

Operating Instructions

PIONEER
The Art of Entertainment

L
LASER DISC

COMPACT
disc
DIGITAL AUDIO

NTSC

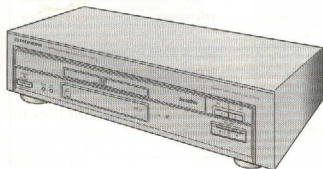
LaserDisc

CD CDV LD PLAYER

CLD-D406

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.

- This player is not suitable for commercial use.



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PREPARATION

CONNECTIONS

BASIC OPERATIONS

VARIOUS OPERATIONS

OTHERS

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.

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the product is operated.

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

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

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

CLEANING — The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



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

POWER SOURCES — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION — The appliance should be installed in a stable location.

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

GROUNDING OR POLARIZATION

• If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

• If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) prong, it 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 safety purpose of the grounding type plug.

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 corded plugs, convenience receptacles, and the point where they exit from the product.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the lead-in and supporting structure, grounding of the mast-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 Figure A.

LIGHTNING — For added protection for this product 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 product 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 other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY — Never push objects of any kind into this product through openings so they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - If the product has been dropped or damaged in any way.
 - When the product exhibits a distinct change in performance — this indicates a need for service.
- 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 this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WALL OR CEILING MOUNTING — The product should not be mounted to a wall or ceiling.

HEAT — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products including amplifiers that produce heat.

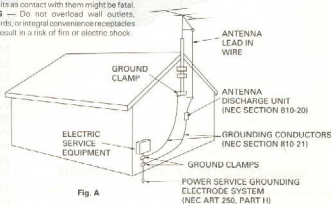


Fig. A

NEC — NATIONAL ELECTRICAL CODE

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

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

IMPORTANT NOTICE

[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

[For Canadian model]

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR LES CHOCES ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

[For Canadian model]

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

[Pour le modèle Canadien]

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

Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level **BEFORE** your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel

Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



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 in such a way that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

FOR PROPER AND LONG USE

■ DO NOT MOVE THE UNIT DURING PLAYBACK

During playback, the disc rotates at high speed. Do NOT lift or move the unit during playback. Doing so may damage the disc.

■ WHEN MOVING THE UNIT

When changing places of installation or packing the unit for moving, be sure to remove the disc and return the disc table to its original position in the player. Then, switch the power OFF. Check that the "—OFF—" indication on the display goes off, then disconnect the power cable.

■ INSTALLATION PLACE

- Select a stable place to the side of a TV set or stereo system to be connected to the unit.
- When using the unit with a stereo system, install the speakers a little bit away from the TV.
- Do NOT install the unit on top of a TV or color monitor. Install the unit away from equipment that may be affected by magnetism, such as a cassette deck.

■ AVOID INSTALLING IN A PLACE THAT IS:

- Exposed to direct sunlight
- Exposed to humidity or where ventilation is poor
- Extremely hot or cold
- Exposed to vibration
- Exposed to dust
- Exposed to oily smoke, steam or heat (for example, a kitchen)

■ DO NOT PLACE A HEAVY OBJECT ON TOP

Do NOT place a heavy object (TV set, amplifier, etc.) on the unit.

■ AVOID HEAT

Do NOT place the unit on equipment generating heat, such as an amplifier.

When installing the unit in a rack, place it on the lowest shelf possible (however, not where it is exposed to dust) and separated from the amplifier to avoid the heat generated by the amplifier or other audio equipment.



■ CAUTION: WHEN PLACING THE UNIT IN A STEREO RACK WITH GLASS DOORS

Be sure there is ample space between the unit and the glass doors when opening the disc table using the remote control. If the disc table opens against strong resistance, such as a closed glass door, damage to the unit may result.

■ 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.

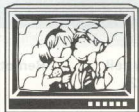
To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

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.



■ SWITCH THE POWER OFF WHENEVER NOT USING THE UNIT

Depending on the strength of the TV broadcast signal, having the TV set on while the power of the unit is ON may produce stripes on the TV screen. However, this is not a malfunction of this unit or the TV set. In such a case, switch the power of the unit OFF.



FEATURES

1. CD CDV LD PLAYER

This unit is a CD CDV LD player designed to play back discs ranging from 8-cm (3 in.) audio discs (CDs) to 30-cm (12 in.) video discs (LDs) without using an adapter.

2. EQUIPPED WITH TWO DISC TABLES [P.14](#) [P.15](#)

This unit has an LD disc table for playback of LDs and CDs and a CD disc table for CDs. Playback of CDs can be as speedy as with conventional CD players.

3. CONTINUE PLAY FUNCTION (LAST MEMORY) [P.18](#)

This unit has the Continue Play function to play back LDs from the point where playback was stopped. Playback can also be continued slightly before the point in a movie, etc. where playback was last interrupted.

4. ALL-SIDE PLAYBACK [P.14](#)

This unit is capable of playing the two sides of a double-sided disc continuously, without the necessity of turning the disc upside down. With the quick-turn function shortening the time till the start of playback, the time of side change from A to B or B to A during continuous playback can be shortened.

5. AC-3 RF OUTPUT TERMINAL [P.10](#)

This unit is compatible with Dolby* [AC-3](#). You can enjoy the 5.1 CH digital surround audio by connecting this unit with an amplifier or surround processor equipped with the AC-3 RF input terminal and playing LD software and Dolby surround AC-3 compatibility.

* Dolby, AC-3 and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

INVENTORY OF THE INCLUDED ACCESSORIES

AA/R6P dry cell batteries x 2



Remote control unit



6. AMPLE SCAN/SEARCH FUNCTIONS [P.21](#) [P.22](#)

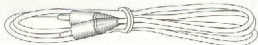
This unit has three types of scan functions convenient for quickly checking the content of the disc. Besides Normal Scan, the unit has, Intro Scan (plays back the first 8 seconds of each chapter/track) and Highlight Scan (plays back the 8-second portion starting 1 minute after the beginning of each track).

The search functions, convenient for specifying the portion to be played back, include Direct Search (to be specified by Chapter/Track number), Normal Search, Frame Search (to be specified by Frame number), and Time Search (to be specified by Time number).

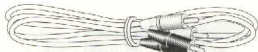
7. REPEAT FUNCTIONS [P.23](#)

This unit provides various repeat functions available for CD and LD, including the repeat playback by returning to the designated position, the A-B sectional repeat playback for repeating the designated section, the program repeat playback for repeating a program and the random repeat playback, as well as the LD-only repeat functions including the all-side repeat playback for repeating the two sides of LD disc and the 1-chapter repeat playback for repeating a single LD chapter, and the CD-only repeat function of the 1-track repeat playback for repeating a single CD track.

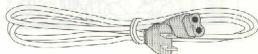
Video cord



Audio cord



Power cord
















Operating Instructions

Warranty card

DISC TYPES COMPATIBLE WITH THIS UNIT

This unit is a CD CDV LD player.

- The symbol indicated below is on the label or jacket of the discs. This unit can play back the following seven types of discs without using an adapter.

Compatible disc types and their symbol	Disc size	Maximum playback time on the playback side
CD 	CD 12 cm (5 in.) 	74 min. on a single side
	CD Single 8 cm (3 in.) 	20 min. on a single side
CDV 	CDV 12 cm (5 in.) 	20 min. on a single side with digital audio, 5 min. on a single side with digital audio and video
VSD VIDEO SPINLE F DISC 	VSD 12 cm (5 in.) 	5 min. on a single side with digital audio and video
LD   	LD 30 cm (12 in.) 	CAV 1 hour on a double-sided disc
		CLV 2 hours on a double-sided disc
	LD 20 cm (8 in.) 	CAV 23 min. on a double-sided disc
		CLV 40 min. on a double-sided disc
	LD Single 20 cm (8 in.) 	CAV 14 min. on a single-sided disc
		CLV 20 min. on a single-sided disc

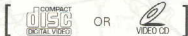
Discs other than the above cannot be played back with this unit.

Some discs that cannot be played with this unit:

Video CDs
 CD-ROMs
 LD-ROMs
 Hi-Vision LDs

Caution

VIDEO CD







cannot be played back with this unit.

(Video CD is a disc holding up to 74 minutes of digital video and audio signals.)

This unit conforms to the NTSC system. Discs of other systems (PAL or SECAM) cannot be used with this unit.

Handling the discs

	LD	CD/CDV
Holding with both hands Hold both sides of the disc.		
Holding with one hand Hold the edge of the central hole and the outside of the disc with your fingers.		

Caution

Do NOT paste on paper or similar material.
 Do NOT touch the disc surface.



Never use a cracked or warped disc.

Do NOT use discs that are cracked, deformed, or repaired with adhesive. Doing so may cause an accident.
 Do NOT use record spray, electrostatic protector or similar chemicals. Doing so will cause cracking.


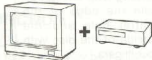



Storage

Be sure to remove the disc from the player after use. Place the disc into its jacket or case and store it vertically. Storing discs in a slanted position or stacking them may cause the discs to warp. Do NOT place discs in places exposed to direct sunlight, high temperatures or humidity.

CONNECTION METHODS

Select the proper connection method according to the TV (VCR) used with this unit.

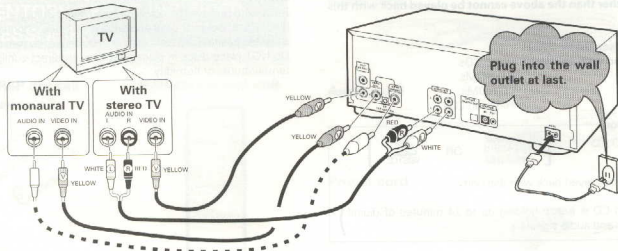
	Your video equipment	Reference figure	Comment
TV with video input jack		Fig. A	If your AV TV has an idle video input, this method is the simplest.
TV is connected to VCR		Fig. B	If your TV has some video input jacks and any of them is idle, the method shown in Fig. A is more convenient.
TV without video input jack		Fig. C	This method is used only when your TV does not have a video input jack. The use of an optional RF modulator (JA-RF3L) is required.

This unit can also be connected to a stereo amplifier, AV amplifier, an amplifier with the AC-3 RF input, etc. For the connection to such equipment, please refer to Fig. D.

⚠ CAUTION: Do not use other power cord than provided, or malfunction may result.

A CONNECTION WITH AN AV TV EQUIPPED WITH AUDIO/VIDEO INPUT JACKS

- Connect the plugs and jacks so that their colors (white, red, yellow) match to prevent mistake.
- When the TV has several video input jacks, select the proper input (VIDEO 1, VIDEO 2, etc.).
- Also read the operating instructions of your TV (video monitor or VCR).

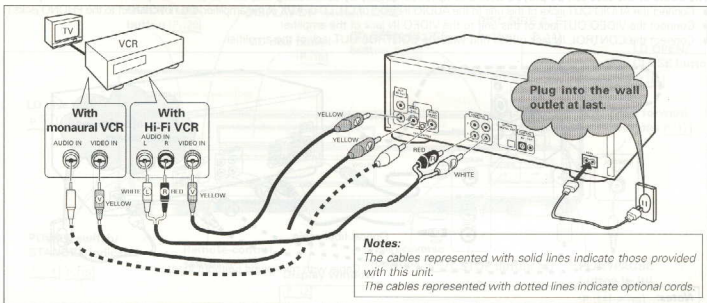


Notes:

The cables represented with solid lines indicate those provided with this unit. The cables represented with dotted lines indicate optional cords.

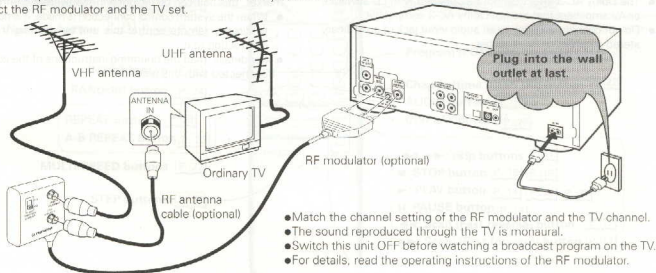
B CONNECTION WITH A VCR

- Connect the plugs and jacks so that their colors (white, red, yellow) match to prevent mistake.
- To view LD playback with the connection example shown below, switch the VCR ON, set the VCR input to "AUX INPUT", and operate the TV in the same way as when you usually watch a videotape.



C CONNECTION WITH A TV EQUIPPED ONLY WITH ANTENNA TERMINALS

1. Connect the optional RF modulator to the VHF ADAPTER jacks of this unit.
2. Connect the RF modulator and the TV set.



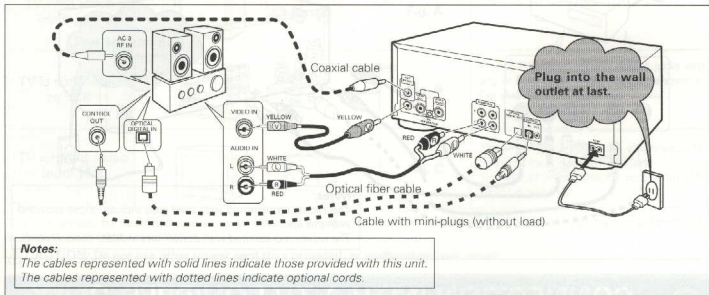
Note:

With some TV sets, stripe noise may interfere with the screen during playing a disc. In this case, move the antenna cord more apart from the power cord until the noise disappears.

D CONNECTION FOR PLAYBACK WITH BETTER SOUND QUALITY

The audio of the disc can be played with an improved quality by connecting this unit to an AV amplifier or stereo amplifier.

- Connect the AUDIO OUT jacks of this unit to the AUDIO IN jacks of CD, LD or AUX of the amplifier. (Do not connect to the PHONO jacks.)
- Connect the VIDEO OUT jack of this unit to the VIDEO IN jack of the amplifier.
- Connect the CONTROL IN jack of this unit with the CONTROL OUT jack of the amplifier.




AC-3 RF output jack

This output jack is compatible with the AC-3 (digital multi-audio format). Dolby AC-3 compatible LD software can be played by connecting this jack to an amplifier or surround processor equipped with the AC-3 RF input jack.

- The Dolby AC-3 effect cannot be obtained with LD software or AV amplifiers that are not Dolby AC-3 compatible.
- Do not connect this jack to an audio input jack of an ordinary stereo amplifier or AV amplifier.

● Connection with PIONEER component carrying the mark

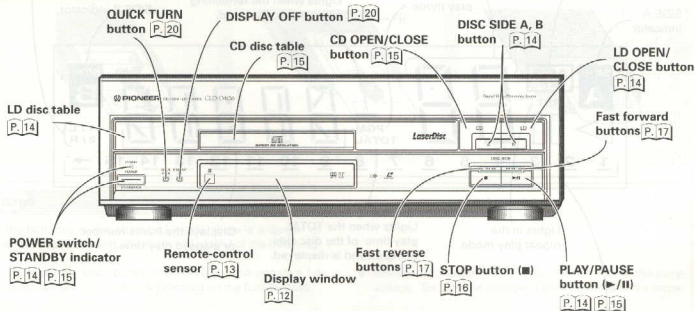
By connecting the CONTROL IN jack of this unit with the CONTROL OUT jack of a component with  mark through a cable with mini-plugs (without load) which is available in the market, this unit can be included in the system control.

- When the system control connection is made, it is not possible to directly remote control this unit by pointing the remote control unit to it.
- For details, read the operating instructions of the component connected with this unit.

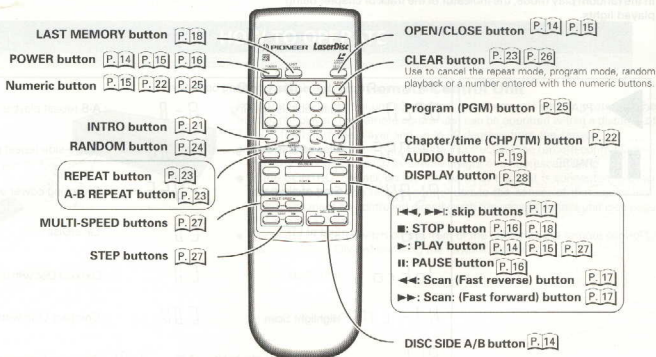
NAMES AND FUNCTIONS

See the pages indicated after the names for further details.

FRONT



REMOTE CONTROL UNIT



DISPLAY

Lights when a Dolby AC-3 compatible LD is being played.

Displays the track number or chapter number.

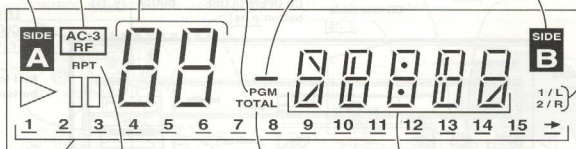
Light to indicate the audio channels being output.

SIDE A indicator

Lights in the program play mode.

Lights when the remaining play time is displayed.

SIDE B indicator



Lights in the repeat play mode.

Lights when the TOTAL play time of the disc side being played is displayed.

Displays the frame number or elapsed play time.

Light to indicate the track or chapter numbers recorded in the disc. With some LDs (discs without TOC), only the chapter number being played lights up. "→" lights when the number is 16 or more. In the program mode, the indicators of the programmed track/chapter numbers light. In the random play mode, the indicator of the track or chapter being played lights.



: PLAY



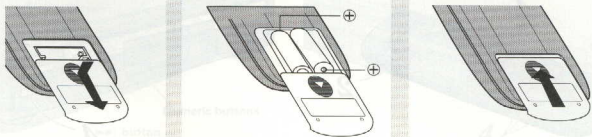
: PAUSE

• The function names are displayed during operation.

<i>OPEN</i>	: Disc table is opening.	<i>A-B</i>	: A-B repeat playback
<i>CLOSE</i>	: Disc table is closing.	<i>SIDE</i>	: Single-side repeat playback
<i>PLAY</i>	: Start of playback	<i>-OFF-</i>	: Switching power off.
<i>End</i>	: End of LD	<i>LD</i>	: LaserDisc
<i>Intro</i>	: Intro Scan	<i>CD</i>	: Compact Disc with digital audio
<i>H I - L I T E</i>	: Highlight Scan	<i>CDV</i>	: Compact Disc with Video
<i>ALL</i>	: All-side repeat playback	<i>no disc</i>	: Disc is not present.

REMOTE CONTROL UNIT

LOADING THE BATTERIES



Notes:

If the batteries are inserted backwards, there is a danger of their leaking or bursting. Be especially careful of the following:

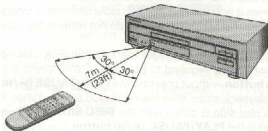
- Be sure that each battery's positive (+) and negative (-) terminals are positioned as indicated on the battery case.
- Do NOT replace just one of the batteries. When replacing, replace BOTH batteries.
- Batteries of the same size sometimes are not of the same voltage. Be sure the voltage of both batteries is the same.
- Some batteries are rechargeable and some are not. Do NOT mix the two types. Also heed to the precautions printed on the batteries.

HOW TO OPERATE

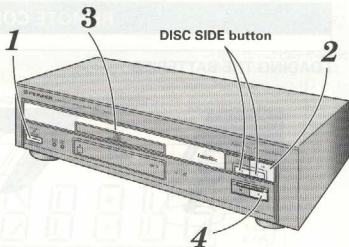
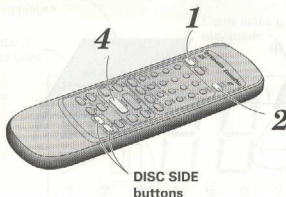
Operation of the Remote Control Unit

Point the remote control unit toward the remote control sensor located on the front of the player. The remote control unit can be operated within a distance of 7 m (23 feet) from the player and up to 30 degrees from the sensor.

- The remote control unit may operate incorrectly if the remote-control sensor is hit by strong light, such as direct sunlight or a fluorescent lamp.
- If the CONTROL IN jack on the rear panel of this unit is connected to other equipment, point the remote control unit to the sensor of that equipment. This unit cannot be controlled directly with the remote control unit (see page 11) in such a case.
- Press the POWER switch on the front of the unit or on the remote control to turn the power ON before using the remote control unit.



TO VIEW A LASERDISC

**1 Turn power ON.**

The STANDBY indicator is extinguished.

**2 Open the LD disc table.****3 Load a disc.**

Place a disc along the disc guide groove, with the label side facing up in case of a single-sided disc or with the side to be played facing up in case of a double-sided disc.

4 Start playback.

When playing side A of a two-sided LD, the player will automatically turn and play side B once side A has finished.

Caution in disc loading

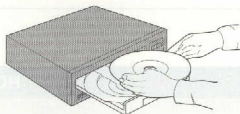
Be careful not to let the disc deviate from the guide groove on the disc table or place two discs at a time, otherwise the disc damage or malfunction may result. Also do not place other object than a disc on the disc table.

CD Single : 8cm (3in.)



CD, CDV, VIDEO Single :
12 cm (5 in.)
LD, LD Single :
20 cm (8 in.)
LD : 30 cm (12 in.)

LD disc table

**Playback by designating side A or B**

With a double-sided LD, side A in this description refers to the upper side when it is loaded on the disc table and side B refers to the down side. Remember that they do not refer to the disc sides A and B as recorded on the disc.

If the disc is placed with the label marked "SIDE A" facing upward and when it is required to play side A only, press the **DISC SIDE A button** without pressing the **PLAY/PAUSE (▶/⏸) button**; the playback stops after having played side A. When it is required to play side B only, press the **DISC SIDE B button** without pressing the **PLAY/PAUSE (▶/⏸) button**; the playback stops after having played only side B.

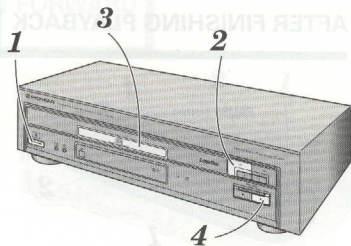
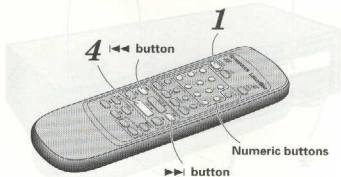
If the disc is placed with the label marked "SIDE B" facing up, pressing the **A button** plays disc side B and pressing the **B button** plays disc side A.

Display when the disc side changes

- During turning from side A to side B
- During turning from side B to side A



PLAYING BACK CDs



1 Turn power ON.

The **STANDBY** indicator is extinguished.



2 Open the CD disc table.



3 Load a disc.

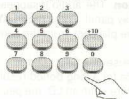
Place a disc along the disc guide groove, with the label side facing up.

4 Start playback.



To select the desired track, select it by pressing the **▶▶ button** or **◀◀ button** or by composing its number with **numeric buttons**.

Select music with the numeric buttons on the remote control unit.

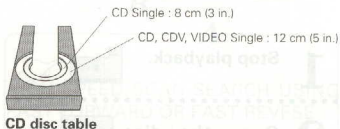


To select No. 10 or beyond:

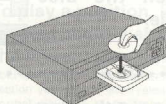
Use the **+10** and **0** buttons.

(Examples) 17: **+10**, **7**

20: **+10**, **+10**, **0**



CD disc table



Useful Function

Auto power-ON

- When it is required to open the disc table while the power is off, you do not have to press the **POWER button** but just press the **OPEN/CLOSE (▲) button** on the front panel; the power will be turned ON automatically and the disc table will open.
- When the disc has been left loaded since the last time the power was turned OFF, simply pressing the **PLAY PAUSE (▶/||) button** on the front panel turns power ON automatically and starts playback.

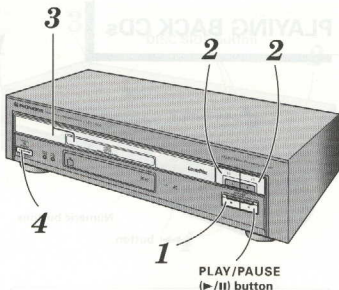
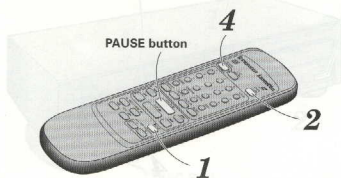
The above functions are not available with the remote control buttons.

Note

When the **OPEN/CLOSE button** is pressed after the CD has been taken out of the disc table or played, the CD disc table will open. To play an LD, press the **LD OPEN/CLOSE (▲) button** on the front panel.

- CDV playback starts with images (video part).

AFTER FINISHING PLAYBACK



PLAY/PAUSE
(▶/II) button

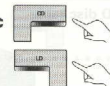
1

Stop playback.



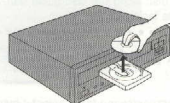
2

Open the disc table.



3

Take out the disc.



4

Turn power OFF.

The disc table closes, the power is turned OFF and the STANDBY indicator is lighted.



To let playback pause temporarily (▶/II)

Press the **PLAY/PAUSE (▶/II) button**. The audio disappears and the **II** indicator lights on the display panel. Press the **PLAY/PAUSE (▶/II) button** again to resume playback from the same position.

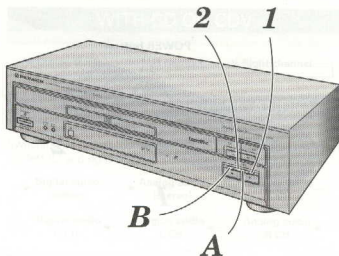
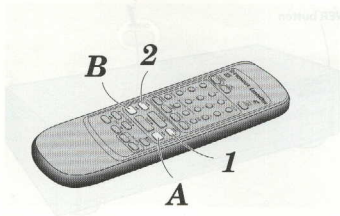
- A still image is displayed during pause of a CAV LD disc.
- Leaving the unit in the pause mode for a long period results in shortening the motor life. Therefore, with an LD, the pause mode is canceled automatically in 20 minutes after it has been started. (Pause timer)

Useful
Function

Playback of LD from the position where it was last stopped

After the playback of an LD has been stopped in the middle, it can be restarted from the position where it was stopped. For details, please read "CONTINUE PLAY FUNCTION (LAST MEMORY)" on page 18.

MOVING THE PLAY POSITION FORWARD (BACKWARD) (SKIP/SCAN)



SKIPPING CHAPTERS/TRACKS

1 To play the next chapter/track:

The same number of chapters/tracks as the times the button is pressed can be skipped.



2 To play the current track from the beginning:

Pressing the button again skips back to the beginning of the previous chapter/track.



HIGH SPEED SCAN-SEARCH USING FAST FORWARD OR FAST REVERSE

A To play a position located slightly after the current play position:

Hold down the **▶▶** button until you reach the section you desire, then release the button; normal playback starts from there; normal playback starts from there.



B To play a position located slightly before the current play position:

Hold down the **◀◀** button until you reach the section you desire, then release the button; normal playback starts from there; normal playback starts from there.



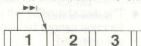
What is that

Chapter?

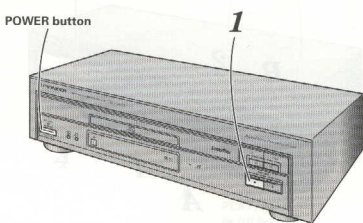
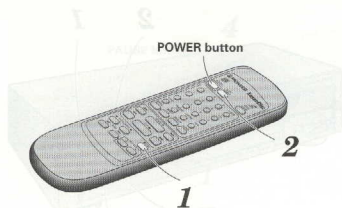
The LD is separated into some numbered sections, which are called the chapters.

With CD, the similar sections are called the tracks. The skip operation is used to move to the next tune.

- On the main unit front panel, holding a skip button depressed initiates high-speed scan in the forward or reverse direction.



CONTINUE PLAY FUNCTION (LAST MEMORY)



PLAYING THE CONTINUATION OF LD WHICH HAS BEEN STOPPED IN THE MIDDLE

1 After playing an LD till the middle, press the STOP ■ button to stop playback.

The address where playback is stopped is stored in memory and held even after the power is turned OFF.



2 When the power is OFF, turn the power ON and press the LAST MEMORY button once.



- Playback starts from slightly before the position where it was last stopped.

PLAYING THE CONTINUATION AFTER SEEING THE OUTLINE TILL THE LAST STOPPED POSITION

1 After playing an LD till the middle, press the STOP ■ button to stop playback.

The address where playback is stopped is stored in memory and held even after the power is turned OFF.



2 When the power is OFF, turn the power ON and press the LAST MEMORY button twice.

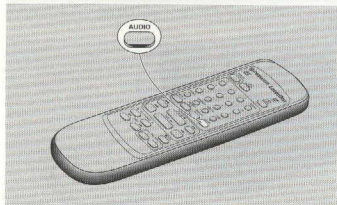


- The disc is played and fast forwarded alternately from the beginning a position slightly before the position where it was last stopped, and normal playback starts from there.

Notes:

- The Continue Play function is available only when playing an LD. It is not available in playback of CD or CDV.
- The disc should be left loaded in the unit. The Continue Play function cannot be used if the disc has been taken out of the unit.
- When a double-sided disc is stopped during playback of side B, the Continue Play function starts playback from side B.
- If the PLAY/PAUSE (▶/II) button is pressed after pressing a disc with the STOP (■) button, the disc will be played from the beginning.
- The power cord should be connected to a power outlet which is permanently supplied of power. (If it is connected to a power outlet of an amplifier, etc., the power supply may be interrupted depending on the component's condition.)

SWITCHING AUDIO



The reproduced audio is switched over every time the **AUDIO button** is pressed during playback.


The available audio functions includes:


- Listening to the analog audio of a disc with digital audio.
- Listening to the desired language of a multiplexed bilingual disc.
- Listening to karaoke instrumental of a karaoke disc.





What is that

LD with  mark

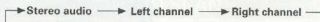
The  noise reduction system is applied to the analog audio of LD.

With LDs carrying the  mark, CX allows to reproduced analog audio with less noise.

Some of the discs carrying the  mark do not contain the recording of the codes for switching the CX system ON and OFF automatically. With such a disc, switch CX ON by pressing the **AUDIO button** of the remote control unit.

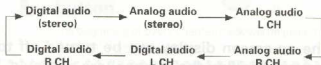
-  is a trademark of CBS. This player is in compliance with the CX extended specifications.







WITH CD OR CDV



WITH LD WITH DIGITAL AUDIO

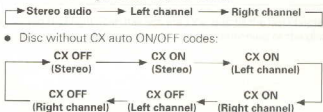
Switching between the digital and analog audio and between the left (L) and right (R) channels of stereo audio is possible.



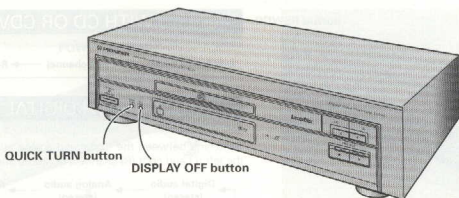
Audio	Stereo Disc	Bilingual Disc
Stereo	 Stereo	 HELLO KOKORO-CHWA MAIN audio from L CH SUB audio from R CH
Left Channel	 L CH audio from both L/R	 HELLO MAIN audio from both L/R
Right Channel	 R CH audio from both L/R	 KOKORO-CHWA SUB audio from both L/R

Notes:

- With AC-3 discs, sound is not heard when the analog R channel is selected.
- With an LD with analog audio only, the audio is switched as shown below.
- Disc containing CX auto ON/OFF codes:



MOVIE DISC ENTERTAINMENT



The on-screen display can be turned off to prevent spoiling the atmosphere of movie.

TO TURN THE DISPLAY OFF

Press the **DISPLAY OFF** button.



- The display disappears from the display panel as well as from the screen. However, whenever the player is operated with the front panel controls or remote control buttons, the activated operation mode will be displayed for about 1.5 second.
- While the display is off, the background of the screen when the disc is turned or stopped changes from blue to black.

Note:

While the display is off, the display panel shows nothing even when the power is ON. As the display off condition is held in memory even after the power is turned OFF, the display panel shows nothing the next time the power is turned ON. To display information on the display panel, press the **DISPLAY OFF** button again.

The quick turn function allows to shorten the time required for starting playback or turning the disc side.

TO SHORTEN THE PLAY START AND DISC TURNING TIME (QUICK TURN) (LD)

Press the **QUICK TURN** button.



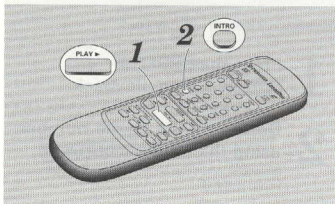
The indicator in the button lights to indicate that the quick turn function is on.

- Before starting random playback or viewing the disc contents, press the **QUICK TURN** button so that the indicator is extinguished. press the **STOP** button to stop playback, then press the **PLAY/PAUSE** button (the TOC data is read at this time).
- While the indicator is lit, the play start and disc turning time can be shortened because the TOC (Table Of Contents) data recorded on the disc is not read out. As a result, even when the LD contains the TOC data is played, the random playback, total time display, remaining time display and the elapsed time display of standard (CAV) disc are not possible.

Notes:


- When the AC cord is plugged into a power outlet and the power of the player is switched on, the quick-turn is automatically turned on and the indicator lights.
- The indicator is extinguished automatically when a CD is played. As the quick turn on/off condition is held in memory, the indicator lights again the next time an LD is loaded.
- As the quick turn on/off condition is held in memory even after the power is turned OFF, the same setting is recalled the next time the power is turned ON.


SEARCHING FOR A PARTICULAR CHAPTER/ TRACK (SCAN)



INTRO SCAN

This function plays the first 8 seconds of every chapter/track on an LD or the video part of CDV in sequence.

- 1 Press the INTRO button.**



The beginning of every chapter/track will be played for about 8 seconds each.
- 2 When the desired chapter/track is played, press the PLAY button.**



Normal playback starts from there.

- When Intro Scan has scanned the disc till the last chapter/track, normal playback starts from the beginning of the disc.

HIGHLIGHT SCAN

This function plays the 8 seconds at 1 minute after the start of every track in the audio part of CDV and CD.

- 1 Press the INTRO button.**


The section located at 1 minute after the start of every track will be played for about 8 seconds each.
- 2 When the desired chapter is played, press the PLAY button.**


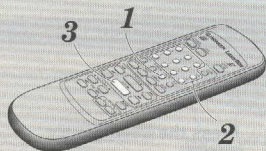
Normal playback starts from there.

- When Highlight Scan has scanned the disc till the last chapter/track, normal playback starts from the beginning of the disc.

Notes:

- With a CDV, Highlight Scan of the video part is performed first then that of the audio part occurs.
- Intro Scan is not possible with a disc which does not contain the recording of chapter numbers.
- With chapters/tracks of no more than 1 minute or with chapter/track numbers of 33 or more, Highlight Scan plays about 8 seconds from the beginning.
- Highlight scan does not play tracks shorter than one minute from CD.

SEARCHING FOR A PARTICULAR SCENE (SEARCH)



DIRECT SEARCH BASED ON CHAPTER/TRACK NUMBER

Example: To view an LD from the beginning of chapter 3



Use the +10 and 0 buttons to search a chapter/track No. 10 or more.

[Example] To search No. 17:



To search No. 30:



NORMAL SEARCH BASED ON CHAPTER NUMBER

This function is available with LDs.

It can be used during playback.

[Example] To search No. 17:



To search No. 30:

**Note:**

If a frame or time number which is not recorded on the disc is designated, the player pauses at the end of the disc.

FRAME SEARCH

This function is available with CAV LDs.

1 Press the **CHP/TM** button during playback.



2 Designate the frame number using the numeric buttons.

[Example] When the frame number of the desired scene is 13542:



3 Press the **PLAY** button.



The player pauses at the picture of the designated frame number. Press the **PLAY** button again to start normal playback from there.

TIME SEARCH

This function is available with CLV LDs.

1 Press the **CHP/TM** button during playback.



2 Designate the time number using the numeric buttons.

[Example] When the time number of the desired scene is 21 minutes 43 seconds:



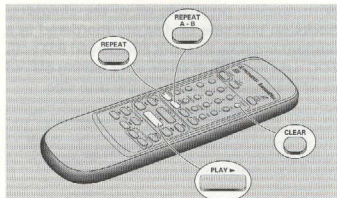
With a disc which does not contain time information in seconds, specify the time in minutes (2 digits).

3 Press the **PLAY** button.



The player restarts at the picture of the designated time number.

WATCHING/LISTENING REPEATEDLY (REPEAT PLAYBACK)



- Press the **CLEAR** button to cancel the position which has been designated.

To stop repeat playback

Press the **CLEAR** button or press the **REPEAT** button so that the REPEAT indicator is extinguished. The repeat mode is canceled but normal playback continues.

**Useful
Function**

Program repeat playback, random repeat playback

During playback, press the **REPEAT** button once. Similarly, during random playback, press the **REPEAT** button once.

- Refer to page 24 for the random playback and page 25 for the program playback.

Note:

Repeat playback of a chapter is not possible with an LD which does not contain chapter numbers. With such a disc, pressing the **REPEAT** button starts one-side repeat playback.

Repeat playback of track/chapter

Press the **REPEAT** button once during playback of the track or chapter to be repeated.



Repeat playback of one disc side

Press the **REPEAT** button twice. When the disc side has been played till the end, the play position returns to the beginning and the disc side will be played repeatedly.



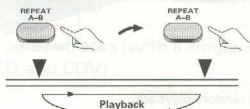
Repeat playback of two sides of disc

Press the **REPEAT** button 3 times. The disc will be played repeatedly, from side A to side B then side B to side A and so on.



Repeat playback of a designated section

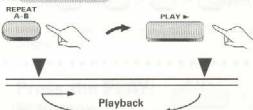
Press the **A-B REPEAT** button at the position you want to start repeating and at the position you want to end it.



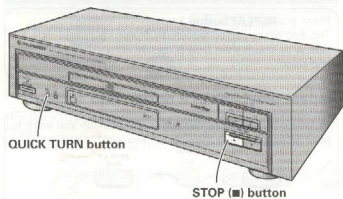
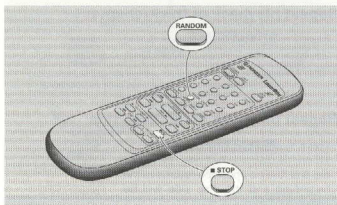
- With a CDV disc, repeat playback across the audio and video parts is not possible.
- Repeat play cannot span both sides of a two-sided LD.

Returning to the designated position

Press the **A-B REPEAT** button at the desired position. When it is required to return to the position designated above, press the **PLAY** button.



PLAYBACK IN ORDER SELECTED BY THE PLAYER (RANDOM PLAYBACK)



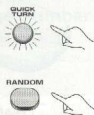
During random playback:

- Pressing the **▶▶▶ button** plays the next chapter/track randomly selected by the player.
- Pressing the **◀◀◀ button** plays the current chapter/track from the beginning again.
- Pressing the **CLEAR button** cancels random playback and starts normal playback, with which the current chapter/track and the chapters/tracks recorded after it are played in sequence.
- Pressing the **RANDOM button** again cancels the current order of chapters/tracks and restarts random playback in a new order.

With random playback, all of the chapters/ tracks on one side of disc are reordered in a random order by this unit and played (LD with TOC data and CD). It stops after having played all of the chapter/tracks on the disc side.

Ensure that the **QUICK TURN** indicator is not lit.

If it is lit, press the button to extinguish it then press the stop button (Turning off the QUICK TURN button during playback will not read the TOC data).



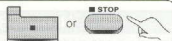
Press the **RANDOM button**.

- In case of a double-sided LD, only the side facing upward will be played in a random order.



To stop random playback

Press the **STOP button**.



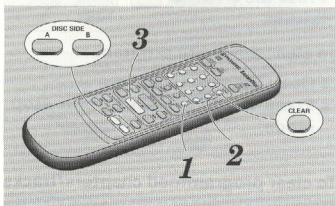
To play the side facing downward (side B) or an LD

First switch the quick turn function off, then press the **DISC SIDE B button** and press the **RANDOM button**.

Notes:

- Random playback is not possible with an LD which does not contain chapter numbers.
- Random playback is not possible while the quick turn function is on.
- With an LD without TOC, random playback is not possible. For the TOC, refer to page 31.
- Random playback across the two sides (sides A and B) is not possible.
- With an LD, chapter No. 0 is not played in random playback.
- It is not possible to perform random playback of programmed chapters/tracks.

PLAYING BACK IN DESIRED ORDER (PROGRAMMED PLAYBACK)



To program tracks (with a double-sided LD)

For example, let us program chapter No. 9 on side B, chapter No. 7 on side A and chapter No. 18 on side B.

1 Press the **PGM** button.



2 Press the **DISC SIDE B** button then press the numeric button "9".



Chapter No. 9 on side B has been programmed. Also program chapter No. 7 on side A and chapter No. 18 on side B with the same method.



3 Press the **PLAY** button.



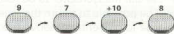
To program tracks (with a single-sided LD, CD and CDV)

For example, let us program track Nos. 9, 7 and 18 of CD in this order.

1 Press the **PGM** button.



2 Press the numeric buttons "9", "7", "+10" then "8".



Now CD track Nos. 9, 7 and 18 have been programmed.

3 Press the **PLAY** button.



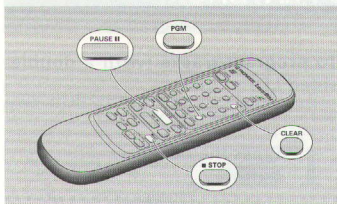
- The player stops after having played the programmed tracks.
- If you made a mistake in pressing a numeric button, press the **CLEAR** button then press the correct **numeric** button.
- Program playback is not possible with a disc which does not contain chapter numbers.

To check the programmed tracks

When the **PGM** button is pressed during or after program playback, the programmed contents are displayed on the screen. The program content display disappears when the **PGM** button is pressed again.

- If a chapter which does not recorded in the disc is programmed, program playback stops in the turn of the chapter.
- The picture from a non-programmed chapter may be seen during chapter change, but this is not a malfunction.

PLAYING BACK IN DESIRED ORDER (PROGRAMMED PLAYBACK)



To stop program playback

Press the **STOP** button.



To clear the entire program

- Open the disc table.
- Press the **CLEAR** button in stop mode.



To clear programmed chapters/tracks

1 Press the **PGM** button.

2 Press the **CLEAR** button.

Each press of the button clears the currently last chapter/track in the program.



- It is not possible to clear the chapter/track being played and the chapters/tracks located programmed them.

Useful Function

Programming of pause

A pause can also be programmed by pressing the **PAUSE (II) button** in place of a numeric button.

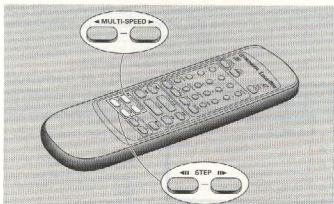
The programming of pause is very convenient when recording the disc.

- When recording the disc on two sides of a tape, program a pause after the last track/chapter to be recorded on one side of tape; it will be possible to return the tape recording side in the pause mode to prevent erroneous recording.
- In the pause mode, it is also possible to record narration or leave a non-recorded blank (which is necessary for search operation, etc.). To restart recording, press the **PAUSE (II) button** in the pause mode to resume program playback.
- It is not possible to program a pause in the last step of programming.

Display of programmed pause

The programmed pause is displayed with "PAUSE" on the screen and "II" on the display panel.

TRICK PLAYBACK (CAV discs only)



STILL FRAME/FRAME-BY-FRAME ADVANCE

Still frame playback – Displaying a still image

Press the **◀II** or **II▶** **STEP** button



- A still frame image can also be displayed by pressing the **PAUSE (II)** button.

Frame-by-frame advance – Playing video frame by frame

While a still frame is displayed, press the **◀II** or **II▶** **STEP** button.



Each press reverses frame by one frame.



Each press advances frame by one frame.



Hold the button depressed for continuous frame advance.

PLAYBACK AT VARIOUS SPEEDS (MULTI-SPEED PLAYBACK)

To vary the playback speed or direction

Press the **◀** or **▶** **MULTI-SPEED** buttons.

For reverse-direction play



For forward-direction play

Press during playback starts playback at a 1/8 speed. Each subsequent press varies the playback speed as shown below.

Speed Display	Speed
↓	
1/8	1/8 the normal speed
1/2	1/2 the normal speed
x.2	Twice the normal speed
1/2	1/2 the normal speed
1/8	1/8 the normal speed
1/30	1/30 the normal speed

To return to normal playback

Press the **PLAY/PAUSE (▶/II)** button.

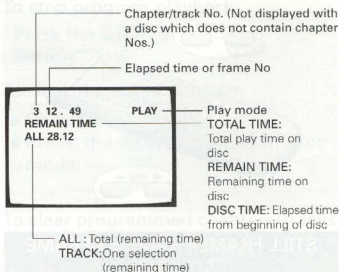
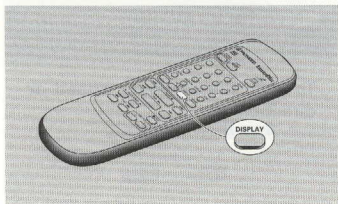
If still frame image is displayed automatically:

Some discs contain the recording of special signals called picture stop codes. To continue playback even when a picture containing a picture stop code is encountered, activate the picture stop cancellation (PSC) function by pressing and holding the **PLAY/PAUSE (▶/II)** button on the front panel for more than 2 seconds after having loaded the disc. "PSC ON" will be displayed on the screen for a few seconds. When the **PLAY/PAUSE (▶/II)** button is pressed and held for more than 2 seconds again, "PSC OFF" is displayed on the screen for a few seconds and the initial condition is recalled.

Notes:

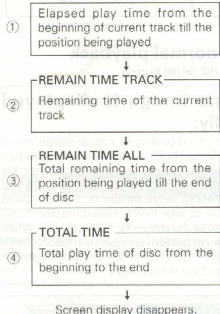
- Sound cannot be heard during still frame or multi-speed playback.
- With CLV discs, Still Frame, Frame-by-Frame advance and Multi speed function cannot be carried out. If the **STEP** buttons or the **MULTI-SPEED** buttons is pressed during playback of a CLV disc, warning message "CLV" appears on the monitor screen for about 2 seconds.

DISPLAY INFORMATION



Switch the quick turn function off (so that the indicator is extinguished), start playback, then press the DISPLAY button. Each press changes the displayed information as shown below.

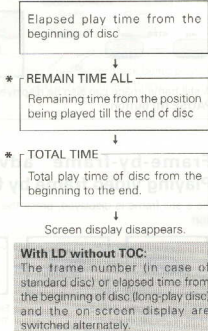
With CDV or CD



LD with TOC (CAV)



LD with TOC (CLV)



- With a CDV, the total play time of the part being played (audio or video part) is displayed.

Notes:

- If the on-screen display has been left displayed for long hours (about 80 minutes) without performing any operation, it disappears automatically. It reappears when any button is pressed.
- Even with an LD with TOC, the data marked * are not displayed when the quick turn function is on. To view the data marked *, switch the quick turn function off, then stop playback temporarily and restart playback again.

TROUBLESHOOTING

Incorrect operations are often mistaken for 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, such as the TV set and stereo system, as well as 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. • The disc is not placed properly on the disc table. • Condensation has formed inside the player. 	p. 32 p. 14, 15 p. 5
Remote control	2. Remote-control operation does not work. 3. TV set, etc. operates improperly.	<ul style="list-style-type: none"> • The CONTROL IN jacks on the rear panel are in use. • The remote control unit is too far from the player, or at too oblique an angle from the sensor. • The batteries are discharged. • Using the remote control unit may cause improper operation with some TV sets having the wireless remote-control function. 	p. 10 p. 13 p. 13
Audio	4. Audio is distorted or not output.	<ul style="list-style-type: none"> • The plugs are not inserted securely into the jacks or are disconnected. • The plugs and jacks are dirty. • The player is in Pause mode. • The connection between the player and stereo amplifier is incorrect. • Operation of the stereo amplifier is incorrect. (Refer to the operating instructions of the amplifier.) • The audio output is connected to the PHONO IN jack of the amplifier. 	p. 9 p. 10

LD

	Symptom	Possible Causes	Reference Page
Video, picture quality	5. No picture.	<ul style="list-style-type: none"> • The VHF antenna is not connected to the modulator. • A cable transmitting both VHF and UHF is connected to the modulator. 	p. 8, 9
	6. No picture, the picture quality is poor, or signal noise is causing a poor picture.	<ul style="list-style-type: none"> • The picture selection (Video 1, Video 2, etc.) is wrong. • The power of the TV set is turned off. • The disc is deformed (warped, etc.). • The plugs are not inserted securely into the jacks or are disconnected. 	p. 7
	7. Part of the still picture shakes.	<ul style="list-style-type: none"> • Even with standard discs, part of the still picture may shake if it is part of a fast-action scene. 	
Audio (LD)	8. Audio sound is undulating. 9. Audio is not output.	<ul style="list-style-type: none"> • A disc without the CX mark is played while the CX system is ON. • No audio will be output during Multispeed, Still-Picture or Frame Playback. • Digital is often recorded with a higher audio volume than analog. This is not a malfunction. 	p. 19 p. 27
	10. Analog and digital will often differ in output sound volume.		
Skip, search	11. Skip, programming and search operations do not function properly.	<ul style="list-style-type: none"> • A disc without chapter numbers is being played. (The functions using chapters will not work with discs without chapter numbers.) 	
	12. The search takes a long time (more than 40 seconds).	<ul style="list-style-type: none"> • The disc is dirty. 	p. 32
	13. Starting takes more time with some discs.	<ul style="list-style-type: none"> • The system may read the data incorrectly. (This is not a malfunction.) 	

TROUBLESHOOTING

CD

	Symptom	Possible Causes	Reference Page
Skip, search	14. A scene different from that specified is played back.	<ul style="list-style-type: none"> The system may read the data incorrectly. (This is not a malfunction.) 	
Operation (CD)	15. Playback stops immediately after starting.	<ul style="list-style-type: none"> The disc is dirty. The disc is upside-down. The disc is improperly placed on the disc table. 	<p>p. 32</p> <p>p. 15</p> <p>p. 15</p>

NOTE:

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.

Self-diagnostic function

This unit has a self-diagnostic function and displays the results.

If the system detects an abnormality during operation, the following display (service number) will appear automatically on the display of the player as well as the TV screen. If such a display appears, follow the "Remedy" below.

Display on the player

Service number

U1

TV screen

Service number

U1

Service Number	Condition of the player	Remedy
U1 U2	The disc is set incorrectly. If the disc is set correctly, then the disc may be dirty.	<ul style="list-style-type: none"> Align the disc with the disc guide on the table. Clean the disc with a soft cloth. Open the disc table, then press the PLAY/PAUSE (▶/II) button again.
P5 F2 L3 E3 E4 E9	Two discs may be loaded on the disc table. If only one disc is loaded, then the disc may be dirty. (The number displayed after P, F, L or E differs according to the condition of the player.)	<ul style="list-style-type: none"> Load only one disc on the disc table. Clean the disc with a soft cloth. Open the disc table, then press the PLAY/PAUSE (▶/II) button again. If the same service number is displayed again, then the player may be in abnormal condition. When requesting service, please indicate the service number shown on the display of the player or the TV screen. (For example, if "E4" is displayed, indicate as "service number E4.")
H0 H1 H2	The player may be in abnormal condition.	<ul style="list-style-type: none"> When requesting service, please indicate the service number shown on the display of the player or the TV screen. (For example, if "H1" is displayed, indicate as "service number H1.")

GLOSSARY

LD (LaserDisc)

Depending on the recording system of the signal, there are two types of LDs—standard play discs (CAV) and extended play discs (CLV).

CAV

"Standard Play Disc CAV" or "Standard Play" is indicated on the disc jacket or label.

CLV

"Extended Play Disc CLV" or "Extended Play" is indicated on the disc jacket or label.

LDs with digital audio

This type of LD contains a digital audio signal, as well as an analog audio signal. Both a high-quality picture and digital sound can be enjoyed at the same time.

digital or **digital**
AUDIO or **SOUND**

Multiaudio disc with digital audio

Different content is recorded for digital audio and analog audio, respectively.

digital and **MULTIAUDIO** or **digital** **MULTI AUDIO**
AUDIO or **SOUND**

You can switch between digital audio and analog audio.

DOLBY SURROUND AC-3 DISC

This type of disc contains digital data of the 6-channel audio of the surround system for actual movie theaters (Surround Digital) which has been compressed with AC-3 and recorded in one of the conventional analog channels (R channel).



To enjoy the full audio potential of a Dolby Surround AC-3 disc, connect the AC-3 RF output terminal of this unit to the AC-3 RF input terminal of an amplifier or surround processor.

CDV (CD with video)

- This type of CD is provided with a video part. Of 25 minutes of CDV playback time, 20 minutes are used for recording digital audio, just as with normal CDs (audio part). The remaining 5 minutes are used for recording video and digital audio (video part).



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, they can be used to search for desired sections (Chapter Search).

- Some discs have no chapter number recorded.

Frame number

Frame numbers are the numbers assigned to each frame of a motion picture on a CAV standard play disc. Frame numbers can be used to search for desired scenes (Frame Search).

Time number

Time numbers indicate the time elapsed from the beginning of a CLV extended play disc or CAV standard play disc with a TOC* 1. 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 and video parts of a CDV disc. Track numbers can be used to search for desired tracks (Track Search).

TOC

Every CD/CDV disc is provided with a section called a 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 LDs are not provided with a TOC section.
- LDs with a TOC and CDVs also belong to the "video disc system with optical digital audio."

CLEANING

For Proper and Long Use

● Cleaning the player

Wipe the surface of the unit with a soft, dry cloth. To remove heavy dirt, soak a soft cloth in neutral detergent diluted five or six times with water, wring out the cloth well, and wipe off the dirt. After that, wipe the unit with a dry cloth. Do NOT use benzine, thinner or alcohol, as they will spoil the surface finish. If a chemical cloth is used, read the precautions supplied with the product.

● LD/CD lens cleaners

Usually the pickup lenses are not soiled. If a malfunction has occurred owing to dust or other causes during use, read the section explaining after-sales service and contact your dealer for repair. Some be careful in selecting the lens cleaner, for some lens cleaners could damage the lens or make it impossible to eject the disc.

● Cleaning the discs

To obtain better picture and sound quality, wipe off any dirt from the disc surface with a soft cloth. Always wipe toward the outside of the disc. Do NOT wipe along the circumference as used to be done with conventional records.

- Do NOT use record cleaner, benzine, thinner, electrostatic protector or other similar chemicals.
- To remove heavy dirt, use the optional LD&CD Soft Cleaner Set (JV-D11).



Wipe toward the outside of the disc.

SPECIFICATIONS

General

System	LaserVision Disc system and Compact Disc digital audio system
Laser	Semiconductor laser: wavelength 780 nm
Power requirements:	AC 120 V, 60 Hz
Power consumption	29 W
Weight	6.4 kg (14lb 12 oz)
Dimensions	420 (W) x 405 (D) x 132 (H) mm 16-9/16 (W) x 15-15/16 (D) x 5-3/16 (H) in. (Not including protruding cables, etc.)
Operating temperature	+5°C to +35°C (+41°F to +95°F)
Operating humidity	5% to 85% (no condensation)

Video Output (2 pairs)

Output level	1 Vp-p (75Ω when loaded, synchronous negative)
Jacks	RCA jacks

Audio Output (2 pairs)

Output level	200 mVrms (1 kHz, 40%) During analog audio output
.....	200 mVrms (1 kHz, -20 dB) During digital audio output
Number of channels	2
Jacks	RCA jacks

Digital audio characteristics

Frequency response	4 Hz to 20 kHz
S/N ratio	102 dB (EIAJ)
Wow and flutter	Limit of measurement (±0.001% V. PEAK) or lower (EIAJ)

Specifications for LDs conforming to EIAJ.

Other Terminals

CONTROL IN	Minijack (3.5ø)
CONTROL OUT	Minijack (3.5ø)
AC-3-RF OUTPUT	RCA jack
Optical digital output	Optical digital jack
VHF adapter	Both RCA jacks with DC jack

Accessories

Remote control unit	1
AA/16F dry cell batteries	2
Audio cord	1
Video cord	1
Power cord	1
Operating Instructions	1
Warranty card	1

NOTE:

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

Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

1 - 8 0 0 - 4 2 1 - 1 4 0 4

Please do not ship your product to Pioneer without first calling the Customer Service Department at the above listed number for assistance.

PIONEER ELECTRONICS SERVICE, INC.
CUSTOMER SUPPORT DIVISION
P.O. BOX 1760, LONG BEACH,
CA 90801-1760, U.S.A.

For warranty information please see the Limited Warranty sheet included with your product.

COOLBY 17 PLAYER

CLD-D406

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