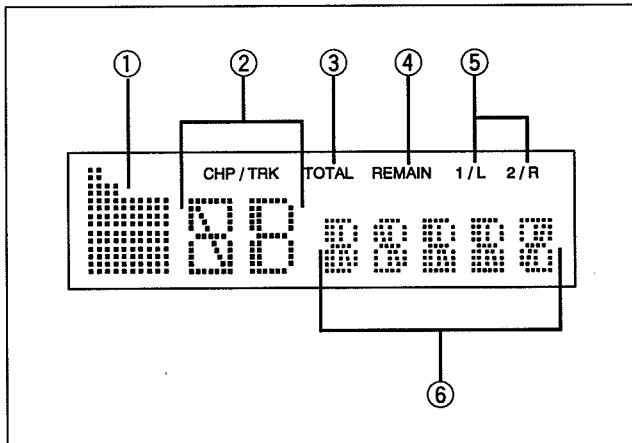
⑪ **MENU button ... p. 12, 13**

⑫ **BARCODE jack ... p. 21**

⑬ **Display window ... p. 11**

⑭ **Remote sensor ... p. 5**

Display window



① : Open/close of a disc table

: Play

: Pause

- ② Track number or chapter number is displayed.
- ③ Lights when total playback time (TOTAL) is displayed.
- ④ Lights when remaining playback time (REMAIN) is displayed.
- ⑤ Audio output channel lights.
- ⑥ Frame number or elapsed playback time is displayed.

● Currently activated function, etc. is displayed.

OPEN : The disc table is opened or being opened.

CLOSE : The disc table is closed or being closed.

PLAY : Start of disc playback

END : End of disc playback

INTRO : Intro scan

HILIT : Hi-lite scan

RDM : Random playback

PGM : Program playback

RPT : Repeat playback

S-RPT : One-side repeat playback

P-RPT : Program repeat playback

R-RPT : Random repeat playback

-OFF- : The power is turned off.

LD : LaserDisc

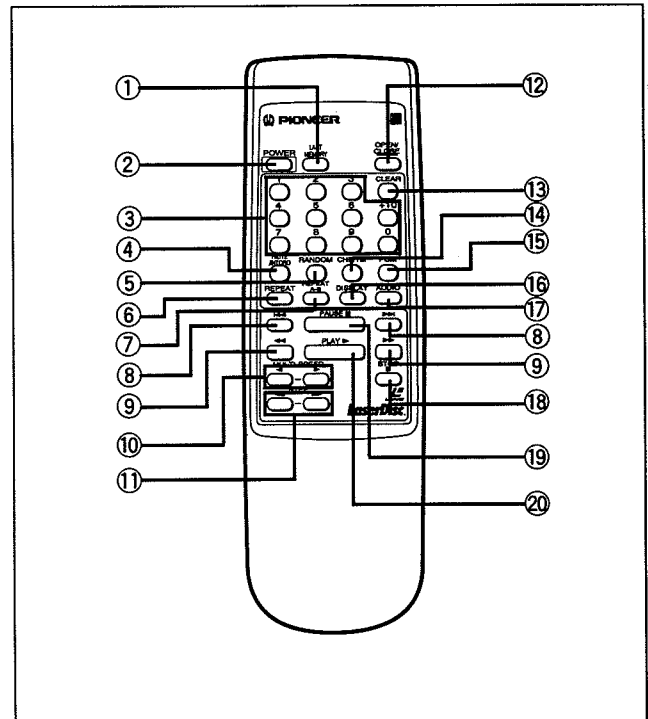
CD : Compact disc

CDV : Compact disc with video

NO DISC : No disc loaded

REMOTE CONTROL

Remote control buttons with the same names or marks as buttons on the front panel of the player control the same operations as the corresponding front panel buttons.



- ① **LAST MEMORY** button ... p. 16
- ② **POWER** button ... p. 14
- ③ **Digit** buttons ... p. 14, 17, 19
- ④ **HILITE/INTRO** button ... p. 16
- ⑤ **RANDOM** button ... p. 17
- ⑥ **REPEAT** button ... p. 20
- ⑦ **REPEAT A-B** button ... p. 20
- ⑧ **Skip** (\lll/\ggg) buttons ... p. 15
- ⑨ **Scan** (\lll/\ggg) buttons ... p. 15
- ⑩ **MULTI-SPEED** (\ll/\gg) buttons ... p. 18
- ⑪ **STEP** (\lll/\ggg) buttons ... p. 18
- ⑫ **OPEN/CLOSE** button ... p. 14
- ⑬ **CLEAR** button ... p. 17, 19, 20
- ⑭ **CHP/TM** (Chapter/Time) button ... p. 17
- ⑮ **PGM** (Program) button ... p. 19
- ⑯ **DISPLAY** button ... p. 22
- ⑰ **AUDIO** button ... p. 15
- ⑱ **STOP** (\blacksquare) button ... p. 14
- ⑲ **PAUSE** (\lll) button ... p. 14
- ⑳ **PLAY** (\gg) button ... p. 14

TO SWITCH THE FORMAT BETWEEN PAL AND NTSC

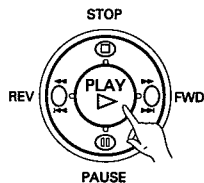
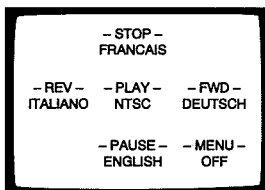
When this player is used in combination with a PAL format TV set, LDs recorded in NTSC format can be played as well as PAL format LDs.

1 Press the MENU button.

- The menu is displayed on the TV screen.



2 Set the PAL/NTSC setting by operating the button indicated by the menu (i.e., press the PLAY button for switching between PAL and NTSC).

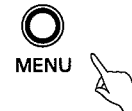


Player setting		Format of TV used	Format of LD used
Mode	Back		
PAL	Blue	PAL	PAL
NTSC	Blue	NTSC	NTSC
PAL (modulated PAL)	Black	PAL	

- When the disc is not loaded or CD is being played back, the mode can be selected manually.
- When an LD or CDV is being played back, the disc type is automatically selected. In case of PAL disc, PAL mode is selected. In case of NTSC disc, the NTSC or modulated PAL mode can be selected manually.
- The selected mode is memorized until the power cord is disconnected.

3 After setting, press the MENU button again.

- The menu screen disappears.



The menu screen can also be cleared by;

- pressing one of the remote control buttons, or
- pressing the LD OPEN/CLOSE or CD OPEN/CLOSE button on the front panel.

Tips:

- When you play an NTSC format LD, it is recommended to switch the player to NTSC if your TV set is switchable to NTSC format.
- In modulation PAL mode, the colour of the background is black when the power is turned on or NTSC system discs are played. In NTSC mode or PAL mode, the colour of the background is blue.

NOTES:

- Do not attempt to play a PAL format LD using an NTSC format TV. The picture would be black/white and stretched in about 120% in the vertical direction.
- Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage.
- If your PAL TV does not have a V-Hold control, you may not be able to view NTSC disc because the picture may roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen. This is not a malfunction; it is caused by the NTSC → PAL conversion.

TO CHANGE THE SCREEN DISPLAY LANGUAGE MODE

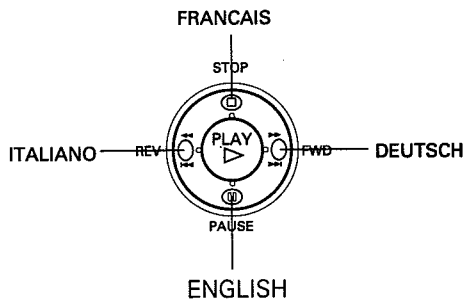
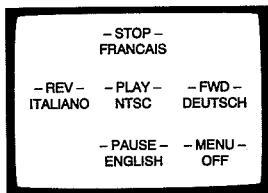
1 Press the MENU button.

- The menu is displayed on the TV screen.



2 Press the button corresponding to the desired language as indicated by the menu (refer to the illustration above).

- The name of the selected language blinks.



3 After setting, press the MENU button again.



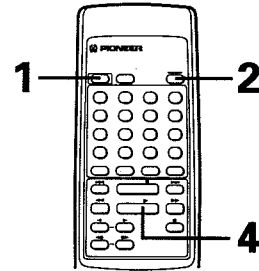
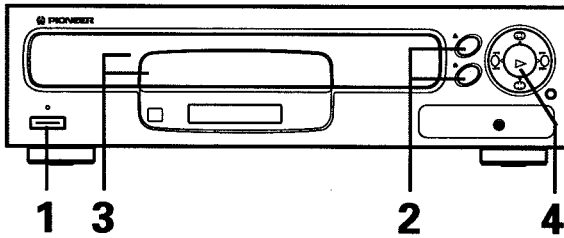
Tips:


- The setting of the language mode will not be cleared from memory even after the power is set to standby mode.
- For details regarding the French, German, Italian and Spanish display, refer to the descriptions in the accompanying pamphlet.

Other displays

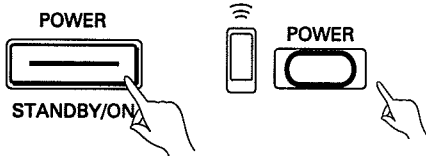
Lights - Flashes	Function
OPEN	Opening of the table
CLOSE	Closing of the table
STOP	Stop mode
PLAY	Play mode
PAUSE	Pause mode
SEARCH	Search
FRAME	Frame number
TIME	Time number
CLV	CLV play
LAST MEMORY 1 (2)	Last memory
PROGRAM	Program mode
STEP-	Chapter/Track program step
RANDOM	Random play
REPEAT MEMORY	Memory repeat
REPEAT A-B	A-B repeat
REPEAT SIDE -A (B)	One side repeat
REPEAT CHAPTER (TRACK)	Chapter/track repeat
REPEAT RANDOM	Random repeat play
REPEAT PROGRAM	Program repeat
INTRO	Intro scan mode
HILITE	Hi-Lite scan mode
STEREO	Stereo
1/L	Main audio/Left channel
2/R	Sub audio/Right channel
CX ON	CX noise reduction system ON
CX OFF	CX noise reduction system OFF
-NTSC-	Using NTSC system disc
-PAL-	Using PAL system disc
PAL	PAL system video output
NTSC	NTSC system video output
PSC ON	Picture-stop cancel function ON
PSC OFF	Picture-stop cancel function OFF

TO PLAY AN LD, CDV OR CD



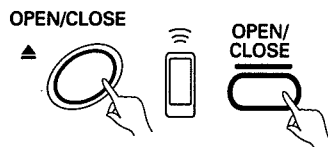
When the symbol [] is shown, the remote control may be used.

1 Turn on the power of this unit.



▲ on the front panel is pressed in the STANDBY mode, the power is automatically turned on and the disc table is opened.

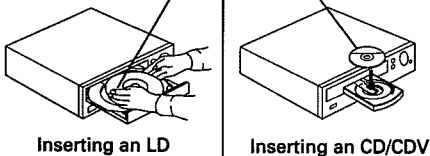
2 Open the disc table.



When the OPEN/CLOSE button of the remote control unit is pressed after the use of CD, the CD disc table comes out open. To play a LD, press the LD OPEN/CLOSE (▲) button on the front panel.

3 Place the disc on the disc guide groove.

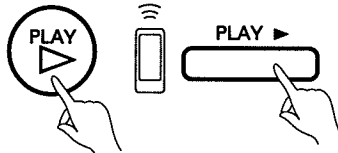
CD/CDV: Label side face up
LD: Side to be played upwards



Inserting an LD

Inserting an CD/CDV

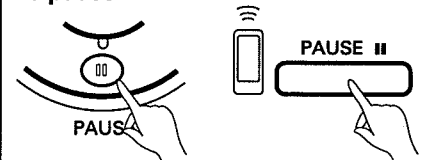
4 Start playback.



- When ► is pressed in STANDBY mode with a disc loaded in the player, the power is turned on automatically and playback starts.

II PAUSE

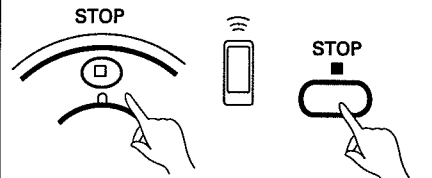
To pause



Press ► or II again to resume playback from the position where pause mode was entered.

■ STOP

To stop playback



To play from the desired chapter or track

<Direct search>

Press the digit button of the chapter/track number to be played first.
(Example) To play from chapter/track No. 3

To search for chapter or track number 10 or above:

Use [+10] button.

(Example) To enter 17: [+10], 7

To enter 30: [+10], [+10], [+10], 0

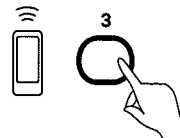
<Normal search>

Chapters can also be searched using CHP/TM.

(Example) To search chapter No. 17

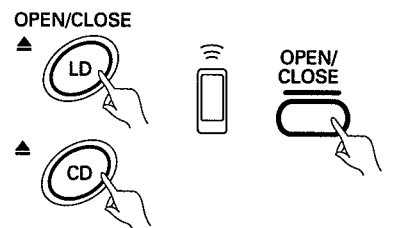
[CHP/TM] [CHP/TM] [1] [7] [▶]

The [+10] button cannot be used in this case.



▲ OPEN/CLOSE

To stop playback and remove the disc



After removing the disc, press ▲ or ► to close the disc table.

To avoid malfunctions, be especially careful about the following points.

- Do not place any object other than a disc on the disc table.
- Do not move the player while a disc is playing. This will cause the disc to be scratched.
- Be careful not to catch your finger in the disc table section while the disc table is being retracted into the unit. Also, be careful that children do not put their hands into the inside of the unit while the disc table is open. This may cause injury.

Precautions concerning disc loading

- Do not place more than one disc on the disc table. If two discs are placed one on top of the other on the disc table, discs may be scratched and/or malfunction may occur.
- With CDs, CDV discs, and single-sided LDs, always be sure to load discs with the label side facing upward.

Switching audio

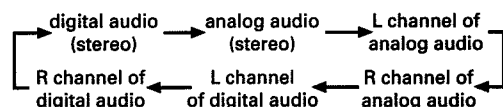
Each time AUDIO is pressed during playback, audio output is switched. For example,

- to hear only the analog audio of a disc with digital audio
- to hear only one channel of stereo disc
- to select audio of the multiplex disc

LD

NTSC format LD with digital and analog audio

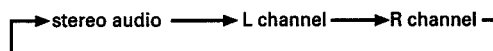
Audio source can be switched between digital audio, analog audio, L channel and R channel of stereo audio.



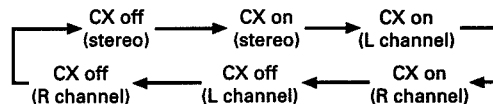
When a Multi Audio disc (an NTSC system LD bearing the **MULTI AUDIO** mark), you can listen to the various audio tracks on the disc by using AUDIO to select between the analog and digital audio tracks, and to select between the left (1/L) and right (2/R) channels.

PAL/NTSC format LD with analog audio

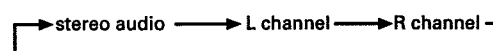
- With a disc encoded with CX auto-switching signals



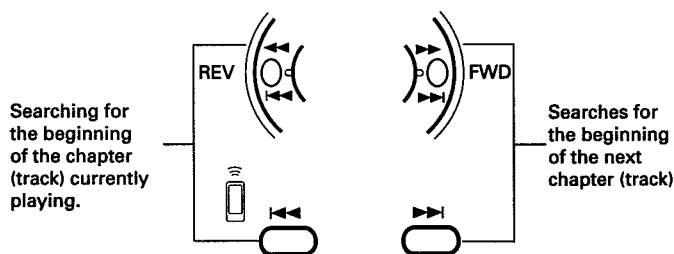
- With a disc not encoded with CX auto-switching signals



CD, CDV or PAL format LD with digital audio alone



⏮ ⏭ Chapter (Track) Skip – To search for the beginning of a chapter/track of the disc being played LD/CD/CDV



Press a button repeatedly or hold it depressed (only with the remote control unit); the chapters (tracks) will be skipped successively.

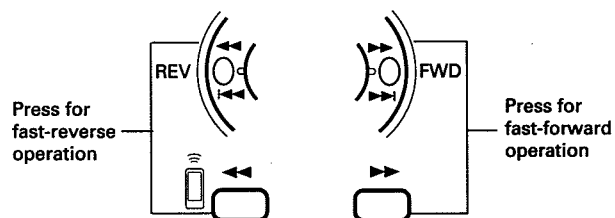
- When ⏮⏮⏮ or ⏭⏭⏭ on the front panel is pressed in stop mode, playback starts.

NOTE:

This function cannot be used with a disc which does not contain the recording of chapter numbers.

⏮ ⏭ Scan (Manual Search) – Search using fast forward or fast reverse

When the Track/manual search button is pressed in playback mode, playback advances or reverses at high speed. There are three scan modes.



Low Scan mode: Scan speed becomes about x10 of the normal playback speed.

High Scan mode: Scan speed becomes about x30 of the normal playback speed.

Clear Scan mode: The image may not fluctuate in this mode.

- With video part of CDV, High Scan mode cannot be carried out.
- With CDs or audio part of CDVs, Clear Scan mode cannot be carried out.
- In Clear Scan mode, when digital sound is selected with digital audio discs, sound is heard at a low volume level.
- With CDs or audio part of CDVs, sound is heard at a low volume level while scanning.
- Others: Sound is muted.
- The screen image may be disturbed during scanning, but this is not a malfunction.
- Clear Scan is not available in the Modulation PAL mode. Low Scan occurs if scanning is activated with Display ON.

Normally Low Scan and High Scan is performed. To perform Clear Scan, press DISPLAY on the remote control unit to display the screen and then press ⏮ or ⏭. For about two seconds after the button is pressed, Low Scan is performed, after that, the unit enters High Scan.

Discs marked with the ⓧ mark

Discs marked ⓧ are recorded with the CX noise reduction system for powerful audio reproduction with little noise. (Analog audio only) However, some discs marked ⓧ are not encoded with the signals necessary to instruct the unit to automatically switch on the CX system. If sound is noisy or undulates when a disc with a ⓧ mark is played, press AUDIO button on the remote control unit.

- ⓧ is a trademark of CBS inc. This player meets the CX EXPANDING SPECIFICATION.

Automatic picture stop

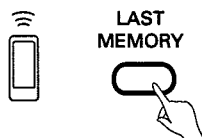
Some of discs contain recording of a special code called the "picture stop code", which turns normal play or slow play automatically into still frame display.

To cancel the automatic picture stop operation, press and hold ▶ or more than 2 seconds until "PSC ON" (picture stop cancel ON) is displayed on the screen. To re-activate, press and hold ▶ or more than 2 seconds again until "PSC OFF" is displayed.

TO PLAY AN LD, CDV OR CD

Last memory (LD)

When playback of an LD is stopped, it can be resumed from where it was interrupted.



After playback of an LD is stopped by pressing ■, leave the disc in the player. Press LAST MEMORY.

To resume playback from where playback is stopped:

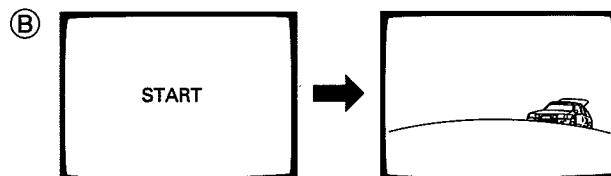


position slightly before the playback is stopped

position where playback is stopped

Press LAST MEMORY once. Playback starts from the point slightly before where ■ is pressed.

Playback of the last played part, repeating normal playback for about 2 seconds and fast-forward playback alternately, then normal playback from the point slightly before where playback is stopped.



Press LAST MEMORY twice.

Playback starts from the beginning of the disc, repeating normal playback for about 2 seconds and fast-forward playback alternately. The player enters normal playback mode from the point slightly before where ■ is pressed. When LAST MEMORY is pressed during fast-forward playback, normal playback starts from the point slightly before where previous playback was stopped.

NOTES:

- The LAST MEMORY function can only be used with an LD. This function cannot be used with CDs or CDVs.
- If you press ► after stopping playback with the ■ button, playback will restart at the beginning of the disc.
- Leave the disc in the player after stopping playback. If the disc has been taken out, the LAST MEMORY function cannot be used.
- The power cable should always remain connected to the power supply.
- Last memory ⓑ is not available in the Modulation PAL mode. The MENU button is not accepted during fast-forward playback.

TO SEARCH FOR A PARTICULAR CHAPTER/TRACK

Hi-Lite Scan/Intro Scan

Press HILITE/INTRO.



Hi-Lite scan (CD or audio part of CDV)

Press in stop mode to play an 8-second period from 1 minute 00 seconds to 1 minute 8 seconds of every track in sequence. The "HILITE" is displayed during this operation.

When the desired track is played, press ►. The unit enters play mode.

NOTE:

If the button is pressed in play mode, the 8-second Hi-Lite scan starts from that moment. For example, if the button is pressed at 1 minute 30 seconds of track No. 2, 8 seconds from 1 minute 30 seconds to 1 minute 38 seconds of every remaining track will be played.

Intro Scan (LD or video part of CDV)

When HILITE/INTRO is pressed, the beginning of each chapter is played for about 8 seconds. The "INTRO" is displayed in the Intro Scan mode.

When the desired chapter or track is played, press ►. The unit enters play mode.

- With CDV, Intro Scan starts with the video part, and then the audio part will be played with Hi-Lite Scan.

NOTE:

With discs which do not contain chapter numbers, Intro scan cannot be operated.

TO SEARCH FOR A PARTICULAR TIME/FRAME

Frame Number Search / Time Number Search

Frame Number Search (CAV discs only) — To search by designating the frame number

Any desired frame can be searched for by specifying its frame number.

1. Press **CHP/TM** during playback.
2. Enter the required frame number with the digit buttons (0 - 9).
3. Press **▶**.

When **▶** on the remote control unit is pressed to start search operation:

A still frame is displayed (CAV disc). To start normal playback, press **▶** again.

Time Number Search (CLV disc only) — Example: To search for the scene located at 12 min. 34 sec

1. Press **CHP/TM** during playback.
2. Enter **1**, **2**, **3** and **4** with the digit buttons.
3. Press **▶**.

CAUTION:

If a disc does not contain information in seconds, specify the time number only in the minutes.

Notes on searching for a chapter:

- If you make a mistake in pressing the digit buttons, press **CLEAR** and press the correct digit buttons.
- The **FF/10** button does not function.

To exit search mode:

Press **CLEAR**. Normal playback starts.

LD with TOC/CD/CDV

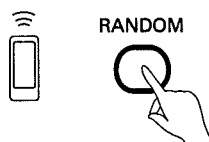
TO PLAY ALL CHAPTERS/TRACKS IN RANDOM ORDER

Random Playback

Random Playback allows all chapters/tracks to be played in random order.

- If **RANDOM** is pressed during Random playback, the current playing order is canceled and Random playback starts in another order.
- If LD which contains TOC, first press **▶** and then press **RANDOM**.

Press **RANDOM** on the remote control unit.



NOTES:

- With Random Playback, chapter No. 0 will not be played.
- It is not possible to play back the programmed contents in random order.

To stop Random Playback:

Press **■**.

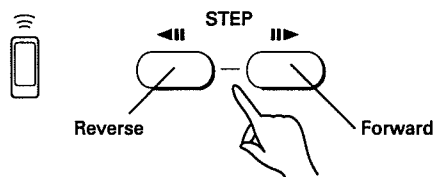
During Random playback:

- When **▶▶** is pressed the playback order of chapters/tracks is changed.
- When **◀◀** is pressed, playback returns to the beginning of the chapter or track being played.
- Random playback is canceled by pressing **CLEAR**. Playback continues in normal playback mode.
- When **RANDOM** is pressed again, random playback restarts with a newly selected order of tracks.

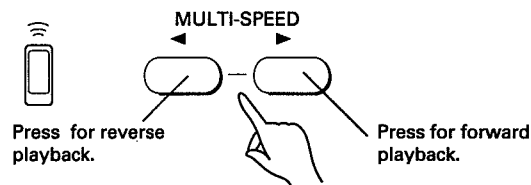
EXTRA PLAYBACK (CAV disc only)

◀||||▶ — Still frame and Frame -by-Frame advance function (CAV disc only)

Press repeatedly for frame-by-frame advance.



MULTI SPEED — To vary the playback direction or speed (CAV disc only)



When MULTI-SPEED is pressed once, playback speed becomes 1/8 of the normal playback. Each time the same button is pressed, playback speed changes as showing the table.

speed display	Playback speed
1/8	1/8 of the normal playback
1/2	half the normal playback
x2	twice the normal playback
1/2	half the normal playback
1/8	1/8 of the normal playback
1/30	1/30 of the normal playback

During Multi-speed playback:

Sound is not output.

With CLV discs:

Multi-speed, Frame-by-frame and Still Frame operations cannot be performed. If MULTI-SPEED or STEP is pressed during playback of a CLV disc, the warning message "CLV" will be displayed on the screen for about 3 seconds.

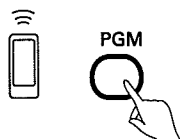
TO PLAY ONLY DESIRED SCENES/TRACKS – Program Playback

Selected chapters (LD) or tracks (CDV/CD) can be played in any desired order (max. 24 chapters or tracks).

- You can view the state of programming on the monitor TV screen.

Example: To program CD tracks 9, 7 and 18, in that order

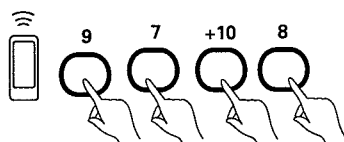
1. Press PGM.



Screen display for programming (CD or CDV)

3	0.12	PLAY
TOTAL	0 0.00	PROGRAM STEP- 1
▶	---	---
---	---	---
---	---	---

2. Enter 9, 7, +10, and 8 with the digit buttons.



After about 1 second

3	0.32	PLAY
TOTAL	3 8.30	PROGRAM STEP- 4
09	07 18 ▶	---
---	---	---
---	---	---

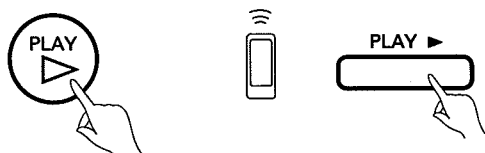
- The above example shows the condition when the display is on.

A pause between chapters/tracks can also be programmed by pressing the PAUSE **||** button instead of a digit button.

If you make a mistake during entry:

Press CLEAR on the remote control and enter the correct number with the digit buttons.

3. Press ▶.



To check the program contents

During program playback or in stop mode, press PGM to display the program contents on the monitor screen. When PGM is pressed again, the program contents disappear.

To modify the program contents

To delete or change a programmed chapter/track or pause:

- Press PGM.
- Press **◀◀** or **▶▶** to place the cursor (▶) on the left side of the chapter/track or pause to be changed.
- To delete it, press CLEAR. To replace it with another chapter/track, enter the new chapter/track number with the digit buttons.

Press **||** to enter a pause.

- Press PGM to complete programming. Pressing **▶** also completes programming and starts program playback with the new program contents.

- Programmed chapter/track being played cannot be erased or changed.
- Programmed pause being engaged cannot be erased or changed.

To clear the program playback

Press CLEAR to return to normal playback.

To clear the program contents:

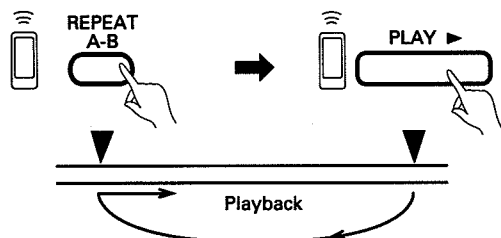
- Open the disc table.
- Press CLEAR while in stop mode.

NOTES:

- If **▶▶** is held depressed during Program Playback, the playback position will move to another chapter/track, but when **▶▶** is released, the next chapter/track in the program will be played. If **◀◀** is held depressed, the playback position returns to the beginning of the current chapter or track being played, but it will not go beyond it to a previous chapter or track in the program.
- During program playback, **◀◀** and **▶▶** can be used to skip the programmed chapters/tracks or pause.

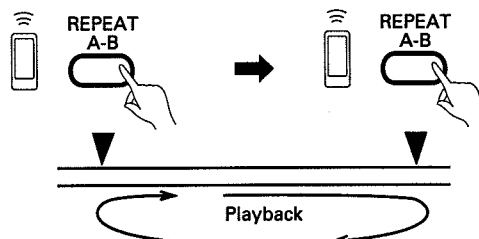
TO REPEATEDLY PLAY A DESIRED PASSAGE – Repeat Playback

Memory Repeat – To specify a point to later



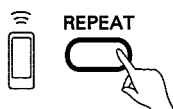
Press REPEAT A-B at the point you want to see or listen to again (point A). When you wish to return to point A, press ► on the remote control unit.

A-B Repeat – To repeat a specified section



Press REPEAT A-B at the start point of the section to be repeated. Press REPEAT A-B at the end point of the section to be repeated. Playback returns to the beginning of the section and the section is repeated continuously.

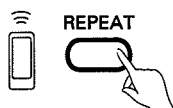
Chapter/Track Repeat – To repeat the current chapter or track



PRESS ONCE

Press REPEAT once while the chapter/track to be repeated is playing. When the end of the chapter/track is reached, the player returns to the beginning of the chapter/track and the chapter/track is played back repeatedly.

One Side Repeat – To repeat an entire side of a disc



PRESS TWICE

Press REPEAT twice. When playback reaches the end of the playback side, the player returns to the beginning of the disc and the same side is played back repeatedly.

Program Repeat – To repeat a program

With the program repeat function, you can repeatedly play programmed chapters or tracks in their programmed order.

Press REPEAT while the program is being played.

- See page 19 for details on programming.

Random Repeat – To repeat a random play

Press REPEAT during random playback.

With the random repeat function, you can repeatedly play the chapters or tracks in random order.

- See page 17 for details on Random playback.

To exit repeat mode:

Press CLEAR on the remote control unit.

To specify a different point in Memory Repeat mode:

Press CLEAR to cancel the previously memorized point, and repeat the same operation. The previously memorized point is erased and replaced with the new point.

Memory Repeat and A-B Repeat with CDV discs:

These repeat functions can only be carried out within the video part or within the audio part, and cannot be carried out between the two parts.

With LDs which have no chapter numbers:

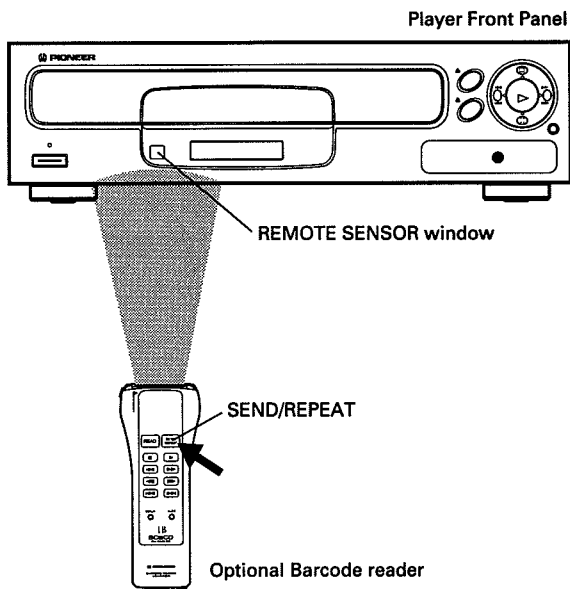
Chapter repeat cannot be carried out.

OPERATION WITH THE OPTIONAL BARCODE READER

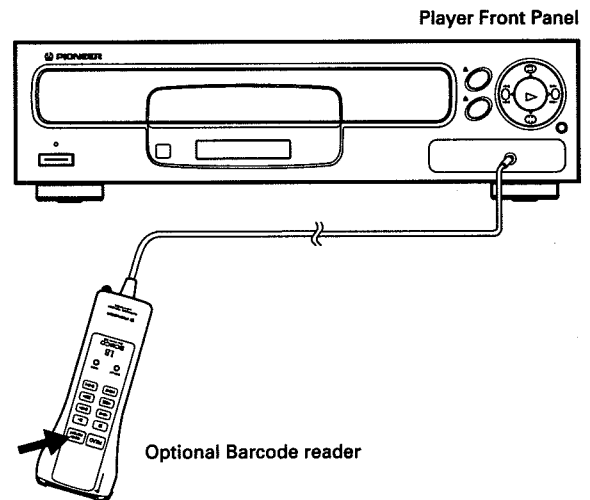
An optional PIONEER Barcode reader can be used. In this case, establish signal reception from the Barcode reader by either wireless (infrared ray) format or wired format. Whichever format is selected, always insert a battery in the Barcode reader.

Refer to the Barcode reader's operating instructions for more information concerning the use of the Barcode reader.

Wireless reception



Wired reception

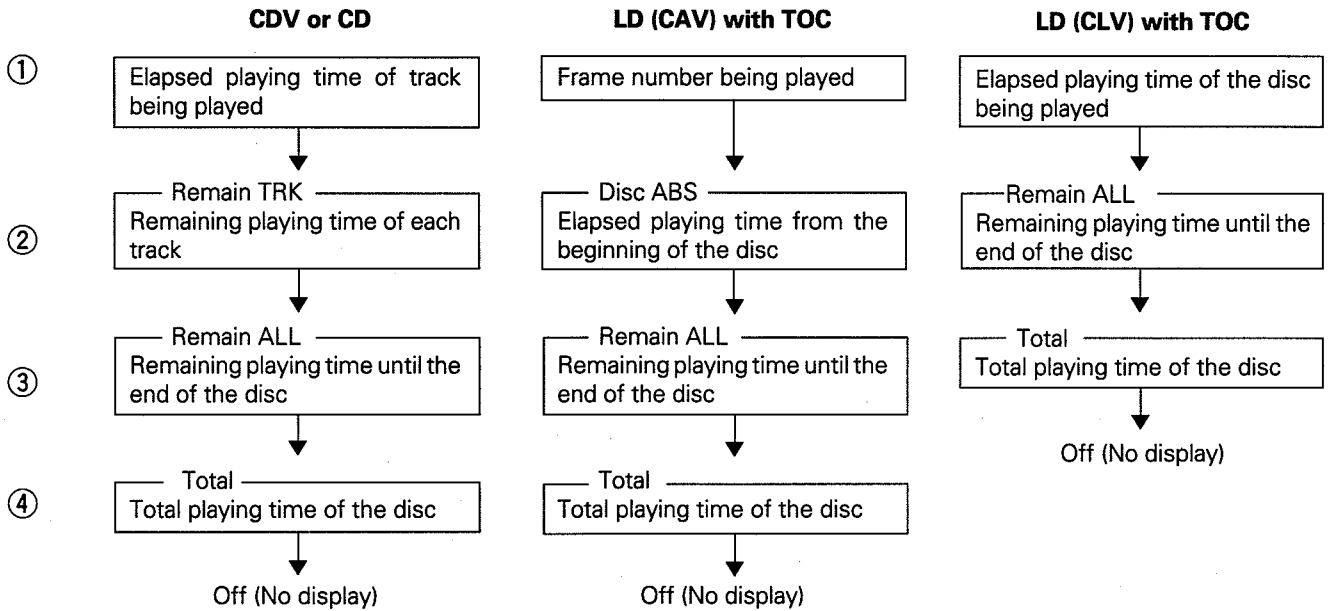


NOTES:

- Operating the remote control unit or main keys or giving serial commands simultaneously with wireless barcode commands may cause malfunction. To prevent improper operation, the Barcode reader should be used in wired mode, as this will automatically invalidate input from the remote control unit.
- The display will be cleared if the player is operated using the bar codes.
- If a CD or CDV disc is used, the Barcode instructions will be ignored.
- If an LD is used, the Bar Code CD instructions will be ignored.
- The Barcode reader will not work if the disc table is open. Place an LD and close the disc table before using the Barcode reader.

DISPLAY SWITCHING

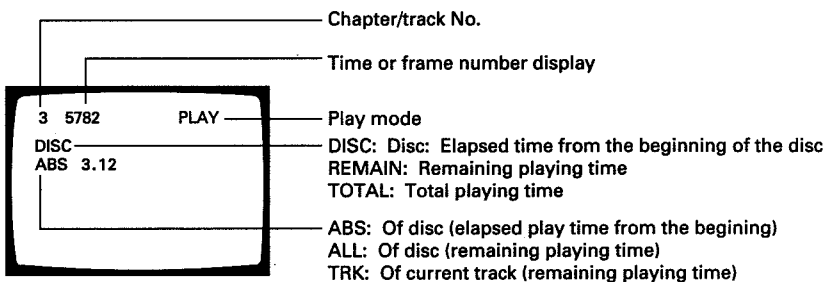
DISPLAY on the remote control unit allows you to display information including the play mode and disc playing time on the screen. Each press of DISPLAY switches the screen display as shown below.



LD discs without TOC:

Frame number (CAV)/Elapsed playing time (CLV) and Display-off mode are switched alternately on the display.

The actual screen display is as shown below.



The screen display disappears automatically if you leave it for a long time (for about 80 minutes or more) without any operation. In this case, press any button on the remote control unit so that the screen display will appear on the screen.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Common to LD and CD

	Symptom	Possible Causes	Reference Page
Operation	1. The disc comes out even when the disc table is closed.	<ul style="list-style-type: none"> ● The disc is dirty or warped. ● The disc is not placed properly on the disc table. ● Condensation formed inside the player. 	p. 7 p. 6, 14 p. 4
Remote control (including wireless Barcode reader)	2. Remote control or wireless Barcode reader operation is not possible. 3. Improper operation of TV set, etc., occurs.	<ul style="list-style-type: none"> ● The control input jacks are in use. ● The remote control unit is too far from the player. ● The batteries are exhausted. ● The Barcode reader will not work if the disc table is open. ● The Barcode reader will not work with CD or CDV software. (The Barcode reader is only for playing LDs.) ● Improper operation may occur with some TV sets. 	p. 8, 9 p. 5 p. 5 p. 21 p. 21
Wired Barcode reader	4. Wired Barcode reader control operation is not possible.	<ul style="list-style-type: none"> ● The connecting cord plug is disconnected or not inserted fully into socket. 	p. 21
Audio	5. Audio is not output or distorted.	<ul style="list-style-type: none"> ● The connection between the player and amplifier is erroneous or the plugs are not inserted fully into the jacks. ● The connection plug of the jack is dirty. ● The player is in pause mode. ● A wrong input is selected on the amplifier. ⇒ Refer to the operating instructions of the amplifier. ● The audio output is connected to the PHONO input jacks of the amplifier. ● If the player is left in pause mode for over 20 minutes, it automatically switches to stop mode. 	p. 8, 9 p. 4

LD

	Symptom	Possible Causes	Reference Page
Video, picture quality	6. The video cannot be viewed, the picture quality is poor or noise interferes with the video. 7. A part of the still frame image shakes.	<ul style="list-style-type: none"> ● The disc is dirty or warped. ● The power of the TV is turned off. ● The connection is erroneous or the plugs are not inserted fully into the jacks. ● The still frame image may shake if it shows a dynamic scene. 	p. 7 p. 8, 9 p. 18
Audio	8. Audio sound is undulating. 9. Audio is not output.	<ul style="list-style-type: none"> ● A disc which does not carry the CX mark is played while the CX system is ON. ● The player is in the multi-speed, still frame or frame-by-frame advance mode. 	p. 15 p. 18

TROUBLESHOOTING

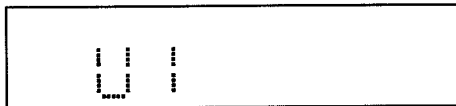
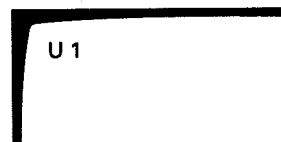
	Symptom	Possible Causes	Reference Page
Skip search	10. Skip, programming and search operations do not function properly.	<ul style="list-style-type: none"> ● The disc does not contain chapter number information. (The functions utilizing the chapter numbers cannot be used in this case.) 	p. 6, 7
	11. The search takes a long time (more than 40 seconds).	<ul style="list-style-type: none"> ● Some discs require much time for readout of data. 	p. 6, 7
	12. The start takes time.	<ul style="list-style-type: none"> ● Some discs tend to cause subcode readout error. (This is not a malfunction.) ⇒ Try pressing the stop and play buttons repeatedly to stop and restart playback. This repetition may sometimes make normal playback possible. 	
	13. A different time number than specified is searched.	<ul style="list-style-type: none"> ● Some discs tend to cause subcode readout error. (This is not a malfunction.) 	p. 17

CD

	Symptom	Possible Causes	Reference Page
Operation (CD)	14. Playback stops immediately after it has been started.	<ul style="list-style-type: none"> ● The disc is dirty. ● The disc is placed upside down. ● The disc is not placed properly on the disc table. 	p. 7 p. 14 p. 14

When troubles occur:

When some troubles occur during use of the player, the following display (service number) appears on the display of the player and the TV screen. If you are in those trouble, follow the "Remedy" below.

Display window of the player**TV screen**

Displayed number	Condition of the player	Remedy
U 1	A disc is not loaded correctly on the disc table. Or, a disc is dirty.	Reload a disc corresponding to a disc guide on the disc table. Wipe a disc with a soft cloth.
U 2		Open the disc table and press ► again.
F 5	Two discs are loaded on the disc table. Or, a disc is dirty.	Load only one disc on the disc table. Wipe a disc with a soft cloth.
P 2 L 3 E 4	(The displayed number after P, F, L, E differs depending on the condition of the player.)	Open the disc table and press ► again. If the same service number is displayed, the player is in abnormal condition. When requesting service, please notify the displayed number on the display of the player or on the TV screen (for example, 'service number E 4').
H 0 H 1 H 2	The player is in abnormal condition.	When requesting service, please notify the displayed number on the display of the player or on the TV screen (for example, 'service number H 1').

SPECIFICATIONS

General

System LaserVision Disc system and
Compact Disc digital audio system
Laser Semiconductor laser wavelength 780 nm
Power requirements AC 220 ~ 240 V, 50/60 Hz
Power consumption 33 W
Weight 5.7 kg
Dimensions 420 (W) x 381 (D) x 120 (H) mm
Operating temperature +5°C ~ +35°C
Operating humidity 5% ~ 85%
(There should be no condensation of moisture.)

Video characteristics

Format PAL/NTSC specifications
Video output
Level 1 Vp-p nominal, sync. negative, terminated
Impedance 75 Ω unbalanced
Jack RCA jack

Audio characteristics

Output level
During digital audio output 200 mVrms
(1 kHz, -20 dB)
Jacks Both RCA jacks
Number of channels 2

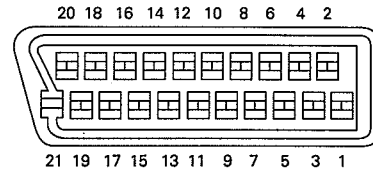
Digital Audio Characteristics

Frequency response	4 Hz - 20 kHz
SN ratio	98 dB (EIAJ)
Dynamic range	94 dB (EIAJ)
Total harmonic distortion	0.005 % (EIAJ)
Wow and flutter	Limit of measurement (EIAJ)

Other Terminals

BARCODE (front panel) Stereo miniature phone jack
Control input/output Both miniature jacks
UHF ADAPTER Both RCA jacks with DC jack
AV connector output 21-pin connector
This connector provides the video and audio signals for connection to a colour video TV monitor (or TV set) which has a "AV CONNECTOR" terminal.

PIN assignment



PIN no.	1 Audio 2/R out	17 GND
	3 Audio 1/L out	19 Video out
	4 GND	21 GND
	8 Status	

Accessories

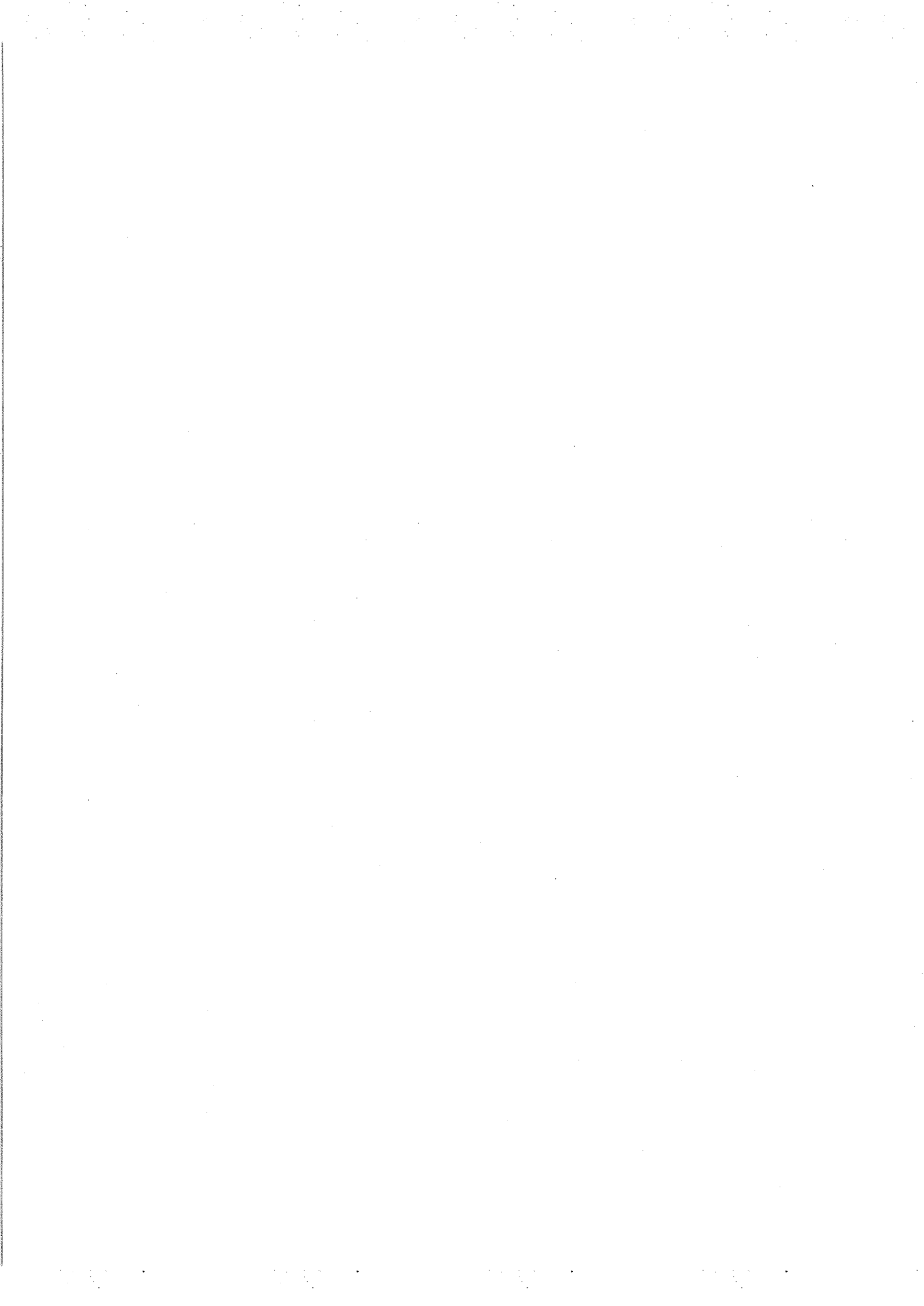
Remote control unit 1
Size "AA" (IEC R6P) dry cell batteries 2
Operating instructions 1

NOTE:

The specifications and design of this product are subject to change without notice, due to improvements.



This equipment accepts softwares with the LaserBarcode mark or the LaserBarcode 2 mark.



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