

Operating Instructions

LaserKaraoke

COMPACT
disc
DIGITAL AUDIO

L
LASER DISC

- This player does not apply to business use, and CD-ROM/CD graphic discs cannot be played with this player.

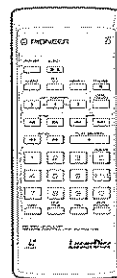
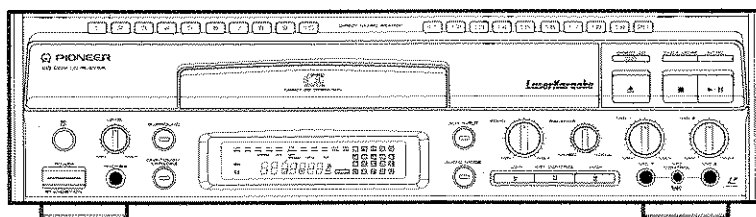
CD CDV LD PLAYER

CLD-1720K CLD-V740

LaserDisc

NTSC

The function of both units, CLD-1720K and CLD-V740 are identical.



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 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.

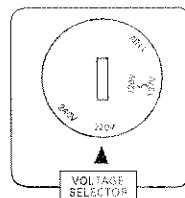
ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. U.S., Canadian, European, U.K., and Australian models are not provided with this switch.

The line voltage selector switch is located on the rear panel of this player. Before your player is shipped from the factory, the switch is set to the power requirements of the player's destination. Check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows:

Use a medium-sized (flat blade) screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it to set the player to the power voltage of your area.



Set the selector so that arrow points to power voltage of your area (Figure shows arrow pointing to 220 volts.)

CAUTION: Be sure to use the shielded cables when connecting this equipment to other devices.

PIONEER
The Art of Entertainment

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.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS - All the safety and operating instructions should be read before the appliance is operated.

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

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

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

CLEANING - Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

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

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

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

CART - An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



POLARIZATION - This video product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power 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.

LIGHTNING - For added protection for this video product receiver 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 video 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 and extension cords as this can result in the risk of fire or electric shock.

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

SERVICING - Do not attempt to service this video 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 video 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 video product.
- If the video product has been exposed to rain or water.
- If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
- If the video product has been dropped or the cabinet has been damaged.
- When the video 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 having 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 video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

OUTDOOR ANTENNA GROUNDING - If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

In the U.S.A., section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

See Fig. A.

NEC - NATIONAL ELECTRIC CODE

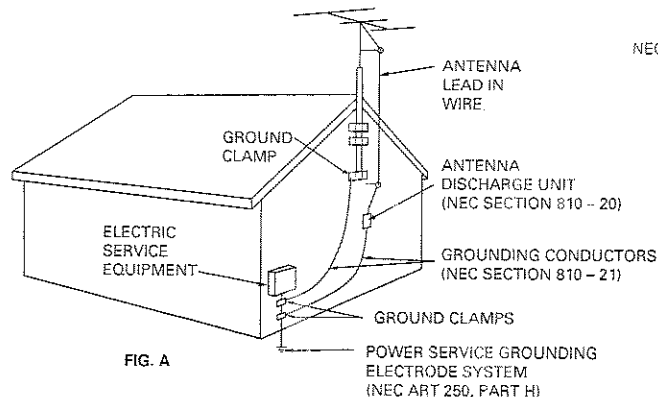


FIG. A

VENTILATION - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating. These openings must not be blocked or covered. They should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video 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 video 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 appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

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. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

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 digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Information to User

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

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.

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.



- 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)**



(3-inch Compact Disc)



** Digital Audio with Multi Audio Discs (CD VIDEO LD) and a CDV (CD Video CDV) are referred to as CD Video discs. CD Video discs 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.

Disc's sizes are shown by inch in these operating instructions.
12 inch is equal to 3 cm, 8 inch is 20 cm, 5 inch is 12 cm, and 3 inch is 8 cm.

Only one disc can be loaded at any one time. Loading a LaserVision Disc, a Compact Disc, a 3" Compact Disc or a Compact Disc with Video on top of one another may result in breakdown, or in scratching of the discs. Please only load one disc at a time.

This player is to be used exclusively with the NTSC color system. Please use NTSC LaserVision Disc or NTSC Compact Disc with Video only. PAL and SECAM system discs cannot be used with this player.

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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.
- When using the player with a stereo system, your speakers should be placed away from your television (or TV monitor).
- 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.

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.

INSTALL THE PLAYER IN A WELL VENTILATED PLACE AWAY FROM HEAT AND HUMIDITY

Do not install the player in a location subject to direct sunlight, or near a stove or radiator etc. This could adversely affect the cabinet and internal components. Also avoid installing the player in a humid or dusty location. This could result in a malfunction or accident. Do not install near a cookstove where the player could be affected by smoke, steam, or heat.

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.

CAUTIONS FOR AUTOMATIC LOADING OPERATIONS

Since this player has an automatic loading construction, use the button on the player or the remote control unit for opening and closing of the disc table. To avoid damage, be careful not to apply any force to the moving disc table.

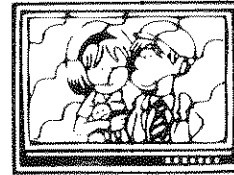
CAUTION

Since the built-in disc-drive motor continues rotating even when the player is in pause mode, do not leave the player in pause mode for an extended period of time. This will reduce the motor's service life.

In the case of the Karaoke player which automatically enters pause mode after a track is played, be sure to press the STOP button when the player is not to be used for an extended period of time.

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.



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.

The same, symptoms of condensation may be caused during 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 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 once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CLEANING CARE

Use a soft, dry cloth for cleaning. For stubborn dirt, soak the cloth in a solution of household detergent diluted using 1 part detergent to five or six parts water; 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 lightning, static electricity, or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

FEATURES AND FUNCTIONS OF THE PLAYER

Rich Variety of Karaoke Functions

Direct Selection Function Enables You to Directly Select the Song You Wish to Sing

Using the DIRECT MUSIC SEARCHs on the front panel, you can select any song up to the 20th song by simply pressing a single button.

Two Independent Microphone Systems Enable You to Separately Adjust the Sound Volume for Each Mike

Since two independent microphone systems are provided, you can independently adjust the level for each microphone.

Surround Function Creates a Live Atmosphere

Three modes are available: Theater, Karaoke and Music. Select the mode which best suits the atmosphere of the song or your mood. This surround function uses advanced digital technology based on a DSP (digital signal processor). The audio signal is processed digitally for accurate, high-quality sound field reproduction.

One-Touch Karaoke Function Allows You to Enjoy Karaoke Using Ordinary Music Discs

Press ONE-TOUCH KARAOKE and the original vocal sound of an ordinary music disc will be played at low volume, enabling you to use the disc as a karaoke disc.

Key Control Function Changes the Pitch of the Instrumental Part to Match Your Voice

By pressing the KEY CONTROL buttons, you can change the pitch within an 11-step range.

Once More Function Enables You to Quickly Repeat the Section You Just Sang

If you press ONCE MORE once, playback returns to a point approximately 5 seconds before the current location in the song.

One-Song Pause Function

Playback automatically pauses after one song directly selected, is played.

Intro Scan

The beginning of each chapter/track is played for about 10 seconds.

Performance of Karaoke Birds

When karaoke is stopped or paused, karaoke birds appear on the screen to provide us the enjoyment.

Auxiliary input function

When other audio device is connected to the AUX input jacks of the player, you can apply the karaoke sound effect of the player to the sound of the connected device.

Playback Functions

Program Playback

Up to 24 chapters/tracks can be selected from a disc and played in any desired order.

Repeat Playback

Three repeat modes - 1-chapter/track Repeat, One-side Repeat and Program Repeat - are available.

LD (LaserVision Disc) Playback Functions

Still Frame Playback (CAV discs only)

Still frame playback and Frame Advance Playback (forward/reverse) are also available.

Time/Frame Search

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

CD (Compact Disc)/CDV (Compact Disc with Video) Playback functions

Direct CD function

When the DIRECT CD button on the front panel is pressed (the button is illuminated), the player enters the direct CD mode and more pure sound can be reproduced. The player opens and closes only the CD disc table as a general CD player.

ABS Time (elapsed play time from the beginning of the disc) Search

Any desired point can be searched for by specifying the elapsed time from the beginning of the disc.

* The video part (the section of the disc containing both video and audio) is played first.

Video Part:

The same functions available for LD (CLV) playback can be used.

Audio Part:

The same functions available for CD playback, except for ABS time search function can be used.

Other Features

Last Memory Function

With this function, if you turn the power switch off during playback of an LD, a playback position slightly before of the last frame to be played is stored in memory (last memory). When the power is turned back on, playback begins from the memorized position by pressing ►/II.

High-Speed Pulse Flow D/A Converter

Pursuing crystal clear sound to match the laser picture, this unit adopts the high-speed pulse flow D/A converter, previously found only in top-of-the-line component CD players. The result: outstanding digital audio output with high S/N ratio and low distortion.

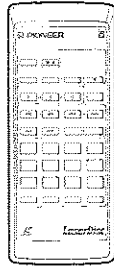
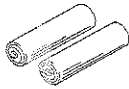
Compatibility with Many Disc Types and Sizes

In addition to conventional LDs (12-inch, 8-inch), CDs (5-inch), and CDV discs (5-inch), the player can play thin-type 8-inch LDs and 3-inch CD singles without an adaptor.

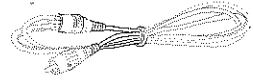
ACCESSORIES

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

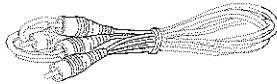
- Remote control unit
- Size "AAA" (IEC R03) dry cell battery x 2



- Video cord
(Pin plug ↔ Pin plug)
Use to connect the player to a color monitor etc.



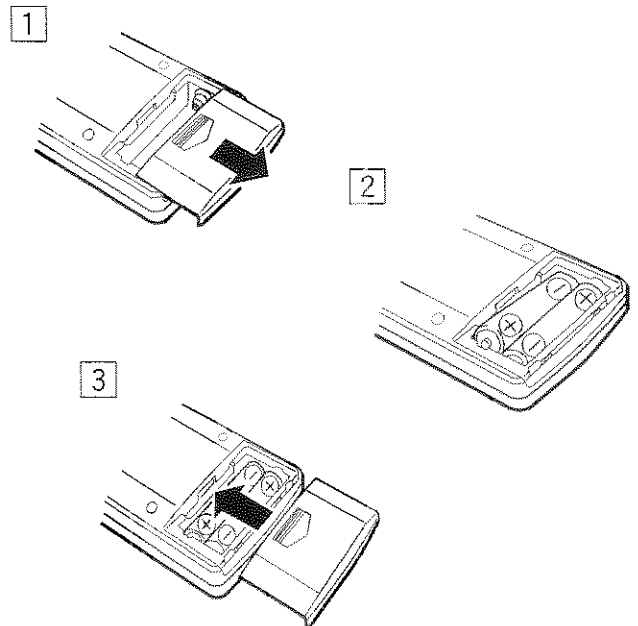
- Audio cord
(Pin plug x 2 ↔ Pin plug x 2)
Use to connect the player to a stereo amplifier etc.



- Operating instructions
- Warranty card

INSERTING BATTERIES INTO THE REMOTE CONTROL UNIT

- 1 Open the battery compartment cover on the back of the remote control unit. The cover should open easily if you press on it with your thumb while sliding it in the direction of the arrow.
- 2 Take out the two accessory size "AAA" (IEC R03) dry cell batteries, and insert them* into the battery compartment in accordance with the display (⊕, ⊖) inside the compartment.
- 3 Close the cover of the battery case.



Incorrect use of batteries may cause leakage or rupture.







Always be sure to follow these guidelines:



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


TYPES OF DISCS THAT CAN BE PLAYED WITH THIS UNIT

This unit is a CD VIDEO SYSTEM (*1) compatible player which can play CDs, CDV discs, and LDs. The five disc types listed in the table below can be played with this unit.

- The marks shown in the left column are printed on the labels and jackets of the corresponding discs.

Mark	Disc	Size	Number of recorded sides	Audio recording system	Video recording system	Other
	CD (Compact Disc) Single	3-inch	One side	Digital (20 minutes max.)		TOC (*2)
	CD (Compact Disc)	5-inch	One side	Digital (74 minutes max.)		TOC
	CDV (CD with Video)	5-inch	One side	Digital (20 minutes max./ 5 minutes max.)	CLV (*3) (5 minutes max.)	TOC *
	CDV VIDEO SINGLE VIDEO SINGLE DISC 	5-inch	One side	Digital (5 minutes max.)	CLV (*3) (5 minutes max.)	TOC *
	CD VIDEO LD (*4)	12-inch, 8-inch	Two sides, one side	Digital/analog	CAV (*5), CLV	TOC **
	LD (LASERDISC/ LaserVision Disc)	12-inch, 8-inch	Two sides, one side	Digital/analog (*6) or analog only	CAV, CLV	

* There are some discs marked with the  mark instead of the  mark.

** There are some discs without the  mark.

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 (standard play) 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 (extended play) 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 (*2)

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 also provided with a TOC section.

TYPES OF DISCS THAT CAN BE PLAYED WITH THIS UNIT

CD VIDEO SYSTEM (*1)

The CD VIDEO SYSTEM is the standard name for the "optical video disc with digital audio" system that encompasses both LDs and CDV discs.

The following mark is the standard mark for the CD VIDEO SYSTEM and is found on all players and discs which conform to the CD VIDEO SYSTEM format.

The following systems are included in the CD VIDEO SYSTEM:



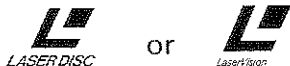
- CDV (CD VIDEO CDV) discs
- LaserVision Discs (CD VIDEO LDs) containing digital sound with sub-codes
- Compatible players which can play CDs and CDV discs
- Compatible players which can play CDs, CDV discs, and LDs

CD VIDEO LDs (*4)

A CD VIDEO LD is an LD with digital audio which is encoded with sub-codes (data such as TOC and track number data, excluding audio and video signals).

LDs (LASERDISCS)

With this unit, only play LaserDiscs which bear the following mark.



This mark is the standard mark for LaserDiscs.

Players and discs which bear the LaserVision mark are mutually compatible as long as they conform to the same television system.

Two types of standard LaserDisc are available — standard play (CAV) (*5) discs and extended play (CLV) (*3) discs — which differ with respect to their signal recording systems.

CAV (*5) DISCS

The jackets and labels of these discs are marked with a "Standard Play Disc CAV" or "Standard Play" indication.

Frames are recorded on these discs at a ratio of one frame per disc revolution, and the discs are played at a fixed rotational speed (CAV = Constant Angular Velocity) of 1,800 rpm. This system is well suited to special playback modes such as still frame playback and multi-speed playback. One side of a CAV disc can have a playback time of up to 30 minutes (for a 12-inch disc), which is equivalent to 54,000 frames. Each frame — from frame 1 to frame 54,000 — is encoded with its own frame number.

* Playback time varies according to the contents of the disc.

NOTE:

This unit cannot perform multi-speed playback even with Standard Play Discs.

CLV (*3) DISCS

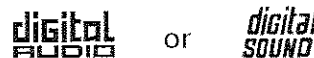
The jackets and labels of these discs are marked with a "Extended Play Disc CLV" or "Extended Play" indication.

Signals are recorded on these discs at a constant linear velocity (CLV), and the rotational speed during playback varies from 1,800 rpm for the innermost track to 600 rpm for the outermost track. As a result, one side of a CLV disc can have a playback time of up to 60 minutes (for a 12-inch disc), which is twice as long as a standard play (CAV) disc. CLV discs are encoded with time numbers which correspond to the elapsed play time from the beginning of the disc.

* Playback time varies according to the contents of the disc.

LASERVISION DISCS WITH DIGITAL AUDIO (*6)

The jackets and labels of these discs bear the following mark.



These are LaserDiscs which contain digital audio signals in addition to conventional analog audio signals. This feature allows the high image quality of LaserDiscs to be enjoyed together with the superior quality of digital audio. The digital and analog audio signals are recorded on the disc using different frequency bands.

LASERVISION MULTI AUDIO DISCS WITH DIGITAL AUDIO

The jackets and labels of these discs bear the following mark.



These are LaserDiscs in which the recorded digital and analog audio signals differ in content. This allows the user to enjoy two different audio soundtracks by switching between the digital and analog audio.

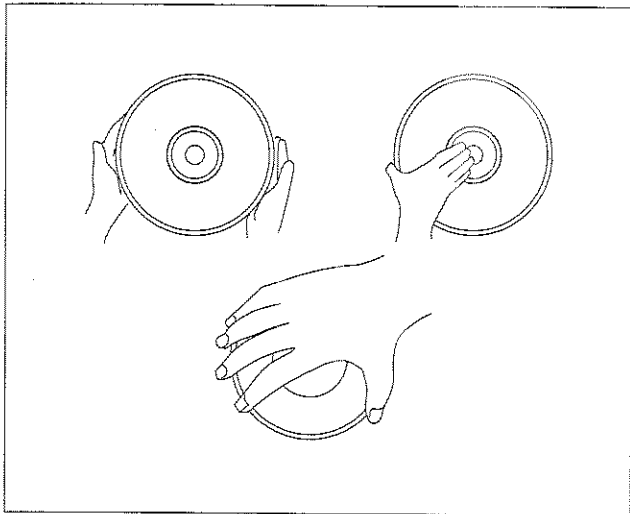
CDV (COMPACT DISC WITH VIDEO) DISCS

These are compact discs which also contain video signals. Of the total 25-minute playback time of a CDV disc, 20 minutes is encoded with conventional CD digital audio signals (the "audio part"). The remaining 5 minutes is encoded with both video and digital audio signals (the "video part").

CARE OF DISCS

How to hold discs

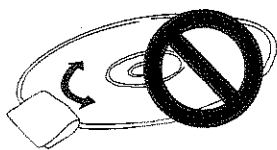
When loading or removing discs, try not to touch their playing surfaces.



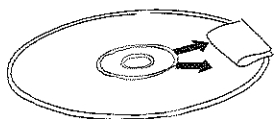
Cleaning

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

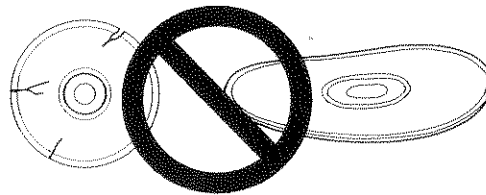


Gently wipe from the inside toward the outer edge.

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

NEVER PLAY CRACKED OR WARPED DISCS.

■ The disc revolves on 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.



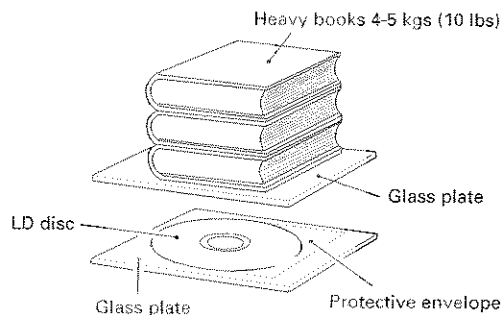
After using discs, store them upright

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 plates of glass. Then place heavy books on top of the plates so that approximately 4 to 5 kgs (10 lbs) is applied. Leave the disc like this for a day or so. This may correct the warp.

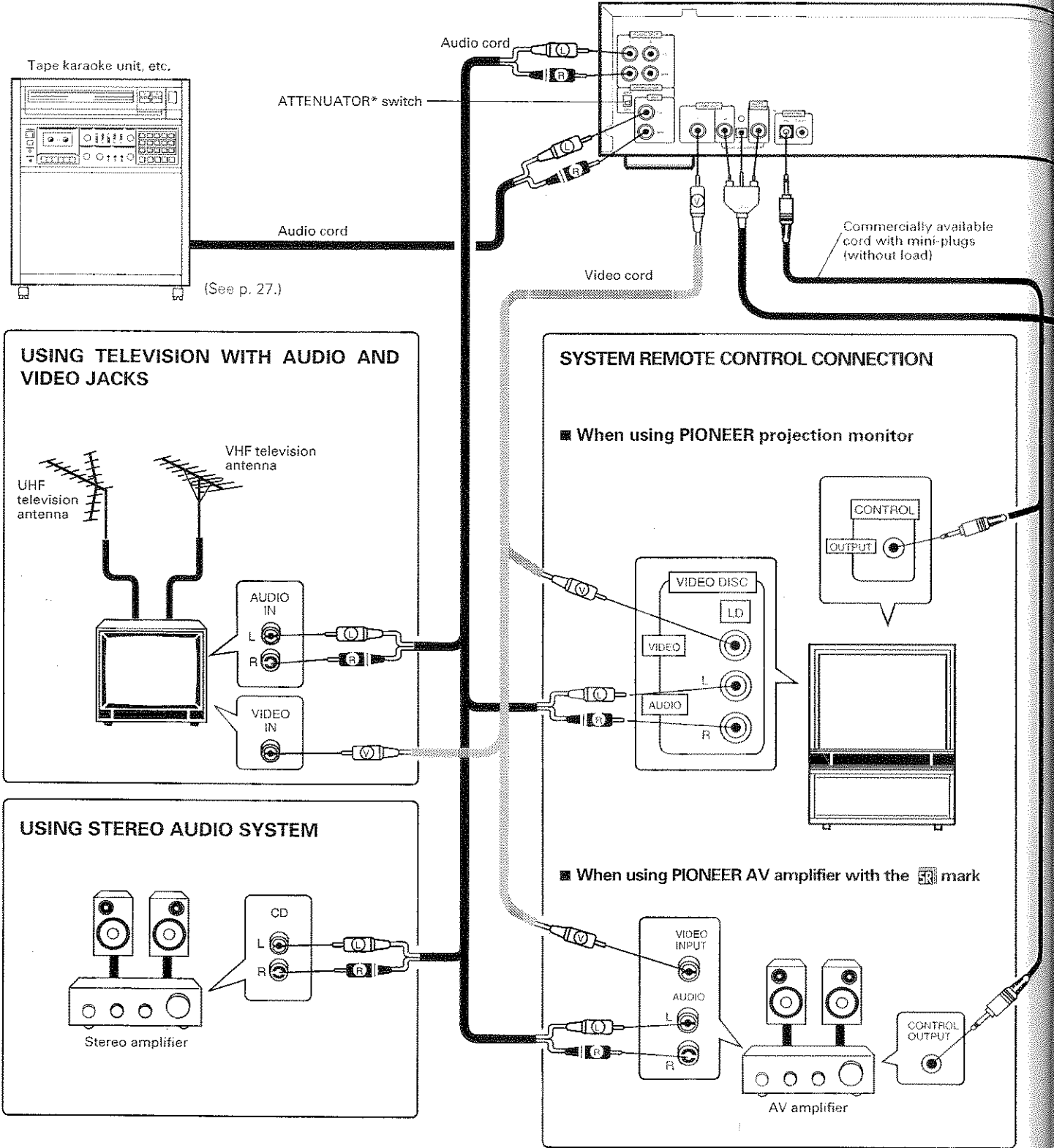


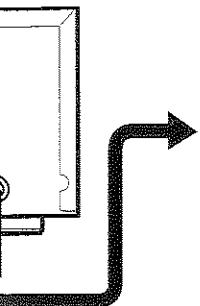
CAUTION WHEN USING THE DISC

All rights reserved.

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

CONNECTIONS





Plug the power cords into 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.

USING TELEVISION WITH AUDIO AND VIDEO JACKS

Monitor television connections

Connect the VIDEO OUT jack of the player to the video input jack of the monitor television.

- The television speakers can 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 LaserDiscs. Do not change the television antenna and VCR connections.

ATTENUATOR switch (*)

When the television speakers are used, the sound may be distorted. In this case, set ATTENUATOR to ON to reduce the distortion.

Stereo amplifier connections

Connect the AUDIO OUT jacks to the stereo amplifier AUX, CD, LD, VDP or other jacks.

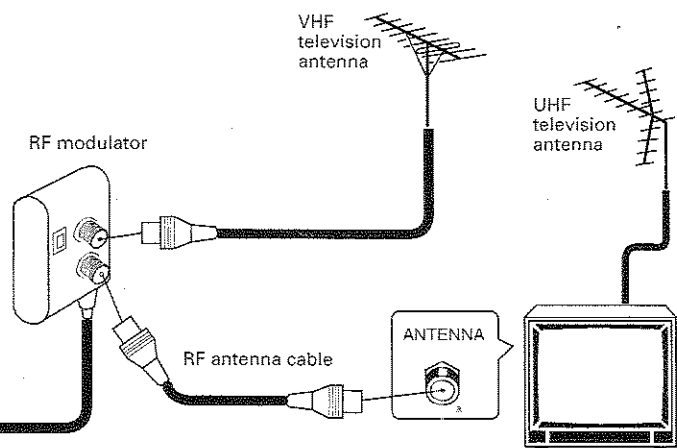
- Do not connect these jacks to your amplifier PHONO input jacks.

Power cord connections

Connect the power cord to an AC wall outlet after connecting all components.

RF modulator JA-RF3L (Optional RF modulator is sold in the U.S. and Canada only.)

USING TELEVISION WITHOUT AUDIO AND VIDEO JACKS



1. Detach the antenna cable from the antenna terminal of your TV set, and connect the cable to the IN terminal of the RF modulator.
2. Connect the OUT terminal of the RF modulator to the antenna terminal of your TV set.
3. Connect the socket (3-pin) of the RF modulator to the VHF ADAPTER jacks.

NOTE:
 Push the plug in firmly. If the plug is not properly inserted, it may result in snow on the screen or noise.

When the sound from a LaserDisc or Compact Disc is output from a television speaker it becomes monaural sound. (This is the same as stereo television).

NOTES:

- Stripe patterns may appear when a LaserDisc is played on a television. Move the antenna cable away from the power cord to avoid this.
- Be sure to turn off the power of this player when you watch a TV broadcast.
- When the television speakers are used, the sound may be distorted. In this case, set ATTENUATOR to ON to reduce the distortion.
- With some televisions, when CD is played in Direct CD mode (→ p.36), no sound will be heard. Therefore, when using television speakers, turn off DIRECT CD.

CONNECTIONS

SYSTEM REMOTE CONTROL CONNECTION

WHEN COMBINED WITH OPTIONAL PIONEER PROJECTION MONITOR (or COMPONENT DISPLAY)

Connect the VIDEO OUT jack of the player to the video input jack of the projection monitor (or component display), and connect the AUDIO OUT jacks of the player to the audio input jacks of the projection monitor (or component display).

System Control

By connecting the CONTROL IN jack of the player to the remote jack of the projection monitor (or component display), the system can be controlled by the remote control unit of the player at the remote control sensor of the projection monitor (or component display).


- Use a commercially available cord with mini-plugs (without load) for the connection.

Please also refer to the operating instructions for the projection monitor (or component display).

NOTE:

When system control connections have been made, the player cannot be directly controlled by the remote control unit. To operate the player, aim the remote control unit at the projection monitor (or component display).

PERFORMING SYSTEM CONTROL WHEN THE PLAYER IS COMBINED WITH A PRODUCT THAT HAS THE 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  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 IN jack of the player to the CONTROL OUT jack of the AV amplifier using a commercially available cord with mini-plugs (without load).

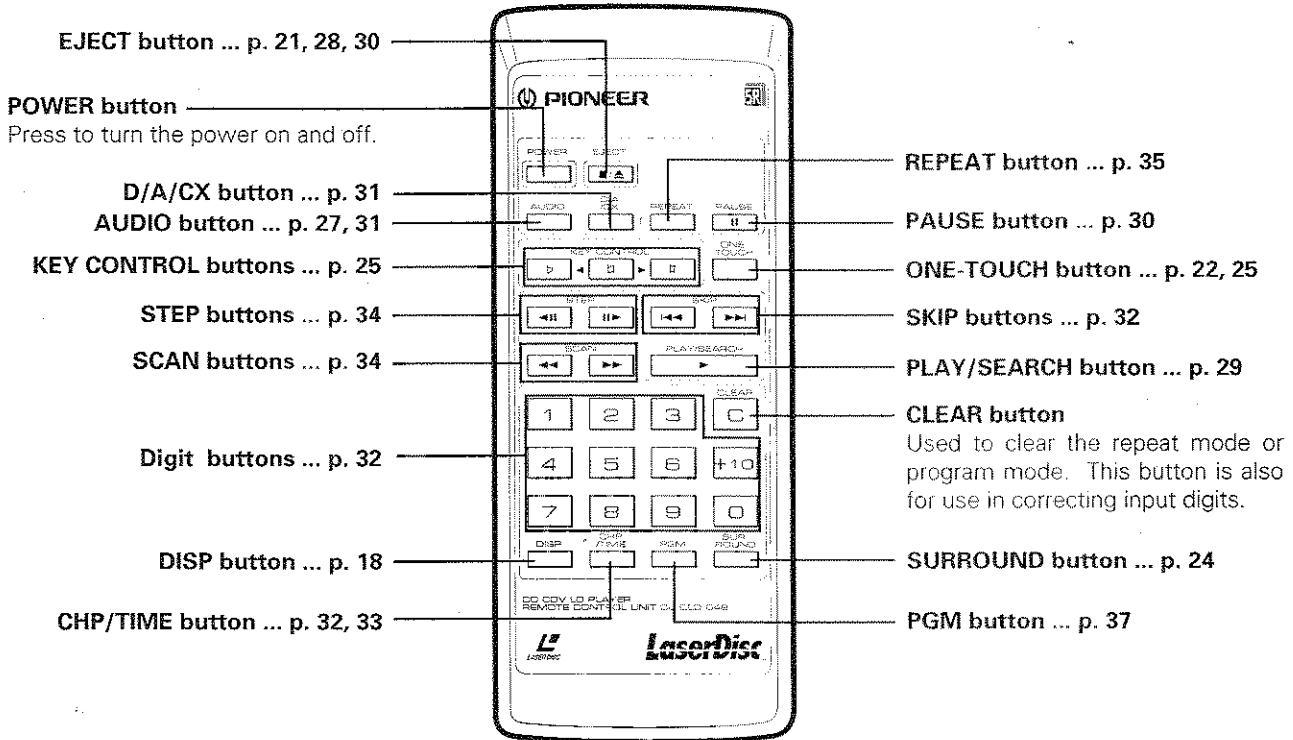
- For details concerning the connection and operation methods, please refer to the operating instructions for the AV amplifier.

NOTE:

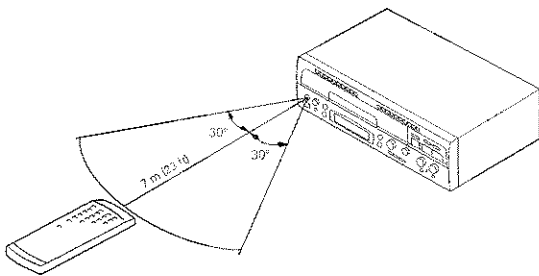
When a connecting cord has been connected to the CONTROL IN jack, direct control of the player with the remote control unit is not possible. Operate the player with the remote control unit by aiming it at the AV amplifier.

NAMES AND FUNCTIONS OF REMOTE CONTROL UNIT COMPONENTS

- A detailed description is provided on the indicated page(s).
- 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.
- Most of the buttons on the remote control unit are used for Disc playback explained from page 28 onwards.



When operating the remote control unit, point the unit's infrared signal transmitter at the remote control receiver (REMOTE SENSOR) on the front panel of the player. The remote control unit can be used within a range of about 7 meters (23 feet) from the remote sensor, and within angles of up to about 30 degrees.



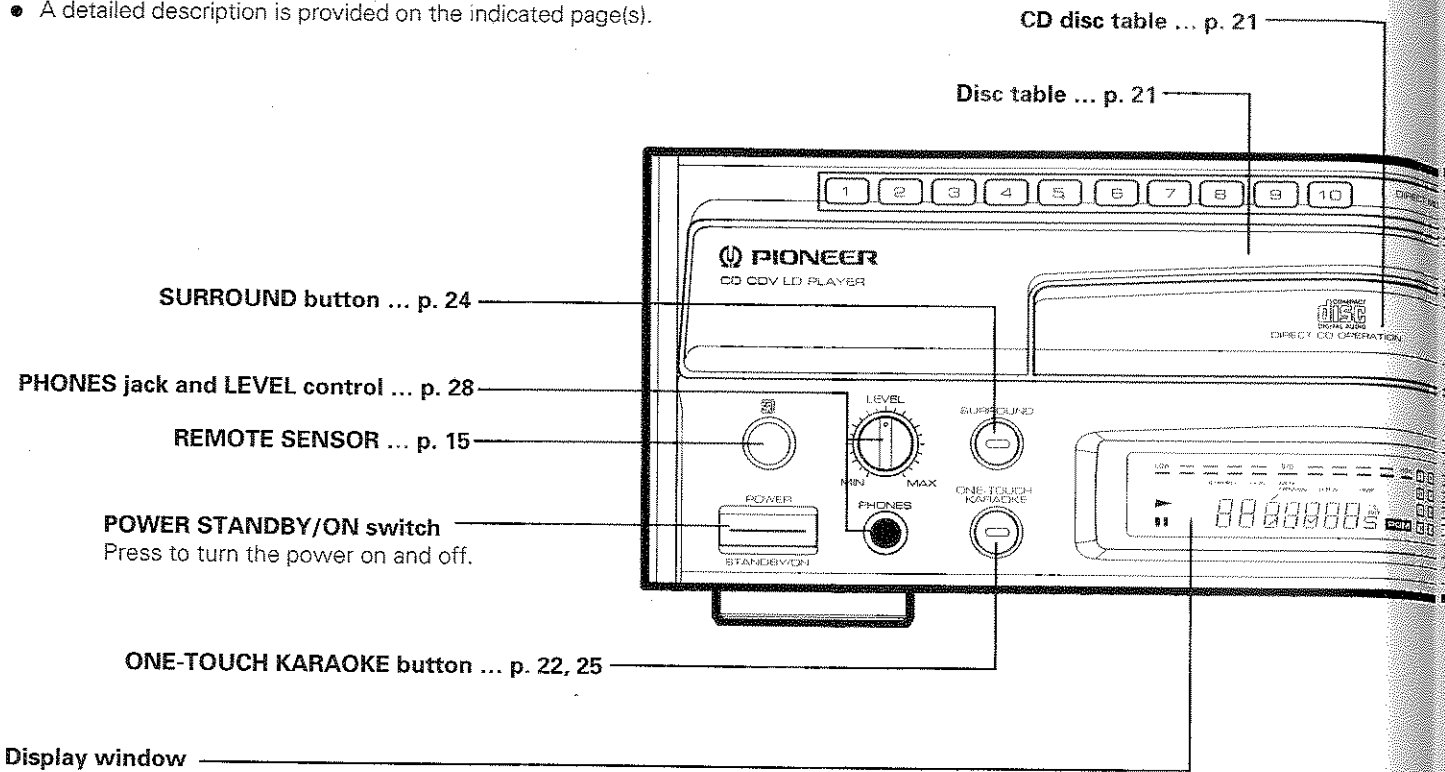
NOTES FOR USING THE REMOTE CONTROL UNIT

- 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 control sensor. Aim the remote control unit at the AV amplifier or the component display's sensor instead.

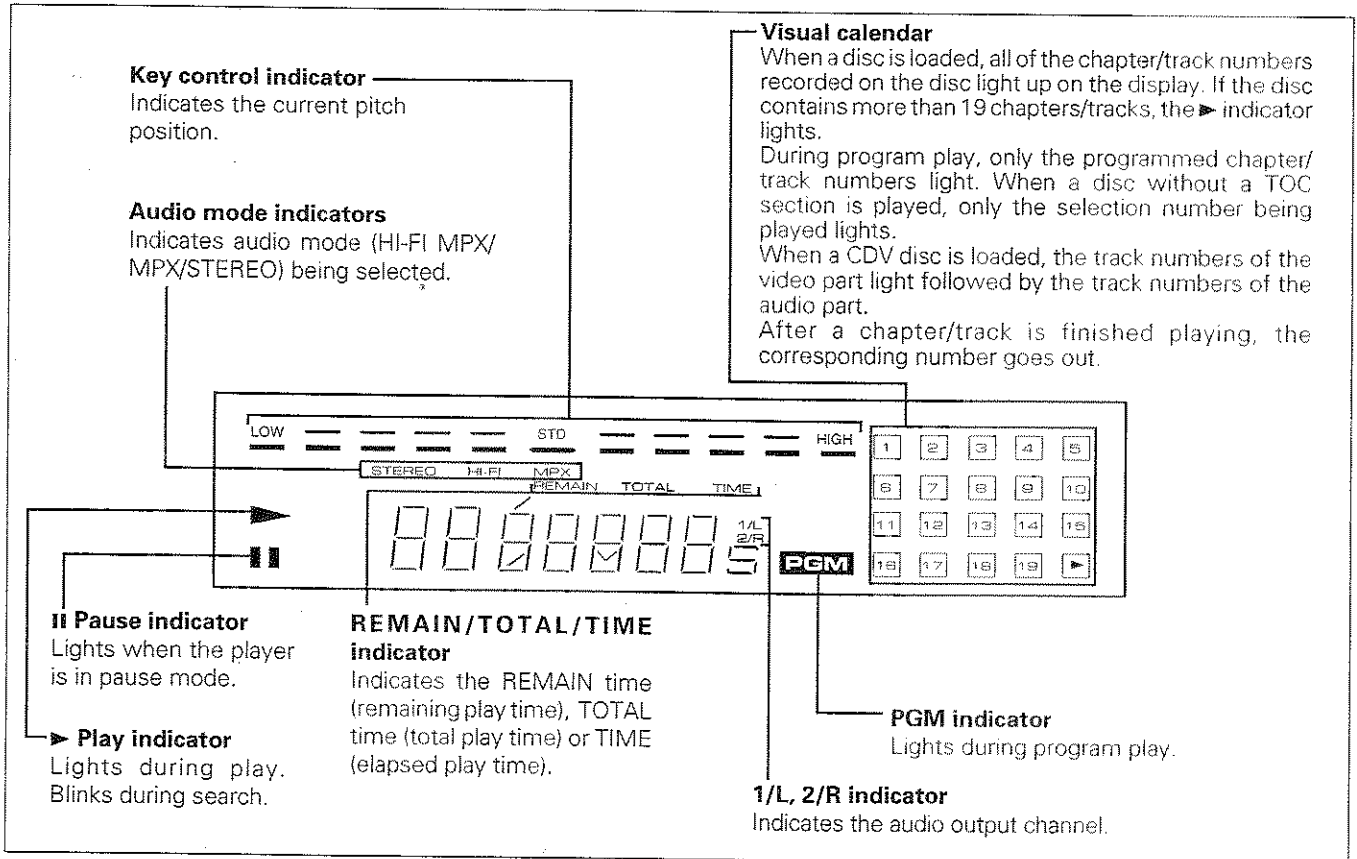
- If there is any obstacle between the remote control unit and the player, or if the unit is held at too large an angle relative to the front panel of the player, the signal from the remote control unit will fail to reach the remote sensor.
- If the player is operating in the vicinity of other appliances generating infrared rays, or if other remote control devices using infrared rays are used near the player, the player may operate improperly. Conversely, if the player's remote control unit is operated in the vicinity of other appliances which use an infrared remote control device, the other appliance may operate improperly. If this should 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.
- 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 before inserting new batteries.
- Do not place books or other objects on the remote control unit, since they might depress the buttons and run down the batteries.
- If the remote control sensor window is in a position where it receives strong light such as sunlight or fluorescent light, control may not be possible.

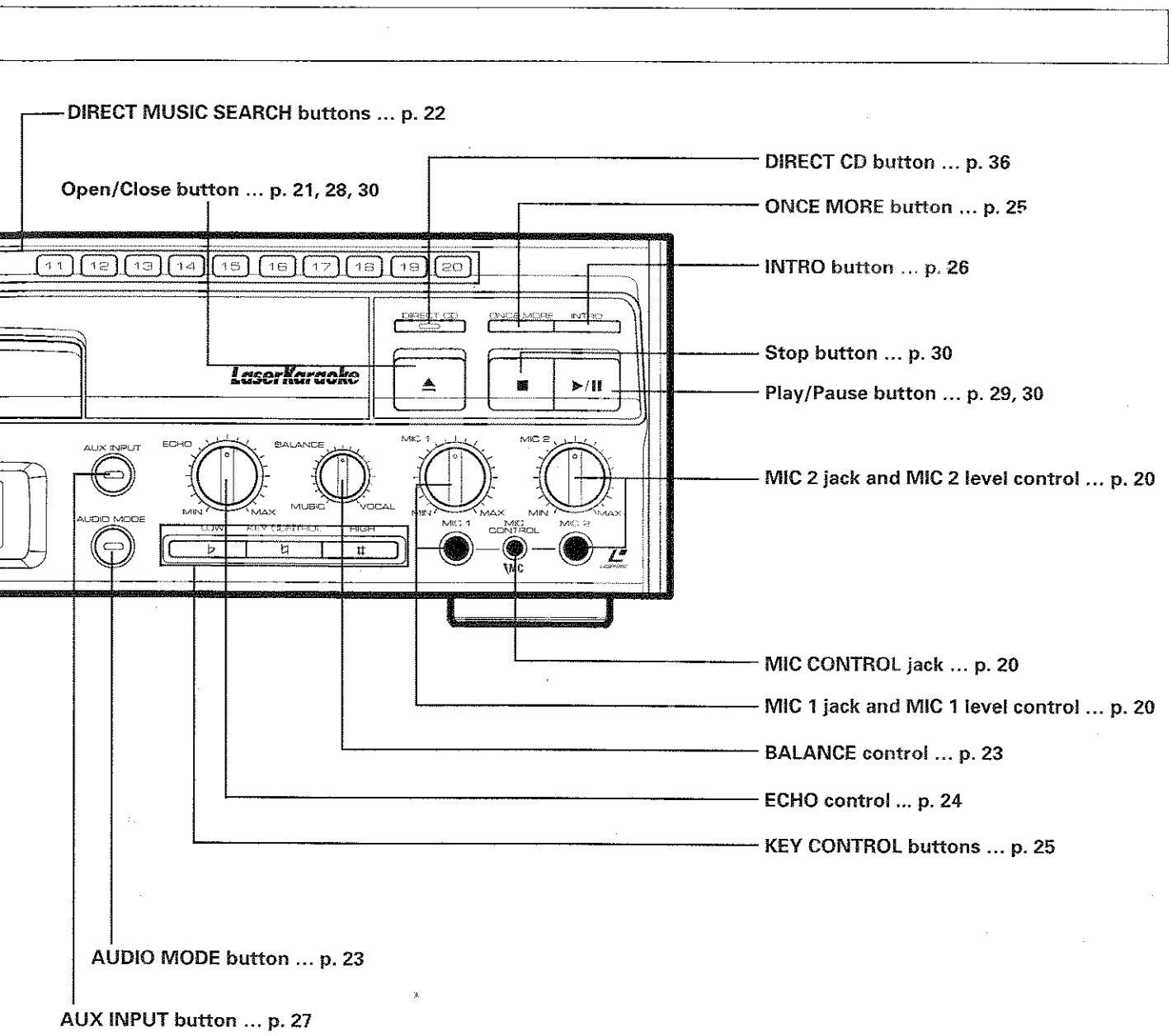
NAMES AND FUNCTIONS OF FRONT PANEL COMPONENTS

- Most of the buttons on the front panel are used for Karaoke play.
- A detailed description is provided on the indicated page(s).



Display window





DIRECT MUSIC SEARCH buttons ... p. 22

Open/Close button ... p. 21, 28, 30

DIRECT CD button ... p. 36

ONCE MORE button ... p. 25

INTRO button ... p. 26

Stop button ... p. 30

Play/Pause button ... p. 29, 30

MIC 2 jack and MIC 2 level control ... p. 20

MIC CONTROL jack ... p. 20

MIC 1 jack and MIC 1 level control ... p. 20

BALANCE control ... p. 23

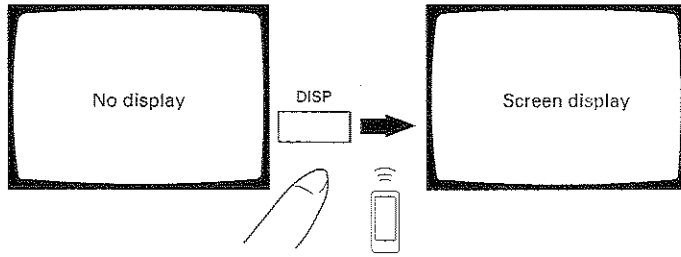
ECHO control ... p. 24

KEY CONTROL buttons ... p. 25

AUDIO MODE button ... p. 23

AUX INPUT button ... p. 27

DISPLAY SWITCHING

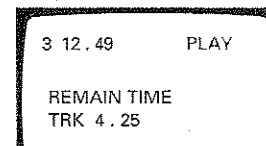
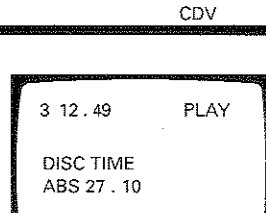
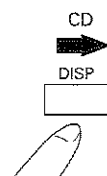
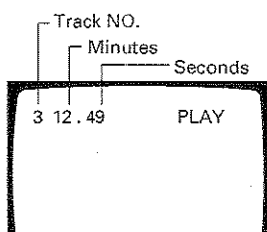
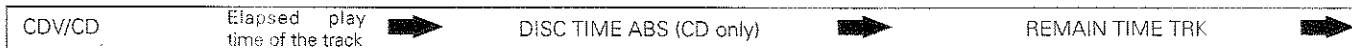
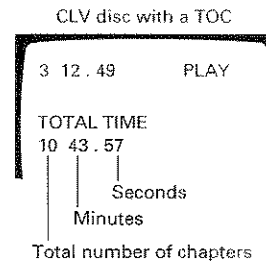
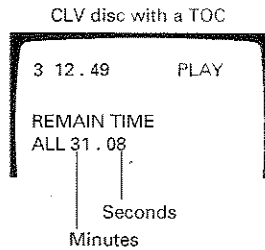
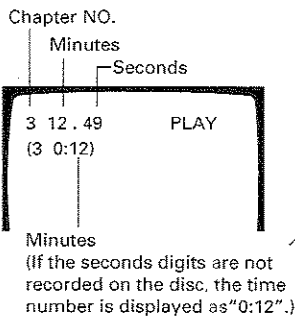
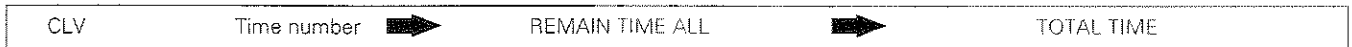


Information regarding the operations being carried out can be displayed on the screen of the monitor TV. When DISP on the remote control unit is pressed the first time, the screen display appears.

With LD discs containing a TOC ...

Each time DISP is pressed, the display changes in the following order: time/frame number (elapsed play time/frame from the beginning of the disc) → REMAIN TIME ALL (remaining play time of the disc) → TOTAL TIME (total play time of the disc) → display off.

- With CAV discs, the Disc time ABS (elapsed play time from the beginning of the disc) is displayed after the frame number.



Other displays

Lights - Flashes	Function	Lights - Flashes	Function
OPEN	Opening of the table	1/L	Main audio/Left channel
CLOSE	Closing of the table	2/R	Sub audio/Right channel
STOP	Stop mode	CX ON	CX noise reduction system ON
PLAY	Play mode	CX OFF	CX noise reduction system OFF
PAUSE	Pause mode	LAST MEMORY	Last memory
STILL	Frozen picture	KARAOKE	Karaoke mode
CLV	CLV play	MPX	Multiplexed
REPEAT CHAPTER (TRACK)	Chapter/track repeat	HIFI MPX	Hi-Fi multiplexed
REPEAT SIDE -A (B)	One side repeat	SURRND	Surround function
REPEAT PROGRAM	Program repeat	THEATER	Theater surround
PROGRAM	Program mode	KARAOKE	Karaoke surround
STEP-	Chapter/Track program step	MUSIC	Music surround
DIGITAL	Digital signal setting	OFF	Surround or Repeat off
ANALOG	Analog signal setting	AUX	AUX input mode
STEREO	Stereo	NORMAL	Normal mode

With LD discs not containing a TOC...

Each time DISP is pressed, the display changes in the following order: time/frame number → display off.

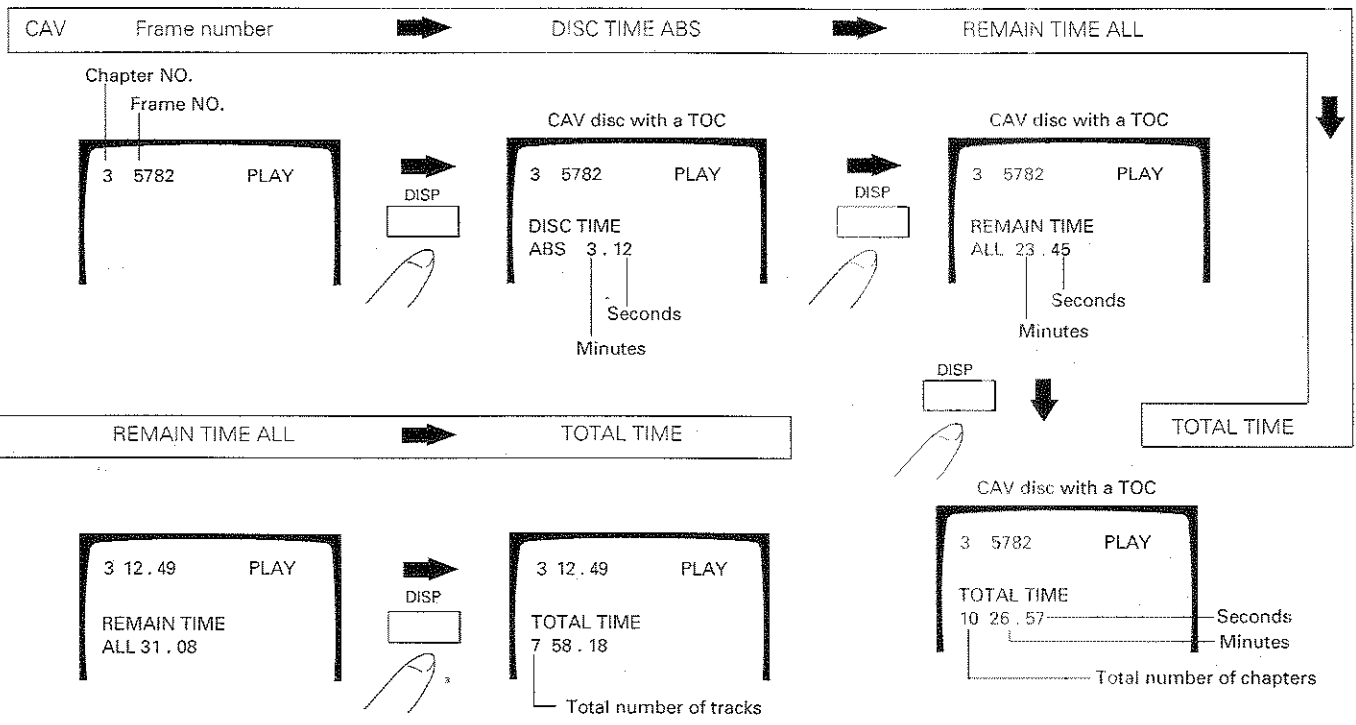
With CDV discs...

Each time DISP is pressed, the display changes in the following order: elapsed play time of the track being played → REMAIN TIME TRK (remaining play time of the track being played) → REMAIN TIME ALL (remaining play time of the video or audio part being played) → TOTAL TIME (total play time from the beginning of the video or audio part being played) → display off.

With CD discs...

Each time DISP is pressed, the display changes in the following order: elapsed play time of the track being played → DISC TIME ABS (elapsed play time from the beginning of the disc) → REMAIN TIME TRK (remaining play time of the track being played) → REMAIN TIME ALL (remaining play time of the disc) → TOTAL TIME (total play time from the beginning of the disc) → display off.

- These data are also displayed on the display window of the front panel.



Audio output level meter display:

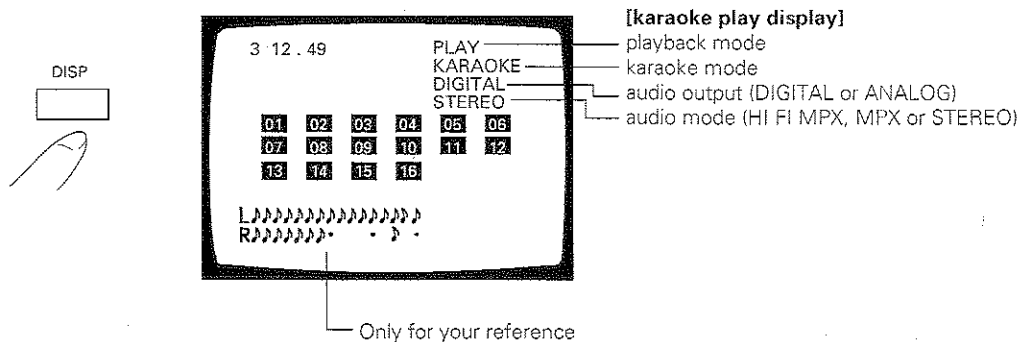
During elapsed play time of the track mode of CD playback or CDV (audio part) playback, the audio output level meter will be displayed on the monitor screen.

NOTE:

When the Direct CD function (→ p.36) is activated, the player does not display information.

NOTE:

In some cases, the displayed output level may differ from the actual output level, but this is not a malfunction.



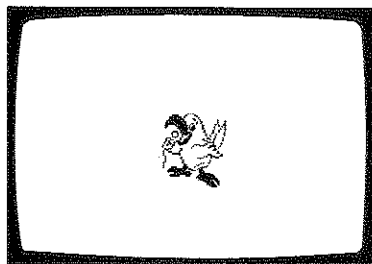
BEFORE STARTING KARAOKE PLAY

- Turn on the power to the monitor TV and/or audio system.
- Before starting karaoke play, carry out the following operations in the sequence indicated below.

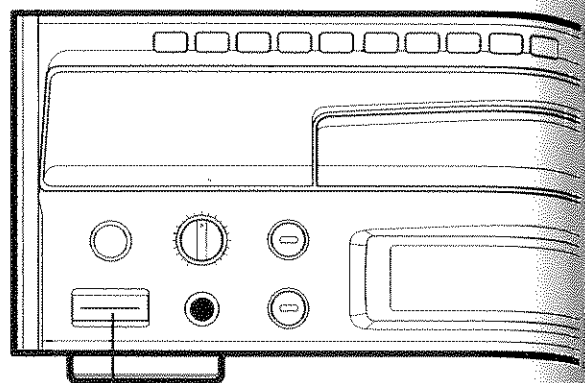
Performance of Karaoke Birds

When karaoke is stopped or paused, karaoke birds appear on the screen to provide us the enjoyment.


without a disc



in the stop or pause mode with a disc

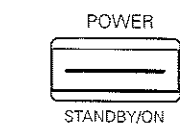


1

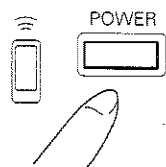
Operations indicated by the [] mark are performed with the remote control unit.

1

Turn on the power to the player.



or




2

Connect and turn on the microphone(s).

- To MIC 1 or MIC 2.
- To MIC 1 and MIC 2 for duets.
- The player automatically enters **karaoke mode** by connecting the microphone to the player.

About microphones

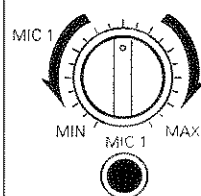
When using a separately sold microphone such as the Pioneer Microphone DM-V161, connect the control-use miniplug to the player's MIC CONTROL () MC jack.

You can control the pitch and operate once more function with microphone.

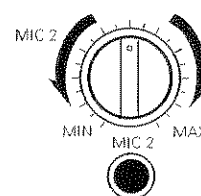
3

Adjust the microphone level.

For MIC 1



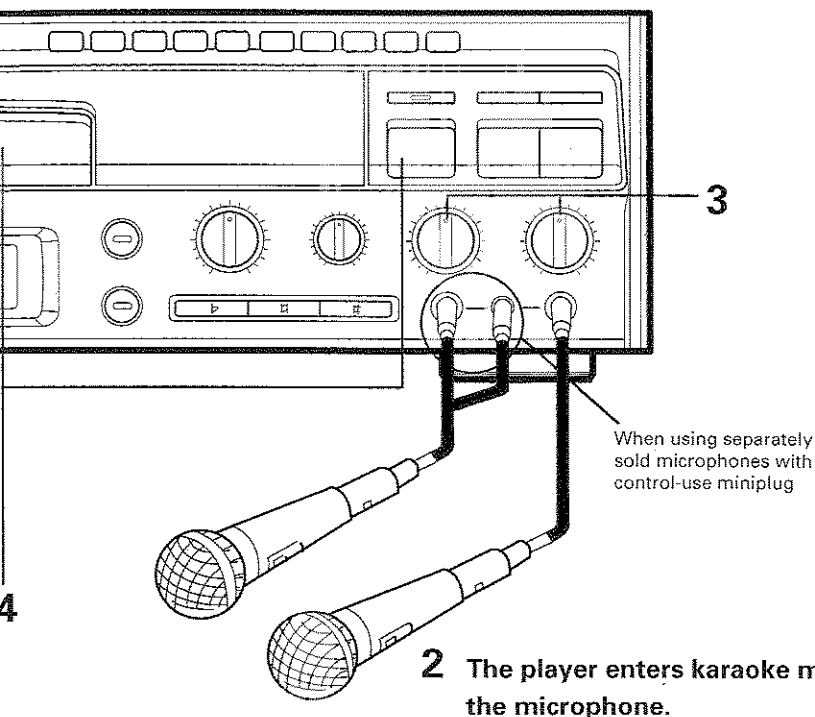
For MIC 2



Adjust the microphone level while speaking into the microphone. (You can also adjust the level while singing during karaoke play.)

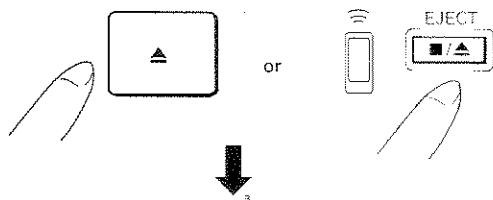
NOTE:

If howling (a high-pitched sound) occurs, decrease the microphone level, separate the microphone farther from the speaker(s), or lower the sound volume of the TV. (If using a stereo amplifier, lower the amplifier's sound volume.)

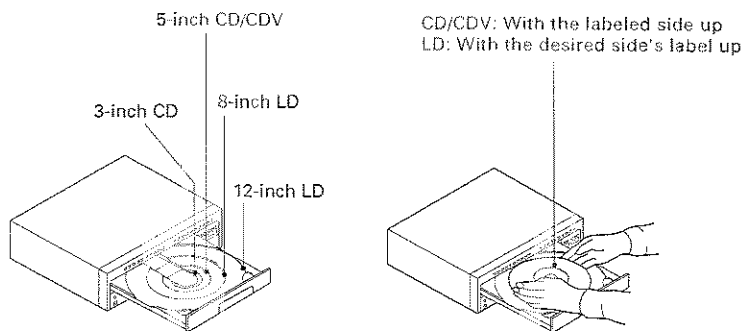


2 The player enters karaoke mode by connecting the microphone.

4 Load a disc.



As shown in the following diagram, place the disc on the disc table in the groove corresponding to the size of the disc. If the disc is not centered correctly on the disc table, the disc will not be played or the disc and/or the player may be damaged. Always place the disc correctly according to the required disc size on the disc table.



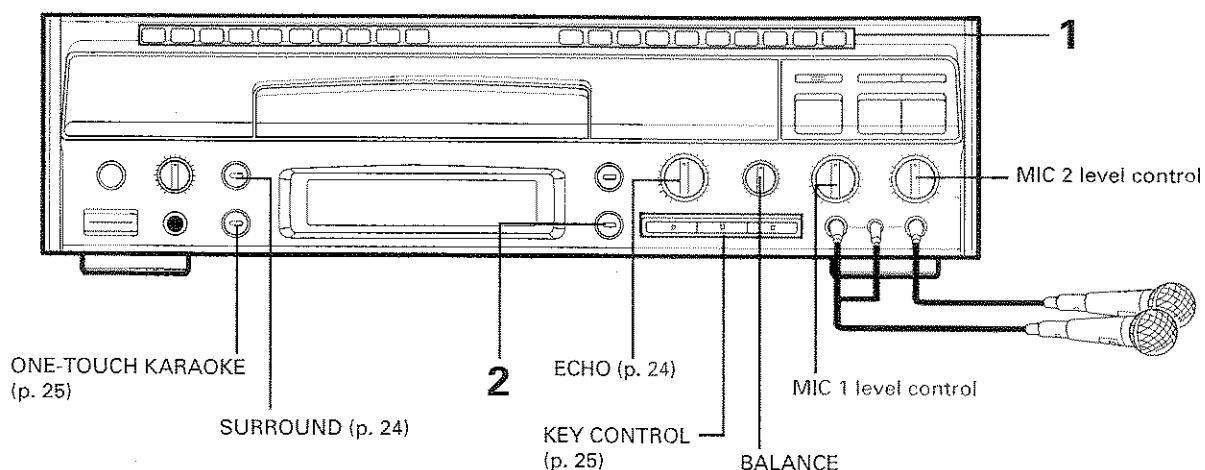
To avoid malfunctions, be especially careful about the following points.

- 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.

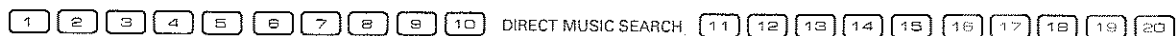
Precautions concerning disc loading

- 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 this unit, playback of all types of CD Video discs is carried out without the use of adapters. Therefore, do not use any type of adapter with this unit.

ENJOYING LASER/CD KARAOKE - BASIC OPERATION



1



Select a song using the DIRECT MUSIC SEARCH buttons. (After one song is finished, select the next song using the DIRECT MUSIC SEARCH buttons.)

One-Song Pause Function:

Playback automatically pauses after one song is played. Select the next song using the DIRECT MUSIC SEARCH buttons. This function can operate only in KARAOKE mode.

When playback starts with ►/|| or PLAY SEARCH ► on the remote control unit, One-Song Pause function is not carried out.

To mainly play the musical accompaniment while listening to the original vocals with low level:

Press ONE-TOUCH KARAOKE so that the indicator lights.

To practice singing while listening to the original vocals (except for general CDs, CDVs or LDs):

Press ONE-TOUCH KARAOKE so that the indicator goes out, then set the BALANCE control to the VOCAL side.

The BALANCE control functions only when "HI-FI MPX" or "MPX" indicator lights. When "STEREO" indicator lights, the BALANCE control does not function.

With multiplexed CD karaoke discs, always light "MPX" indicator by pressing AUDIO MODE or D/A/CX on the remote control unit before setting the BALANCE control.

Pause timer function

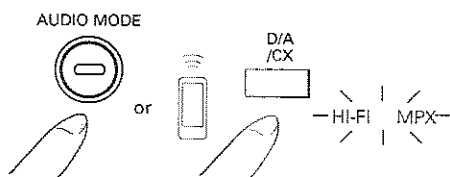
Even when the player is in the pause mode, the disc-drive motor is still revolving. Since leaving the player in this condition can shorten the lifetime of the motor, the player automatically enters stop mode if about 20 minutes elapse in pause mode with LD discs.

- Set the MIC level control(s) and SURROUND to the desired positions. For echo adjustment, see page 24.
- Hi-Fi stereo multiplexed sound is possible when using a karaoke disc which bears the marks digital sound MULTI AUDIO or digital and MULTI AUDIO.

2

(Except for LDs with analog audio only)

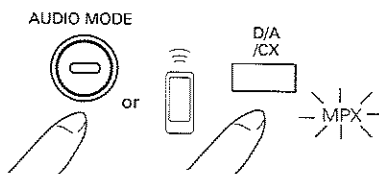
When using multi audio karaoke discs with digital audio:



Press AUDIO MODE or D/A/CX on the remote control unit so that the HI-FI MPX indicator lights in the display window.

- Set the BALANCE control to the MUSIC side.

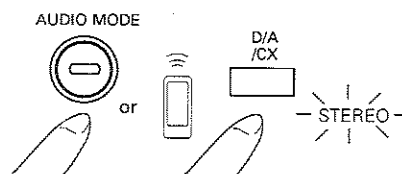
When using sound multiplexed CD karaoke discs:



Press AUDIO MODE or D/A/CX on the remote control unit so that the MPX indicator lights in the display window.

- Set the BALANCE control to the MUSIC side.

When using general CDs, CDVs or LDs (with vocal) as karaoke discs:



Press AUDIO MODE or D/A/CX on the remote control unit so that the STEREO indicator lights in the display window. The BALANCE control does not function in this mode.

To stop karaoke play:

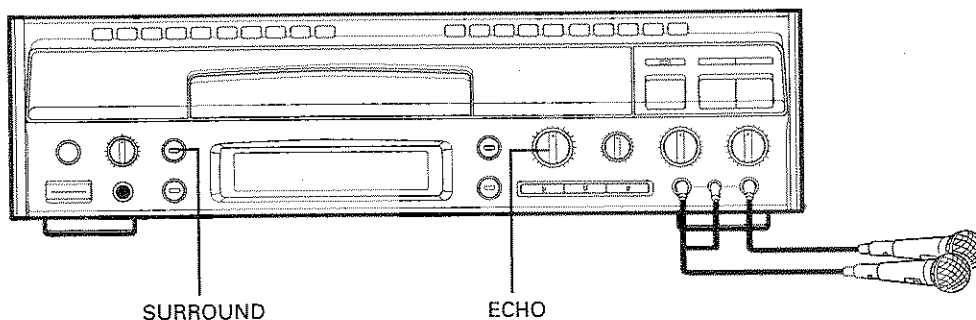
1. Press **▲** or EJECT **■/▲**.
2. Remove the disc.
 - Always be sure to remove the disc from the player when you are finished. Place the disc back in its jacket or case and store the disc in a vertical position.
3. Press **▲** or PLAY/SEARCH **▶** to close the disc table.
 - Always be sure to close the disc table after you remove or load a disc.
4. Press POWER to turn off the power.
5. Turn off and unplug the microphone(s).
 - When using a microphone equipped with a control-use miniplug, first unplug the miniplug and then unplug the main plug.

During playback, if you press the remote control unit's DISP button, the following information screens will appear.



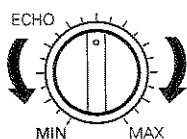
- ① Player status
- ② Player mode
KARAOKE: Karaoke mode
NORMAL: Normal mode
AUX: Auxiliary input mode
- ③ Playback audio
DIGITAL: Digital audio
ANALOG: Analog audio
- ④ Audio mode
HIFI MPX: Hi-Fi multiplex sound
MPX: Multiplex sound
STEREO: Stereo sound

CONVENIENT FUNCTIONS FOR KARAOKE PLAY - "MOOD UP" FUNCTIONS



To adjust the microphone echo level

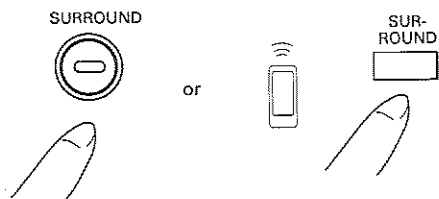
Only in the karaoke mode (p. 20)



Echo is increased by turning the control to the right and decreased by turning the control to the left.

To create a live atmosphere (Surround function)

In the karaoke, normal, AUX mode



Press the SURROUND button, then select THEATER, KARAOKE or MUSIC to create the desired atmosphere.

THEATER: Creates an atmosphere suitable for movie discs.

KARAOKE: Creates an atmosphere suitable for karaoke play.

MUSIC: Creates an atmosphere suitable for music discs.

On screen displays for SURROUND

Lights	Function
SURRND	Surround function
THEATER	Theater
KARAOKE	Karaoke
MUSIC	Music
OFF	Surround off

NOTE:

With discs whose volume level is excessive high, sound may be distorted when the surround function is activated. In this case, set SURROUND to OFF.

Automatic discrimination of disc type when playing various types of discs:

- CD, CDV
You can use the AUDIO MODE button or D/A/CX button on the remote control unit to select either stereo or multiplex.
- LD (analog audio discs)
The player automatically determines whether the disc is multiplex or stereo.
By pressing AUDIO MODE or D/A/CX on the remote control unit, the CX system switches ON and OFF. With discs marked , CX system is always ON by pressing these buttons.

- LD with digital audio (discs which contain both digital and analog audio)

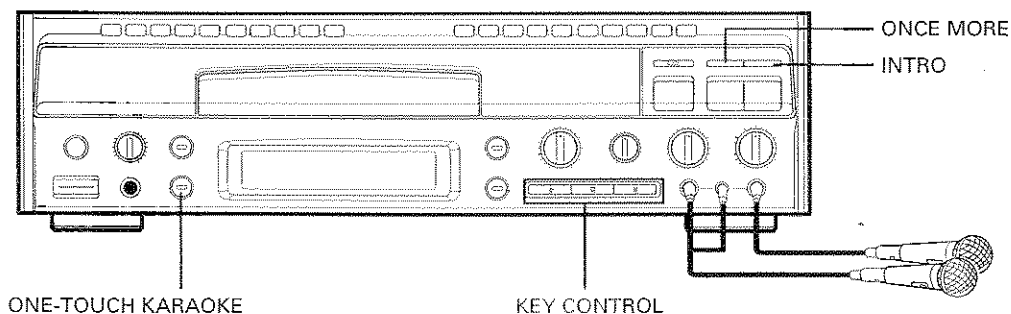
Discs which bear the mark:

The audio mode is automatically identified. However, the AUDIO MODE button or D/A/CX button on the remote control unit can be used to switch between multiplex mode, stereo mode and Hi-Fi multiplex mode only with discs in which the digital and analog audio parts are different. Therefore, digital or analog audio can be selected with these buttons.

Discs without the mark:

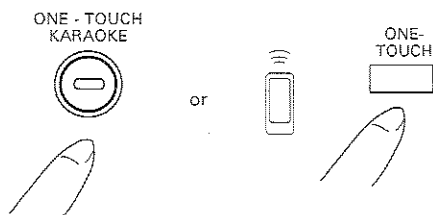
The analog audio part is automatically identified. However, discrimination between stereo and multiplex for the digital audio part is not possible; the digital audio part is regarded as stereo.

CONVENIENT FUNCTIONS FOR KARAOKE PLAY - FOR PRACTICING



To change to karaoke play at the touch of button

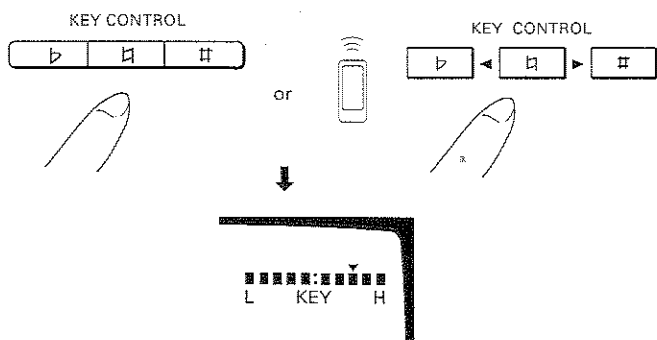
In the karaoke, normal, AUX mode



- You can use this function to change to karaoke play even with general stereo discs. With some discs, however, the singer's voice may remain audible.
 - ONE-TOUCH KARAOKE function is carried out in the stereo playback mode or multiplexed playback mode.
 - With multiplexed CD karaoke discs, the ONE-TOUCH KARAOKE function is carried out when the "MPX" indicator lights by pressing AUDIO MODE or D/A/CX on the remote control unit.
- With general stereo discs (LD, CD or CDV), the ONE-TOUCH KARAOKE function is carried out when the "STEREO" indicator lights by pressing AUDIO MODE or D/A/CX on the remote control unit. It is very useful to practice karaoke with general stereo discs (LD, CD or CDV), for vocal level on discs is reduced.

To set a desired pitch (Key control function)

Only in the karaoke mode (p. 20)



- # : Pitch is heightened each time this button is pressed (up to 5 steps from normal).
- : Pitch returns to normal.
- ▷ : Pitch is lowered each time this button is pressed (down to 5 steps from normal).

NOTE:

Key control does not function without connecting the microphone to the MIC jack.

To repeat a section to correct a singing mistake

Only in the karaoke mode (p. 20)



- Each time ONCE MORE is pressed, playback returns to a point approximately 5 seconds earlier in the song. If you press ONCE MORE several times, playback will return to a point earlier in the song equivalent to the number of presses x 5 seconds. However, the position will not return to a point earlier than the beginning of the selected song. When playback returns to the beginning of the selected song and pauses, press || or ONCE MORE to start playback.
- If you press ONCE MORE while the player is in pause mode, playback will resume. (Once more start function)
 - If you use a microphone equipped with a ONCE MORE button, you can carry out the Once more and Once more start functions from the microphone.

TO SEARCH FOR A PARTICULAR CHAPTER/TRACK

Intro Scan

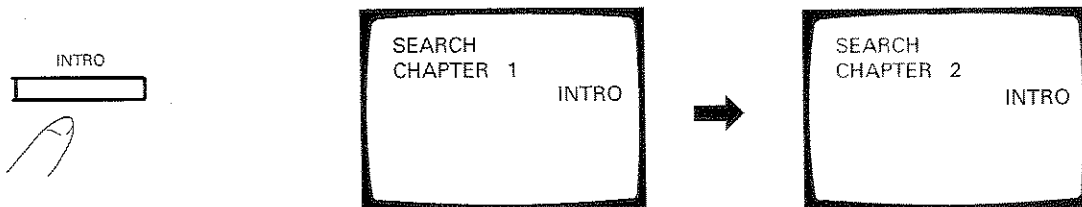
In the karaoke, normal mode

Intro Scan

When INTRO on the front panel is pressed, the beginning of each chapter is played for about 10 seconds.

During the desired chapter or track is played, press ►/II or PLAY/SEARCH (►). The unit enters play mode.

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

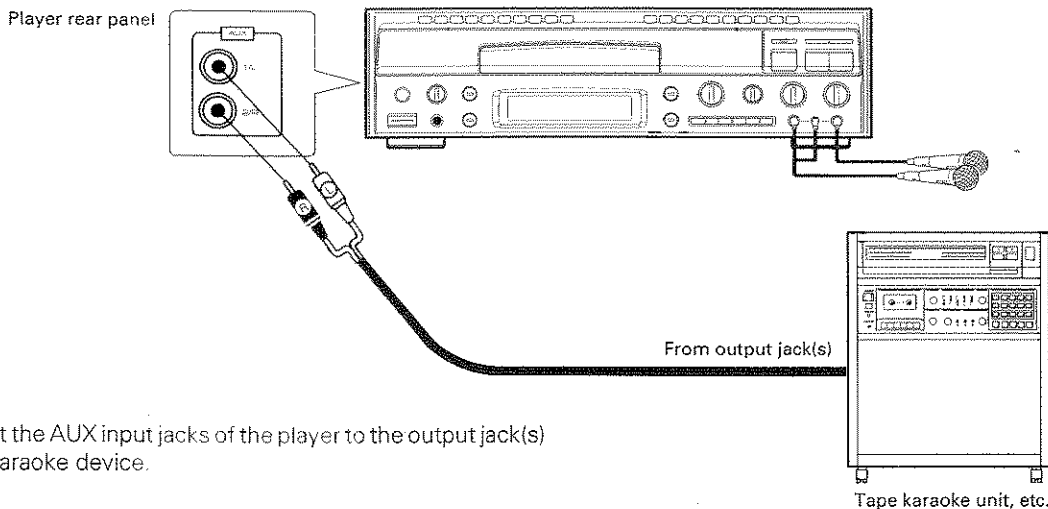


NOTE:

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

ADDITIONAL FUNCTIONS POSSIBLE WITH OTHER KARAOKE DEVICES

Connection

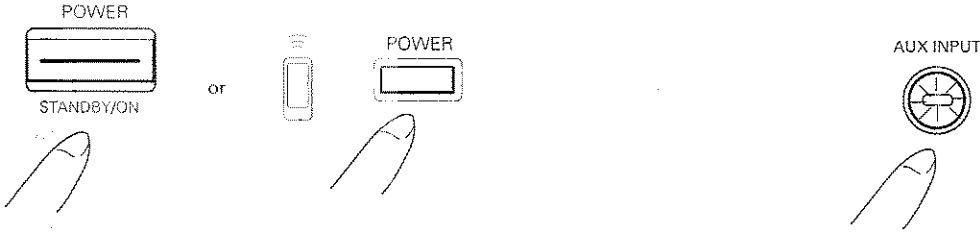


Connect the AUX input jacks of the player to the output jack(s) of the karaoke device.

Operation

1 Turn on the power.

2 Press the AUX INPUT button.
 ● The AUX INPUT indicator lights.

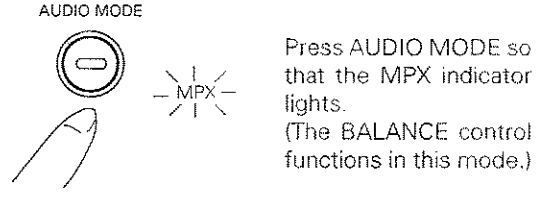
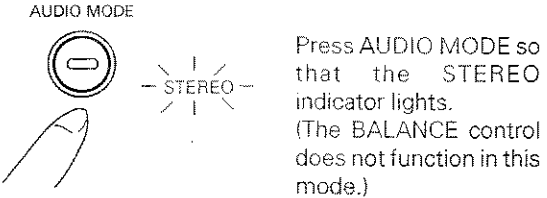


3 Select the audio mode that corresponds to the auxiliary device.

NOTE:
 AUX INPUT does not function without connecting the microphone to the MIC jack.

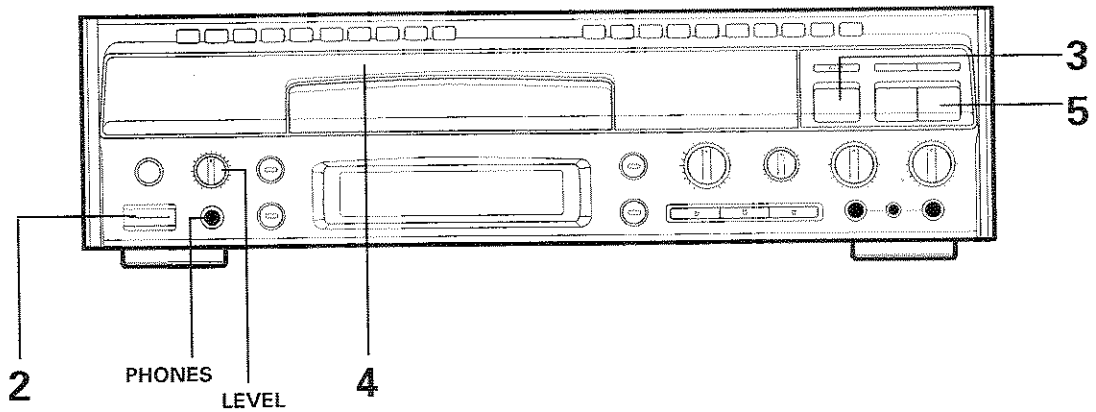
If the auxiliary input component is a stereo device:

If the auxiliary input component is a sound multiplexed device:



- HI-FI MPX mode does not function in AUX INPUT mode. Also, this unit's One-Song Pause function will not operate even if you directly select a song.
- The musical pitch of the device connected to the AUX input jacks can be changed using the KEY CONTROL buttons. Also, the One Touch Karaoke function can be carried out.

TO PLAY AN LD, CDV OR CD



1
Turn on the power to the monitor TV and/or audio system.

When a stereo system is used for audio listening:
Turn on the power of the amplifier, and set its input selector to the proper position for listening to the player, such as "CD" or "LD".

2
Turn on the power to this unit.

POWER
STANDBY/ON

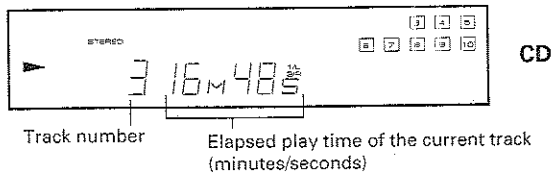
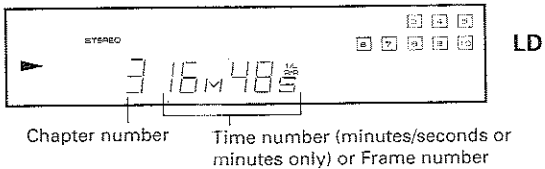
or

POWER

3
Open the disc table.

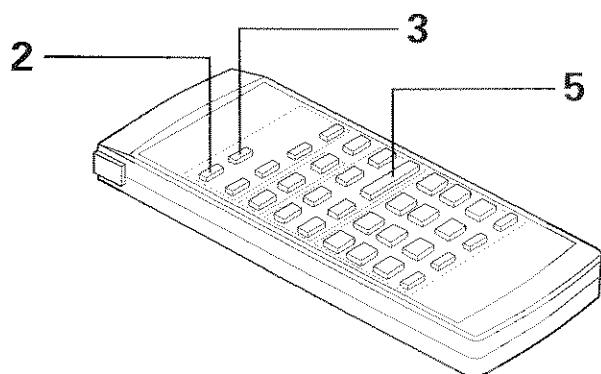
EJECT

State of the display window during playback:



To play and listen to a disc without connecting this unit to an audio system:

Plug headphones into the PHONES jack on the front panel of this unit and adjust the volume with LEVEL.



Front panel buttons and remote control unit buttons with the same name or mark have the same function.

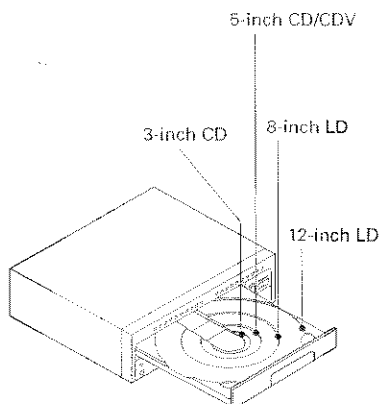
4

Load a disc.

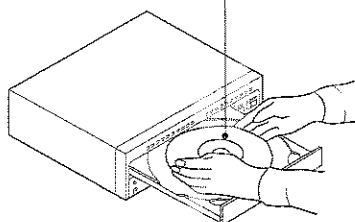
As shown in the following diagram, place the disc on the disc table in the groove corresponding to the size of the disc.

If the disc is not centered correctly on the disc table, the disc will not be played or the disc or the player may be damaged.

Always place the disc correctly according to the required disc size on the disc table.



CD/CDV: With the labeled side up
LD: With the desired side's label up



5

Start playback.



or



PLAY/SEARCH



- With CDV discs, the video part is played first.
- With the surround function (→ p. 24), you can select the desired atmosphere to match the disc genre, such as theater, karaoke or music.

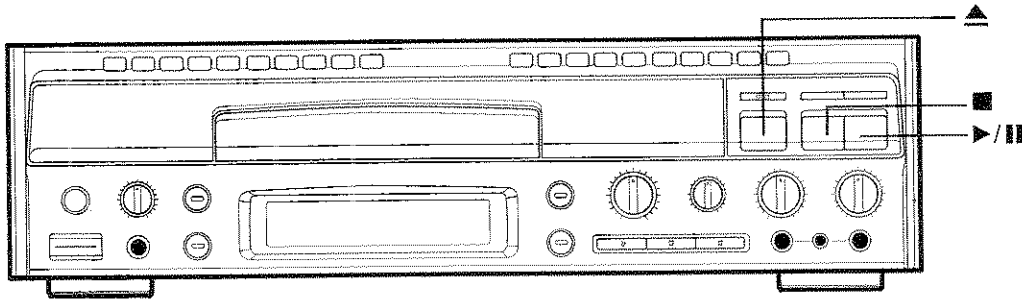
To avoid malfunctions, be especially careful about the following points.

- 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 this unit, playback of all types of discs is carried out without the use of adaptors. Therefore, do not use any type of adaptor with this unit.

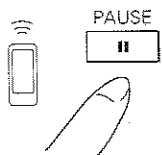
TO PLAY AN LD, CDV OR CD (Continued)



To pause playback temporarily



or



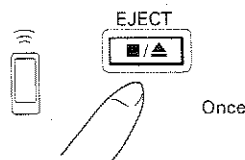
The sound and/or video image disappears. Press ▶/|| or PAUSE || again to resume playback from the position where pause mode was entered.



To stop playback



or



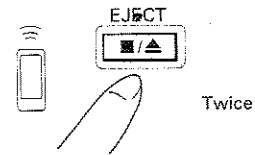
When ▶/|| or PLAY/SEARCH ▶ is next pressed, disc playback starts again from the beginning.



To stop playback and take out the disc






or

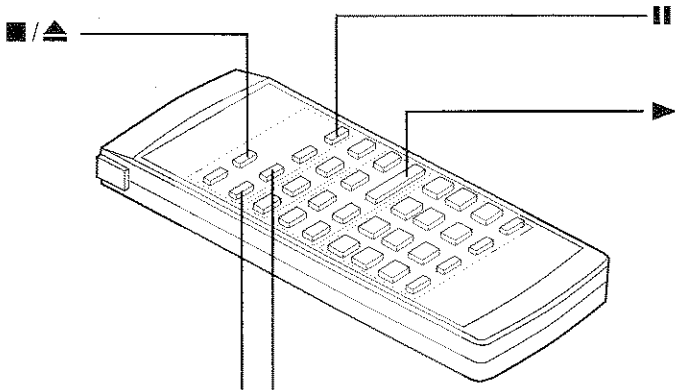


After removing the disc from the disc table, press ▲ or PLAY/SEARCH ▶ to close the table.

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 D/A/CX on the remote control unit.

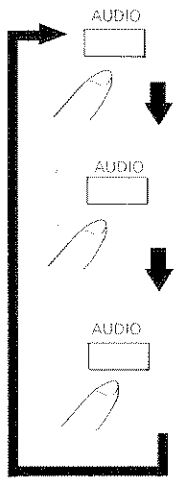
-  is a trademark of CBS Inc. This player meets the CX EXPANDING SPECIFICATION.



D/A/CX

To listen to only one channel of a stereo disc, or to select the audio on a Multi Audio disc

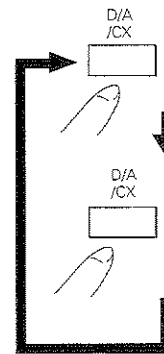
During playback



Played audio		Display on screen
Stereo disc	Multi Audio disc	
Stereo	Audio 1/L (Left) Audio 2/R (Right)	
Left	Audio 1/L (Left)	1/L ch
Right	Audio 2/R (Right)	2/R ch
Return to start		Stereo

To listen to the analog audio of an LD digital audio disc:

During playback



Played audio	Display on screen
Digital	
Analog	Analog
Return to start	Digital

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

Examples of the various types of audio recorded on Multi Audio discs

Disc	Audio	Analog audio	Digital audio
Movies, animations, etc.		Audio of the main program	Soundtrack
Dual music		Music 1	Music 2
Various types of digital audio karaoke		1/L Karaoke (monaural) 2/R Assisting vocals	Stereo karaoke
Stereo bilingual		Native language	Foreign language 1

Disc	Audio	Analog audio	Digital audio
Trilingual		Native language	1/L Foreign language 1 2/R Foreign language 2
Quadrilingual		1/L Native language 2/R Foreign language 1	1/L Foreign language 2 2/R Foreign language 3

TO SEARCH FOR A PARTICULAR CHAPTER/TRACK

Chapter (Track) Search/Chapter (Track) Skip

The term "chapter" refers to each section on an LD, and the term "track" refers to each section on a CD or CDV disc. If chapter or track numbers are encoded on a disc, it is so indicated on the disc jacket.

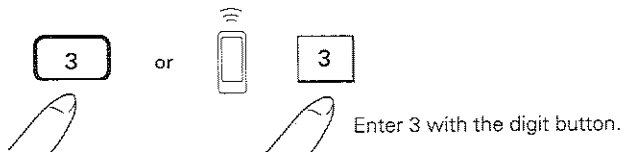
- Chapter Search is not possible with discs which are not divided into chapters.

Chapter (Track) Search – To search by designating the chapter/track number

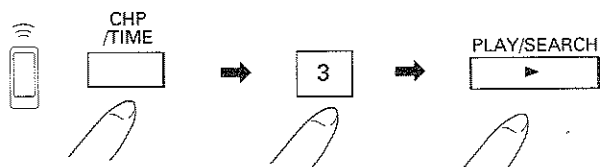
Example:

To play from the beginning of Chapter/Track 3:

<Direct Search>



<Normal Search>



When the display shows Frame No. or Time No. press this button again.

Enter 3 with the digit button.

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**

If you make a mistake in pressing the digit buttons during normal search operation:

Press CLEAR, and then press the correct button.

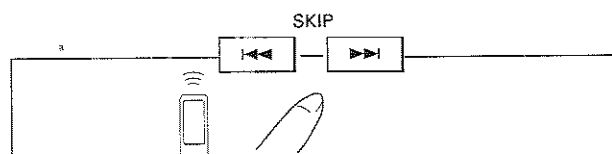
To identify the present chapter number and frame (or time) number:

The numbers are displayed in the front panel display window. The information can also be displayed on the monitor TV screen by pressing DISP on the remote control unit.

CAV discs (for Normal Search):

When Chapter Search is started by pressing PLAY/SEARCH ► on the remote control unit, the beginning of the designated chapter is played with still frame.

Chapter (Track) Skip – To search for the beginning of a chapter/track



Press once to return the playback position to the beginning of the chapter/track being played. If the button is pressed more than once before the picture reappears, the beginning of a chapter/track located before the chapter/track being played is searched for and played. The position of the located track corresponds to the number of times the button is pressed.

If this button is pressed once or a number of times, playback is advanced to the beginning of a chapter/track located after the chapter/track being played. The position of the located track corresponds to the number of times the button is pressed.

To cancel the search operation

Press CLEAR while the player is searching for the chapter or track.

TO SEARCH FOR A PARTICULAR TIME/FRAME**Time Number Search/Track time Search/ABS Time Search/Frame Number Search**

Time Number Search – Example: To search for the scene located at time number 12 min. 34 sec (CLV)

1. Press CHP/TIME.

When the display shows chapter No., press this button again.

2. Enter [1], [2], [3] and [4] with the digit buttons.

If you make a mistake during entry:

Press CLEAR to reset the time number to "0.00", and then press the correct digit buttons.

3. Press ► or ►/II.

CAUTION

If a disc does not contain information on the digits of seconds, specify the time number only as far as the minute digits.

Track Time Search – To search for a time on a specified track (CD/CDV)

1. Press CHP/TIME.

2. Press SKIP |◀◀ or ▶▶| so that the desired track number appears in the front panel display window.

3. Enter the track time (elapsed time from the beginning of the specified track) with the digit buttons (0 - 9).

4. Press ► or ►/II.

ABS Time Search (CD only) – To search for a point by designating the elapsed time from the beginning of the disc

1. Press CHP/TIME so that "Ab" appears in the front panel display window. (On the monitor screen, "ABS" appears.)

2. Enter the elapsed time from the beginning of the disc with the digit buttons (0-9).

3. Press ► or ►/II. Playback starts from the specified elapsed time.

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/TIME. When the display shows chapter NO., press this button again. "Frame 0" is displayed.

2. Enter the required frame number with the digit buttons (0 - 9).

3. Press ► or ►/II. The designated frame is played as a still frame.

NOTES:

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

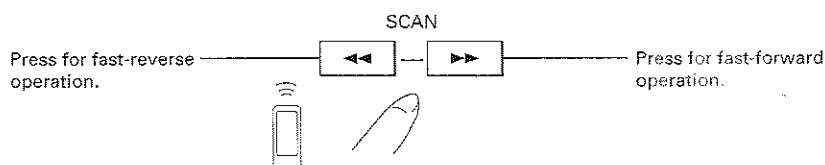
To exit search mode:

Press CLEAR.

TO SEARCH FOR A PARTICULAR PASSAGE

Manual Search

Manual Search – Search using fast forward or fast reverse



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

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

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

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

- With CDs or audio part of CDVs, Clear Scan mode cannot be carried out.
- With video part of CDV, High Scan mode cannot be carried out.

- In Clear Scan mode, when digital sound is selected with digital audio discs, sound is heard at low volume level. In karaoke mode, sound is muted.
- With CDs or audio part of CDVs, sound is heard at low volume level while scanning
- Others: Sound is muted.

Note on CAV:

While scanning, noise may occur on the screen. This is not a malfunction.

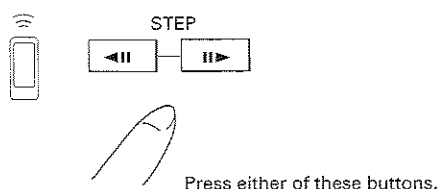
Notes on CLV:

- While scanning, the color of the image may fade out or the image sometimes fluctuates.
- The scan speed is different between inner tracks and outer tracks.

LD(CAV)

EXTRA PLAYBACK

Still frame and Frame-by-Frame advance function



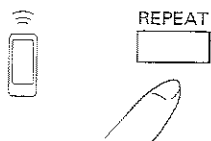
During playback if STEP on the remote control unit is pressed, the picture will be frozen. At this point, the disc can be played one frame at a time in either the forward or reverse direction by pressing one of these buttons. The sound is muted during still frame or frame advance operation. To return to normal playback operation, press ►.

NOTES:

- If a disc containing special signals called "picture stop codes" is played, the picture is automatically frozen whenever the unit encounters a frame where a picture stop code is encoded. To move from that position, press ►.
- If a microphone is connected to the MIC jack, the beginning of the chapter is designated by the picture stop code, the picture will not be frozen even when the chapter is reached with frame advance function.

TO REPEATEDLY PLAY A DESIRED PASSAGE – Repeat Playback

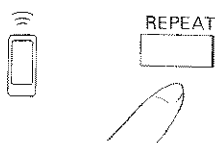
Chapter/Track Repeat – To repeat the current chapter or track



Press REPEAT on the remote control unit 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. When the player returns to the beginning of the chapter/track, "Repeat Chapter (Track)" appears on the monitor screen.

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



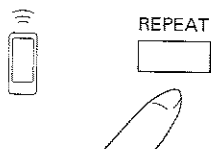
Press REPEAT twice. "Repeat Side-A (B)" appears on the monitor screen.

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. With CDV discs, when playback reaches the end of the audio part, the player returns to the beginning of the video part and the whole disc 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.

- See page 37 for details on programming.



Press REPEAT while the program is being played. "Repeat Program" appears on the monitor screen.

To exit repeat mode:

Press CLEAR on the remote control unit. Repeat mode is canceled and normal playback continues from the current point.

To display repeat mode on the monitor screen:

Press DISP on the remote control unit.

With LDs which have no chapter numbers:

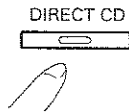
Chapter repeat cannot be carried out. With such discs, playback enters One Side repeat mode by pressing REPEAT.

PARTICULAR FUNCTIONS FOR CD – Direct CD

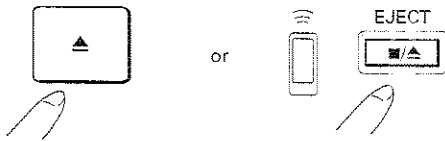
Since the picture circuit is deactivated and the interference between signals is eliminated with the Direct CD function, more pure sound can be reproduced.

1 Press DIRECT CD on the front panel.

- The DIRECT CD button is illuminated.

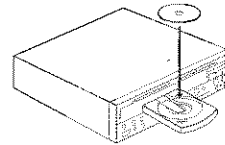


2 Press ▲ or EJECT ■/▲ to open the CD disc table.

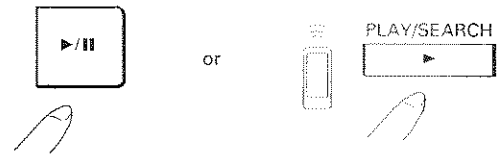


- The CD disc table comes out.

3 Load a disc.



4 Press ►/II or PLAY/SEARCH ► to start playback.



- When the Direct CD function is activated, the player does not display information.
- In Direct CD mode, time for starting play becomes short compared with that of normal play operation.

To exit Direct CD mode:

Press DIRECT CD again. Also, when LD is played, Direct CD mode is canceled automatically.

To play an LD:

Cancel the Direct CD mode. Otherwise, the LD cannot be set on the disc table.

On screen display:

The information is displayed on the blue screen by pressing DISP on the remote control unit. Also, when programming or editing, the information is displayed.

By turning off the screen display or canceling the input mode, the player automatically turns off the picture circuit, and the screen turns to black.

NOTES:

- During LD play, the player does not enter the Direct CD mode even if DIRECT CD is pressed. During CDV play, the player automatically turns on and off the picture circuit according to the video part or audio part in the Direct CD mode.
- You can select the Direct CD mode even when the LD disc table is left opened. To enter the Direct CD mode, press DIRECT CD. The player automatically closes the LD disc table and the DIRECT CD button is blinking while the LD disc table is closing. After the LD disc table is completely closed, press ▲ or EJECT ■/▲ to open the CD disc table. If ▲ or EJECT ■/▲ is pressed during the LD disc table's closing, the Direct CD mode is canceled and the LD disc table comes out.

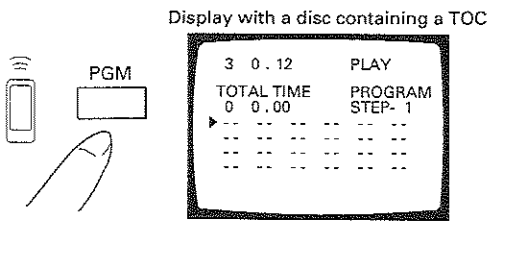
TO PLAY ONLY DESIRED SCENES/TRACKS – Program Playback

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 play CD tracks No. 9, No. 7, and No. 18 in this order:

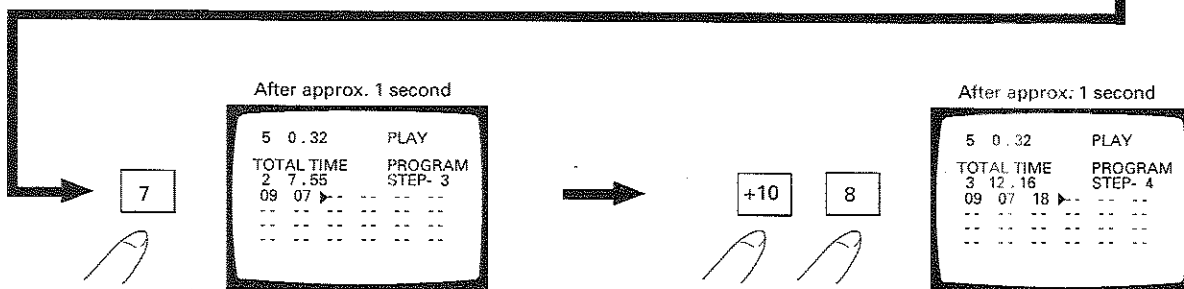
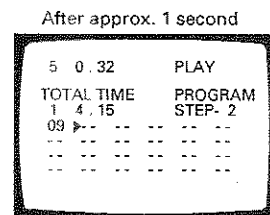
1 Press PGM.



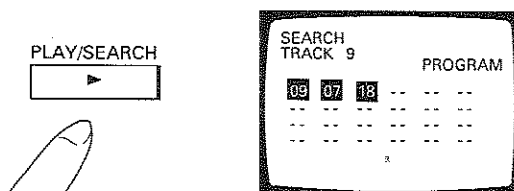
2 Enter 9, 7, +10, and 8 with the digit buttons.

If you make a mistake during entry: Press CLEAR and enter the correct number with the digit buttons.

- To enter the track No. up to 20, the DIRECT MUSIC SEARCH buttons on the front panel can be used.



3 Press PLAY/SEARCH ▶.



The first track (chapter) in the program is searched for and played. In this example, Program Playback starts at the beginning of track number 9.

After tracks No. 9, No. 7, and No. 18 have been played, the player enters stop mode.

To stop program play in the middle:

- Press ■ on the front panel of the player or EJECT ■/▲ on the remote control unit.
- Press CLEAR on the remote control unit.

To clear the program contents:

- Open the disc table.
- Press CLEAR on the remote control unit in stop mode.

Programming a pause:

When recording on a cassette tape, a programmed pause allows you to change the tape side or to record a blank section on the tape which is useful for music search functions, etc. When a program is in pause mode, pressing PAUSE ■ resumes disc playback, so restart recording before pressing PAUSE ■.

To program a pause:

In step 2 of the above procedure, press PAUSE ■ instead of entering a chapter or track number.

NOTES:

- A pause cannot be programmed for step 1, nor for two consecutive steps.
- A pause can be programmed for the last program step, however, it will not be effective.

Programmed pause indication:

On the monitor screen – ■■
In the front panel display window – PA

To go to the previous or next chapter (track) in a program:

Press SKIP ◀◀ or ▶▶ on the remote control unit.

Total time display (CD and CDV only):

When programming for CD or CDV, the total time of the programmed tracks is displayed. If the total time exceeds 100 minutes, 100's digit will not be displayed in the display window of the front panel.

- If track No. 33 or more is programmed, the total time will not be displayed.

Program Playback

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 erase a programmed chapter/track or pause

1. Press PGM.
2. Press SKIP |◀◀ or ▶▶| to place the cursor (▶) on the left side of the chapter/track or pause to be erased.
3. Press CLEAR.
4. Press PGM to complete programming. Pressing ▶ also completes programming and starts program playback with the new program contents.

To change a programmed chapter/track or pause to a new one


1. Press PGM.
2. Press SKIP |◀◀ or ▶▶| to place the cursor (▶) on the left side of the chapter/track or pause to be changed.
3. Enter the new chapter/track number with the digit buttons.
Press PAUSE || to enter a pause.
4. Press PGM to complete programming. Pressing ▶ also completes programming and starts program playback with the new program contents.
 - A programmed chapter/track being played cannot be erased or changed.
 - A programmed pause already engaged cannot be erased or changed.

CAUTION

If SCAN ▶▶ 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.

TROUBLESHOOTING

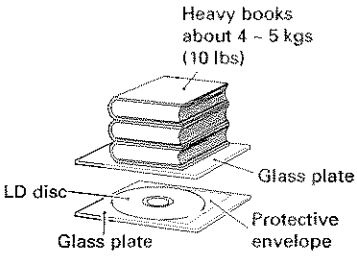

Incorrect operations often cause troubles and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Inspect the other components and electrical appliances being used. If the trouble cannot be rectified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

SYMPTOM	CAUSE	REMEDY
1. Disc table is not ejected when  is pressed.	<ul style="list-style-type: none"> ● Power cord is not properly plugged into AC wall socket. ● Power switch is not turned on. 	<ul style="list-style-type: none"> ● Plug in power cord. ● Turn on power switch.
2. Disc table comes out.	<ul style="list-style-type: none"> ● Disc is dirty. ● The disc is not properly set on the disc table. ● Moisture has condensed on parts in the player. ● Disc is warped. 	<ul style="list-style-type: none"> ● Clean disc. ● Set the disc properly. ● Remove disc and let player stand for 1 to 2 hours until it is dry. ● Try to alleviate the warp. (Refer to Symptom 7, remedy column.)
3. Remote control does not work.	<ul style="list-style-type: none"> ● The CONTROL IN terminal on the rear panel is connected to Pioneer projection monitor or AV amplifier. ● Batteries are weak. ● There is an obstacle between the player and the remote control unit. ● Remote control unit is not in a good location for transmission. 	<ul style="list-style-type: none"> ● Aim the remote control unit at the projection monitor or AV amplifier. ● Replace batteries. ● Remove the obstacle or shift the remote control position. ● Operate the remote control unit in front of the player.
4. Operation of the remote control unit causes the TV to operate improperly.	<ul style="list-style-type: none"> ● Some TV sets have remote control functions that operate improperly in response to the remote control unit of the player. 	<ul style="list-style-type: none"> ● Move the TV and the player further apart, or cover the remote sensor of the TV during disc playback.

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

TROUBLESHOOTING

WHEN A LASERVISION DISC IS BEING PLAYED

SYMPTOM	CAUSE	REMEDY
5. Disc is rotating but there is no picture.	<ul style="list-style-type: none"> The TV set is not turned on. Wrong connections from player to TV. 	<ul style="list-style-type: none"> Turn on TV. Make correct connections.
6. Picture continuously moves vertically.	<ul style="list-style-type: none"> The TV vertical hold control is not adjusted properly. 	<ul style="list-style-type: none"> Adjust vertical-hold control on TV.
7. Particular disc does not playback properly. The playback stops in the middle of the disc program.	<ul style="list-style-type: none"> The playing surface of the disc is dirty. The disc is warped. 	<ul style="list-style-type: none"> Use a soft cloth and lightly wipe off the dirt from the surface of the disc. If necessary, moisten a cloth with diluted neutral detergent to remove heavy dirt or fingerprints. LD discs only Put the disc into the protective envelope, then place it on a flat desk top. Subsequently, place a flat board e.g. glass plate on the disc, and load it with about 4 ~ 5 kgs (about 10 lbs). If it is left in this state for one day, sometimes the warp will be alleviated. <div style="text-align: center;">  <p>Heavy books about 4 ~ 5 kgs (10 lbs)</p> <p>LD disc</p> <p>Glass plate</p> <p>Glass plate</p> <p>Protective envelope</p> </div>
8. Sound is unnatural or distorted.	<ul style="list-style-type: none"> CX system is turned ON for disc which has no  mark. 	<ul style="list-style-type: none"> Press D/A/CX to turn CX system OFF.
9. No sound output during playback.	<ul style="list-style-type: none"> STEP playback is being performed. Sound is output only during the normal play mode. The audio signals are not output during other playback modes. 	<ul style="list-style-type: none"> Press PLAY/SEARCH ► or ►/ to set the player to normal play mode.
10. During STILL playback, a part of the screen image shakes.	<p style="text-align: center;">_____</p>	<ul style="list-style-type: none"> Even if the disc is a standard play disc, there may be some cases in which a fully still image cannot be obtained, but this does not mean that the player or the disc is defective.
11. CHAPTER SKIP, CHAPTER PROGRAM PLAY and CHAPTERNUMBERSEARCH cannot be performed.	<ul style="list-style-type: none"> Disc in which no chapter numbers are recorded is loaded. 	<ul style="list-style-type: none"> Press DISP to check if chapter number is displayed.
12. Certain discs take too long to search or are not searched.	<ul style="list-style-type: none"> It takes time to read the recorded code, depending on the disc. 	<ul style="list-style-type: none"> Press CLEAR and picture will appear. (At this point, a slightly different scene from that which has been searched for may appear.)

SYMPTOM	CAUSE	REMEDY
13. Certain discs take too long to start or do not start.	<ul style="list-style-type: none"> There are errors when the disc code is read (There is no damage to the unit). 	<ul style="list-style-type: none"> Press ■ and stop the playback. Press the PLAY/SEARCH or ▶/ and start the playback again. (Repeat this operation a few times.)
14. Picture other than instructed is searched in TIME NUMBER SEARCH mode.	<ul style="list-style-type: none"> Method of inputting numerals in the TIME NUMBER SEARCH mode differs, depending on whether time number is recorded on disc in hours and minutes or minutes and seconds, as shown below: [e.g.] 12-minute search Disc in which time number is recorded in hours and minutes <div style="text-align: center;"> </div> <ul style="list-style-type: none"> Disc in which time number is recorded in minutes and seconds <div style="text-align: center;"> </div>	

WHEN PLAYING BACK A COMPACT DISC

SYMPTOM	CAUSE	REMEDY
15. Player stops immediately after playback is started.	<ul style="list-style-type: none"> Disc is loaded upside down (CD, CDV, one sided LD discs). The playing surface of the disc is dirty. Disc is not properly set on the disc table. 	<ul style="list-style-type: none"> Load the disc correctly with the label side upward. Use a soft cloth and lightly wipe off the dirt from the surface of the disc. If necessary, moisten a cloth with diluted neutral detergent to remove heavy dirt or fingerprints. Set the disc properly.
16. No sound output	<ul style="list-style-type: none"> The stereo amplifier is not correctly connected. You are not operating the stereo amplifier correctly. The connection terminals and/or the plugs of the connection cords are dirty. The plugs of the connection cords are disconnected, or are not fully pushed in. The player is in pause mode. 	<ul style="list-style-type: none"> Connect the amplifier correctly. Refer to the operating instructions for the amplifier, and operate the amplifier correctly. Clean the plugs and terminals and connect again. Make sure that connections are made correctly. Press ▶/ and restore the player to play mode.
17. Sound is distorted.	<ul style="list-style-type: none"> The audio output jacks are connected to the PHONO jacks. The connection terminals and/or the plugs of the connection cords are dirty. The plugs of the connection cords are not fully pushed in. The surround function is activated. 	<ul style="list-style-type: none"> Connect to the AUX, CD, VDP or LD jacks. Clean the plugs and terminals and connect again. Push the plug in firmly. Set SURROUND to OFF.

TROUBLESHOOTING

WHEN PLAYING KARAOKE

SYMPTOM	CAUSE	REMEDY
18. The volume level of the original vocal is not reduced even when ONE-TOUCH KARAOKE is pressed.	<ul style="list-style-type: none"> The AUDIO MODE button is not set to the appropriate audio mode with a CD or CDV. 	<ul style="list-style-type: none"> Press AUDIO MODE so that the STEREO indicator lights on the display window and then press ONE-TOUCH KARAOKE.
19. The original vocals cannot be heard with a sound multiplexed LaserKaraoke disc.	<ul style="list-style-type: none"> The ONE-TOUCH KARAOKE button is turned on. The BALANCE control is set to the MUSIC side. 	<ul style="list-style-type: none"> Turn ONE-TOUCH KARAOKE off. Set it to the VOCAL side.
20. The next song starts playback after one song is finished.	<ul style="list-style-type: none"> When playback is started with ►/ (or PLAY/SEARCH) or resumed with ►/ (or PAUSE), the player is always in playback mode even when one song is finished. 	<ul style="list-style-type: none"> Select the song with DIRECT MUSIC SEARCH.
21. No sound output.	<ul style="list-style-type: none"> AUX mode is selected. 	<ul style="list-style-type: none"> Press AUX INPUT so that AUX INPUT indicator goes off.
22. KEY CONTROL does not function.	<ul style="list-style-type: none"> Microphones are not connected. 	<ul style="list-style-type: none"> Connect a microphone to the MIC.

SPECIFICATIONS

1. General

System	LaserVision Disc system and Compact Disc digital audio system
Laser	Semiconductor laser wavelength 780 nm
Power requirements	
CLD-V740	AC 120 V, 60 Hz
CLD-1720K	AC 110/120~127/220/240 V (Switchable), 50/60 Hz
Power consumption	
CLD-V740	42 W
CLD-1720K	42 W
Weight	7.5 kg (16 lbs 7 oz)
Dimensions	420 (W) x 392 (D) x 122 (H) mm 16-9/16 (W) x 15-7/16 (D) x 4-13/16 (H) in
Operating temperature	+5°C ~ +35°C (41°F - 95°F)
Operating humidity	5% ~ 85% (There should be no condensation of moisture.)

2. Disc

LaserVision Discs

*Maximum playing times	
12-inch standard play disc	1 hour/both sides
12-inch extended play disc	2 hours/both sides
8-inch standard play disc	28 min/both sides 14 min/one side
8-inch extended play disc	40 min/both sides 20 min/one side
Spindle motor speed	
Standard play disc	1,800 rpm
Extended play disc	1,800 rpm (inner circumference) to 600 rpm (outer circumference) (For a 12-inch disc)

Compact Discs

DISC	Diameter: 5-inch, 3-inch, Thickness: 1.2 mm
Rotation direction (pickup side)	Counterclockwise
Linear speed	1.2 ~ 1.4m/sec
*Maximum playing time	74 min. 5-inch discs 20 min. 3-inch discs (For stereo playback)

Compact Discs with Video

Disc	Diameter: 5-inch, Thickness: 1.2 mm
Rotation direction (pickup side)	Counterclockwise
Linear speed	Audio portion: 1.2 ~ 1.4m/sec Video portion: 11 ~ 12m/sec
*Maximum playing time	Video portion: 5 min. (CLV) Audio portion: 20 min. (Digital)

* Actual playback time differs for each disc.

3. Video characteristics (two pairs)

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

4. Audio characteristics (two pairs)

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

5. Other Terminals

Microphone input	2
MIC control input	miniature jack
Headphones output	1
Control input/output	Both miniature jacks
VHF adapter output (Video/Audio)	Both RCA jacks with DC jack

6. Accessories

Remote control unit (CU-CLD046)	1
Size "AAA" (IEC R03) dry cell batteries	2
Video cord	1
Audio cord	1
Operating instructions	1
Warranty card	1


SPECIFICATIONS

7. Functions

Remote control unit operations (CU-CLD046)

	Function	Standard play Disc (CAV)	Extended play Disc (CLV)	Compact Disc with Video	Compact Disc
Basic Functions	Pause	YES	YES	YES	YES
	Stop	YES	YES	YES	YES
	Eject	YES	YES	YES	YES
Search	Fast forward (forward and reverse)	YES	YES	YES	YES
	Chapter/Track skip	YES	YES	YES	YES
	Direct chapter/Track number search	YES	YES	YES	YES
	Frame number search	YES	NO	NO	NO
	Time number search	NO	YES	YES	YES
	Absolute time search	NO	NO	NO	YES
Program	Chapter/Track program play	YES	YES	YES	YES
	Program correction	YES	YES	YES	YES
Repeat	Chapter/Track repeat	YES	YES	YES	YES
	One-side repeat	YES	YES	YES	YES
	Program repeat	YES	YES	YES	YES
Trick play	Still/Step	YES	NO	NO	NO
Time display	Elapsed time display	NO	YES	YES	YES
	Absolute time display	YES*1	NO	NO	YES
	Remaining track time display	NO	NO	YES	YES
	Remaining total time display	YES*1	YES*1	YES	YES
	Total number of selections, total time display	YES*1	YES*1	YES	YES
Others	CX system ON/OFF	YES*2	YES*2	NO	NO
	AUTO DIGITAL/ANALOG switch	YES*3	YES*3	NO	NO
	Audio channel selection (Stereo, 1/L, 2/R)	YES*4	YES*4	YES*4	YES*4
	Intro Scan	YES	YES	YES	YES

*1 Only discs with TOC

*2 Valid for analog audio playing a disc with the  mark.

*3 Can only be used with discs with digital audio tracks.

*4 Only NORMAL mode

NOTE:

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

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan.

PIONEER ELECTRONICS [USA] INC. 2265 East 220th Street, Long Beach, California 90810, U.S.A.

P.O. BOX 1720, Long Beach, California 90801, U.S.A.

PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2, Canada

PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium, TEL: 03/750.05.11

PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia, TEL: (03) 580-9911